

Remote Connections & Passwords. Everywhere!





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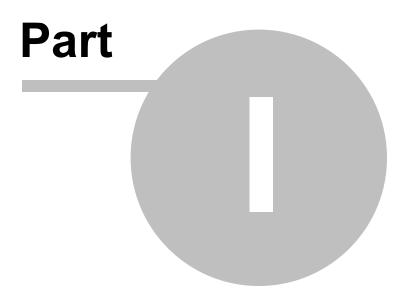
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Remote Desktop Manager

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Overview



1 Overview

1.1 Remote Desktop Manager

DESCRIPTION

Remote Desktop Manager is an application that integrates a comprehensive set of tools and managers to meet the needs of any IT team. It is designed to centralize remote connection technologies, credentials, and secure the access to these resources. Most connections are established using either an external library or third-party software.

Remote Desktop Manager is compatible with several relevant tools and technologies, including: Apple Remote Desktop, Citrix, Dameware, FTP, Hyper-V, LogMeln, Radmin, RDP (Microsoft Remote Desktop), SSH Port Forward, SSH Shell, TeamViewer, Telnet, Remote Desktop Services, VMware, VNC, SCP, Wayk Bastion, X Windows, and more!

THE REMOTE DESKTOP MANAGER ECOSYSTEM

Remote Desktop Manager is available in two editions:

Free	For individuals only, no information can be shared with colleagues. The most popular remote access technologies are supported, and passwords can be stored securely.
Enterprise	Used by teams, this edition offers user permissions, user groups, advanced logging, etc. Typically uses a Database Management System (DBMS) for storing the information and sharing it according to your security requirements. Devolutions also offers two specialized services for either Cloud-Based storage, or to get full Active Directory Integration.

Remote Desktop Manager is also offered on multiple platforms, as seen below.



Purchasing an Enterprise license grants the right to use ALL the various client applications.

You must use a desktop application to create a team data source. This explains why the mobile applications are free. They do allow for simple usage by an individual much like the Free Edition, but they can only **use**, not **manage**, a Team data source.

Windows	0	•
macOS	0	0
iOS		✓ (Free App)
Android		✓ (Free App)

1.2 Security

DESCRIPTION

All passwords stored in the data sources are encrypted using a strong encryption algorithm, to the extent that if a user attempts to access the data directly in the database, it will be considered unreadable.

If you choose to store passwords locally, Remote Desktop Manager will use the same mechanism used by mstsc.exe (Remote Desktop Manager client), which stores the passwords in the Windows Credential Manager. It must be noted that the password will

not be able to be viewed due to being encrypted by Windows. For obvious reasons, this choice also means that credentials stored in this fashion are not shared. Please refer to Windows Credential Manager for more information.

U.S. FEDERAL GOVERNMENT APPROVED ENCRYPTION

Our application integrates an Advanced Encryption Standard (AES) algorithm to protect sensitive data in the database.

This cipher is proven to be very secure. AES/Rijndael became effective as a U.S. Federal government standard and is approved by the National Security Agency (NSA) for top secret information.

TIPS

Encryption of data while in transit is offered natively by our cloud services. Whenever you decide to use an on-premise solution, encryption of data in transit must be implemented by using the tools involving your chosen technologies. Most customers with security concerns choose one of the supported <u>Advanced Data Sources</u>. Follow instructions specific to the chosen solution.

The encryption key is *built-in* the application and is therefore the same for *all* copies of the software in circulation. It is *imperative* that you follow our recommended steps and apply a <u>Security Provider</u> to encrypt not only the passwords, but also *all connection data* stored in the data source. This will provide protection over your data at rest, using a key under your **exclusive** control.

We recommend you follow these steps to ensure security:

- Use an Advanced Data Source and grant user access by assigning permissions.
- Use encrypted communication with the database when available.
- Use the <u>Data Source Settings (System Settings</u>) to control settings impacting security.
- Use the <u>Security Provider</u> to encrypt entries completely instead of just the password.

12 Remote Desktop Manager

- If using the offline mode, add your own password to add an additional layer of protection to the local cache. Go to *File Options Security*.
- Require a password to launch the application, and even better: require two factor authentication. *File Options Security*.
- If your data source supports it, choose not to save password in the data source, which will prompt for the credentials on the first connection.
- Use our policies to enforce some of these settings at the system level.

1.3 System Requirements

DESCRIPTION

Remote Desktop Manager requires the following prior to installation:

MINIMUM REQUIREMENTS

Windows Desktop:

- Windows 10
 - Version 1607, 1703, 1709, 1803, 1809, 1903 and 1909
- 8.1
- 7 SP1

Windows Server:

- Windows Server 2019
 - Version 1709, 1803 and 1809
- 2016
- 2012 R2
- 2012
- 2008 R2 SP1

Microsoft .NET Framework 4.7.2

1 GHz or faster processor

512MB RAM

1024 x 768 screen resolution

500+ MB hard drive space

64-BIT SUPPORT

Remote Desktop Manager is compatible with all 64-bit versions of Windows.

REMOTE DESKTOP SERVICES AND THIN CLIENT SUPPORT

Remote Desktop Manager can be installed on <u>Remote Desktop Services</u> and thin client.

MANUAL/PORTABLE DEPLOYMENT

Deploying manually using our zip file is documented as being a <u>Portable (USB)</u> deployment. In this case, the prerequisites will need to be handled manually as well. Please consult <u>Prerequisite Software</u> for details.

1.3.1 Prerequisite Software

DESCRIPTION

Specific prerequisite software need to be installed on your computer prior to running Remote Desktop Manager.



These are managed automatically by our installers. The only situations where one would perform a manual installation of the prerequisite software is when the zip archive is used for deployment or if there is no internet connection.

SETTINGS

The following package must be installed prior to proceeding with the Remote Desktop Manager installation:

• Microsoft .NET Framework 4.7.2.

1.4 The Devolutions Platform

DESCRIPTION

Our platform offers multiple products to help in managing all of aspects of an IT infrastructure.

The flagship product is Remote Desktop Manager, the strongest edition admittedly being for the Windows operating system.

Remote Desktop Manager (RDM)	Application used to manage and centralize remote access technologies, passwords, documents and shared information.	Windows, macOS, iOS, Android
<u>Remote Desktop</u> <u>Manager Agent</u>	Tool used to run commands on remote systems. It listens for commands from a master Remote Desktop Manager. It resolves a lot of issues brought on by remote management, in particular removing the need to use Microsoft's WinRM and managing lists of <i>TrustedHosts</i> .	Windows
<u>Remote Desktop</u> <u>Manager Jump</u>	Feature that uses the Remote Desktop Manager Agent to launch any of our supported technologies on a remote Windows Host. It transforms it in what is called alternatively a Jump Server, or Bastion Server, or Service Host.	Windows

<u>Devolutions Server</u> (DVLS)	Enterprise Grade data store for creating a centralized database for your team. Integrates with AD to drastically reduce time spent on managing permissions. It is installed on-premises and offers many advanced features.	Windows
Devolutions Web Login (DWL)	Web browser extension technology that interacts with our Remote Desktop Manager and Password Vault Manager desktop applications to obtain credentials and automatically fill authentication fields in your browser.	Windows, macOS

1.4.1 Remote Desktop Manager Agent

DESCRIPTION



Please note that if your Windows profile is corrupted, Remote Desktop Manager Agent and Remote Desktop Manager Jump might not work.

The Remote Desktop Manager Agent can run commands on remote hosts, but what is really useful is that it can send commands to multiple hosts at the same time. Since Remote Desktop Manager uses a secure RDP channel to communicate with the Remote Desktop Manager Agent, it can only operate against Windows-based hosts.

It supports both environment and Remote Desktop Manager variables. Remote Desktop Manager variables (i.e. \$HOST\$, basically all the ones surrounded by dollar signs) are resolved on the client against the running session, while environment variables (i.e. %windir%, basically all the ones surrounded by percent signs) will be resolved on the remote host at execution time. You can use Remote Desktop Manager variables while running file based scripts (.ps1) within the command. The file based script variables (.ps1) will be resolved prior to sending the script to the destination host.

+ 🖉 🗢	Quick C	onnect <host:< th=""><th>></th><th>• ··· 🚱 🛛</th><th>🖌 🖻 👘</th><th></th><th></th><th></th><th></th><th>Remote Desk</th></host:<>	>	• ··· 🚱 🛛	🖌 🖻 👘					Remote Desk
le Home	Edit Vie	w Adminis	stration Too	ls Window	Help					
assword enerator	SSH Key Generato Certificate Genera Port Generator erators		My Inventory		PowerShell RDM CmdLet)	Wayk Now More	Tools Add-on Manager	0	cript/Tool Manage ion Manager	r
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Certificate	Chocolatey	Command	Computer	Control Panel			FlashFXP			Internet
Certificate Manager	Chocolatey Console	Command Prompt	Computer Management	Control Panel Control Panel Performance Monitor	Manager		FlashFXP FlashFXP Proxy Networks	Editor		Internet Informatio

RDM Agent

SCENARIOS

The Remote Desktop Manager Agent can be used to run scripts from another Remote Desktop Manager installation. Since it uses an RDP channel for communication, it saves you from remote management headaches such as opening various ports in your firewall. This requires the lightweight installation model of just the agent package (Methods 2-4 below).

It is also used by <u>Remote Desktop Manager Jump</u> for supporting many technologies. However, it does require a full Remote Desktop Manager installation on the remote host for those features.

INSTALLATION

Installing Remote Desktop Manager Agent on a remote host can be achieved in 4 different ways:

The Remote Desktop Manager Agent must be configured to automatically start when a Windows session is established. Method 1 below performs that automatically, but in other cases, you must configure this manually using Windows features (*startup* folder or *Run* registry key). Please consult the documentation of your operating system for details.

- 1. Install Remote Desktop Manager and select Tools More Tools RDM Agent. It will launch and auto-register the Agent to automatically start with Windows.
- Download Remote Desktop Manager Agent from <u>https://remotedesktopmanager.com/Home/Download</u>, and install the agent on the remote computer.
- Copy the files Devolutions.Utils.dll, Devolutions.Windows.Utils.dll and RDMAgent.exe from the installation folder of the Remote Desktop Manager version that is used by your team, or download the zip file containing those files at <u>https://remotedesktopmanager.com/Home/Download</u> and deploy them on the remote host in the folder of your choice.
- 4. Via Chocolatey at https://chocolatey.org/packages/rdmagent.



Chocolatey command line

Many new users using this technology wonder why a full installation of Remote Desktop Manager is required. There are three factors that make this a good solution:

- Remote Desktop Manager on the remote host does not require a data source, it's an empty shell.
- The logging of the activity is brought back to your data source.
- Every technology supported by Remote Desktop Manager can be used remotely.

1.4.2 Remote Desktop Manager Jump

DESCRIPTION

Remote Desktop Manager Jump connects to a remote host, often called a **Jump Box**, **Service Host**, **or a Bastion Server**, which in turn connects to other hosts.

This can be compared to RD Gateway from Microsoft and to some extent SSH port forwarding.

The Jump is performed through Remote Desktop Manager Agent. The Agent needs to be **CURRENTLY EXECUTING** in a Windows Session on the remote host, or set to automatically start upon login. We have decided NOT to have this available through a service at this time.



Remote Desktop Manager must be installed on the jump host for the agent to be able to run commands. The application does not have to connect to any data source, as Remote Desktop Manager only serves as a shell for the agent to run commands.

HOW DOES IT WORK?



Both instances of Remote Desktop Manager Jump or Remote Desktop Manager and RDM Agent running on the Jump Host communicate through an RDP channel. Commands are sent securely over the RDP channel and are then executed on the **Service Host**. Commands include running a script or opening a remote session of any type. It can even launch a VPN client on the **Service Host** prior to running the remote session.

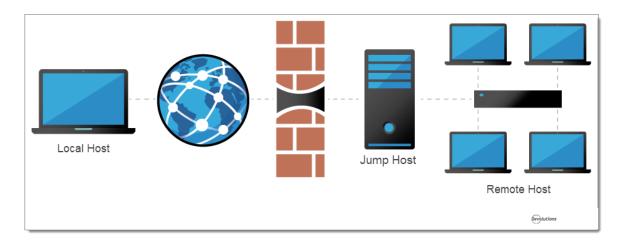
Please consult the Configure Remote Desktop Manager Jump topic.

USAGE SCENARIOS

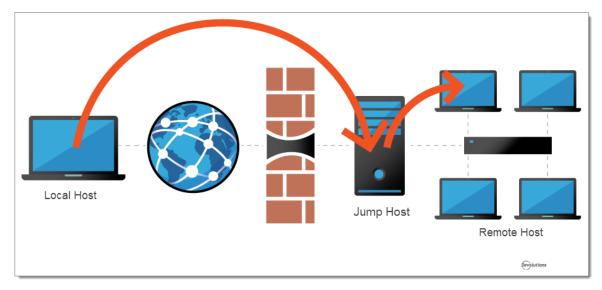
There are two targeted scenarios:

1. ACCESSING A SECURE NETWORK THROUGH A SINGLE HOST

This allows you to have a strict firewall policy that allows connections only from a specific IP address. This configuration only grants you access to hosts that are accessible from the Jump Box. Let's imagine you have the following infrastructure:



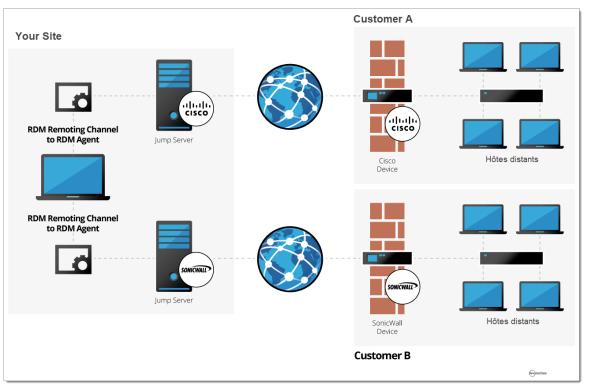
You need to access the remote hosts, but you want to limit risks and expose only the jump host to the internet traffic. This allows you to create strict firewall rules and to open only a single port. Therefore, it forces you to connect to the jump host before hopping to a remote host.



Remote Desktop Manager Jump helps achieve that goal simply and efficiently.

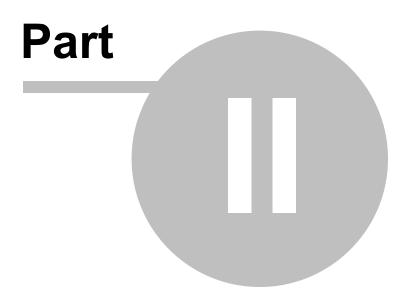
2. WORKAROUND LIMITATIONS OF SOME VPN CLIENTS

These limitations make it impossible to use multiple VPN clients concurrently on the same workstation. In this case, you can have multiple virtual machines, each running a single VPN client. Using these virtual machines as jump boxes allows you to connect to the virtual machine, launch the VPN client, then launch the remote session.



Remote Desktop Manager Jump to handle incompatible VPN clients

Getting Started



2 Getting Started

2.1 Using Remote Desktop Manager

DESCRIPTION

Remote Desktop Manager is highly flexible and can work for both individuals and teams. Please follow the checklist that applies to your environment:

- <u>Checklist for Individuals</u>: For individuals but also for teams of three users or less that do not want to implement security.
- Checklist for Teams: For a team environment that wishes to implement security.

2.2 Checklist for Individuals

DESCRIPTION

Here's a checklist to help you get started with Remote Desktop Manager for individuals.

Step 1 - Register	Remote Desktop Manager Enterprise Edition grants you
your license:	a 30 day trial. If you decide not to register by the end of
• <u>Enterprise</u>	the 30 day trial, your data will not be altered or erased,
<u>Registration</u>	and you will have full access to it once you provide a
• <u>Trial</u>	license key.
<u>Registration</u>	Here is a video link to assist you:

Step 2 - Add your Data Source and set up your Devolutions account and a master key.	Warning: When choosing any data source type that is not on-premises, you need to think about the safety of the data at rest and during transport. We strongly recommend that you further encrypt your data by applying a master key for file-based solutions, or a <u>Security Provider</u> for <u>Advanced Data Sources</u> . This ensures only you can read the data. Upon first launch, Remote Desktop Manager uses a local SQLite data source. For help selecting a data source tailored to your needs, please see <u>Choosing your data</u> <u>source (Individuals)</u> . Here is a video link to assist you: <u>Watch Video</u>
Step 3 - Set up your Devolutions Online Backup .	The <u>Online Backup</u> allows you to securely backup your information for selected data sources. The backup is automatically executed 30 seconds after any modifications made to the data source content. It is best practice to always back up your data source. Here is a video link to assist you: <u>Watch Video</u>
Step 4 - Create your <u>Default</u> <u>Settings</u> .	In <i>File - Options</i> you can set options for Remote Desktop Manager and create default settings Templates. Each entry type is supported and can have a default template defined to fit your requirements. Here is a video link to assist you:
Step 5 - Create your folder structure	Top level folders are at the foundation of a solid security structure. Your folder structure (Folder entries) should represent your company structure.

	Here is a video link to assist you: 🜔 Watch Video
Step 6 - <u>Import</u> <u>your Data</u> .	The final step is to Import all of your data into Remote Desktop Manager. You can import your sessions, logins and contacts in a few easy steps. Here is a video link to assist you:

2.2.1 Select the Data Source type - Individuals

DESCRIPTION

This topic is for individuals.

To help you select a data source, here is a set of concerns and the list of data sources that can serve in such context. If you have multiple concerns, simply create the intersection of all sets to isolate a list of choices.



When choosing any data source type that is not **on-premises**, you need to think about the safety of the data at rest and during transport. We strongly recommend that you further encrypt your data by applying a master key for file-based solutions, or a <u>Security Provider</u> for <u>Advanced Data Sources</u>. This ensures **only you** can read the data.

Devolutions Password Hub Personal			Х			
SQLite	х				х	
XML	х				х	
Devolutions Online Drive			Х	Х	х	
Dropbox			х	х		Note 1
FTP, SFTP		x		х		Note 1
WebDav		х		Note 2		Note 2
Devolutions Online Database - Basic			Х	Х	Х	3 users

NOTES

NOTE 1

There is no protection in the case of data contention issues. The last one saving the file will win! This is for **single** users with **multiple** computers, **not for multiple users** using the data concurrently.

NOTE 2

The master XML is maintained by a single user and synchronized to a web site that is hosted as per your requirements. Accessing the data through a URL ensures it is read-only for other users.

2.3 Checklist for Teams

DESCRIPTION

Here's a checklist to help you get started with Remote Desktop Manager when working in a team environment.

Step 1 - Register your license: • <u>Enterprise</u> <u>Registration</u> • <u>Trial</u> <u>Registration</u>	Remote Desktop Manager Enterprise Edition grants you a 30 day trial. If you decide not to register by the end of the 30 day trial, your data will not be altered or erased, and you will have full access to it once you provide a license key.
Step 2 - Add your <u>Data</u> <u>Source</u> (for teams).	Warning: When choosing any data source type that is not on-premises, you need to think about the safety of the data at rest and during transport. We strongly recommend that you further encrypt your data by applying a master key for file-based solutions, or a <u>Security Provider</u> for <u>Advanced Data Sources</u> . This ensures only you can read the data. Upon first launch, Remote Desktop Manager uses a local SQLite data source. For help selecting a data source tailored to your needs, please see <u>Choosing your data</u> <u>source (Teams)</u> .

	DESCRIPTION
 Step 3 - Select your <u>Security</u> <u>Provider</u> .	Select your Security Provider before importing or creating any data in your database so nobody can read your entry configuration data, even when people have a direct access to your database.
Step 4 - Create your folder structure.	Top level folders are at the foundation of a solid security structure. Your folder structure (Folder entries) should represent your company structure. For example, you can create a folder for your Production team, one for your Staging team and one for your Testing team. Here is a video link to assist you:
Step 5 - Create your <u>Default</u> <u>Settings</u> .	In <i>File - Options</i> you can set options for Remote Desktop Manager and create default settings Templates. Each entry type is supported and can have a default template defined to fit your requirements. After you configure the options, use the <u>Custom Installer</u> to share the pre-configured version with your team.
Step 6 - Create <u>Users</u> .	Remote Desktop Manager supports advanced User Management. User accounts must be created manually by an administrator of the database.
Step 7 - Create <u>User Groups</u> .	Create User Groups to easily manage your security system. You can then assign users to User Groups, making it easy to grant permissions to a set of users instead of having to manage permissions individually.
Step 8 - Create <u>Entries</u> .	An Entry is how you save information about your sessions (e.g. RDP, SSH connections), credentials, websites, VPNs, Synchronizers and documents.
Step 9 - <u>Grant</u> <u>Permissions</u> .	Once your users are created you can then grant Permissions for user group-based access control. The permissions granted on the folder can be inherited by each entry set under that folder.

o 10 - <u>Import</u> <u>· Data</u> .	The final step is to Import all of your data into Remote Desktop Manager. You can import your sessions, logins and contacts in a few easy steps.

2.3.1 Select the Data Source type - Teams

DESCRIPTION

This topic is for teams that need the functionality offered by our Enterprise Edition.



When choosing any data source type that is not **on-premises**, you need to think about the safety of the data both at **rest** and during **transport**. We strongly recommend that you further encrypt your data by applying a master key for file-based solutions, or a <u>Security</u> <u>Provider</u> for <u>Advanced Data Sources</u>. This ensures **only you** can read the data.

To help you select a data source, here is a set of concerns and the list of data sources that can serve in such context. If you have multiple concerns, simply create the intersection of all sets to isolate a list of choices.

The database is not accessible to end users	Х	Note 1 & 2	Note 1	Note 1	Note 1	Note 1
AD accounts used for	х	х				

authentication						
AD group membership used to assign permissions	Х					
The data is stored on- premises	х	Х		х		
Activity Logs	Х	х	Х	Х		х
Data accessible globally	Note 3	Note 4	х	Note 4	х	х
Optional local cache of connections	Х	Х	Х	Х	х	Х

NOTES

NOTE 1

The administrators can create accounts for end users without divulging the passwords. A locked data source definition is imported for each end user. This obviously requires a lot of manual operations by the administrator.

NOTE 2

Integrated Security is the name of a Microsoft technology that does not sends credentials to get access to a SQL Server instance, but rather the token resulting from authentication in your Windows computer. This therefore allows the users to connect directly to the database using other tools. It should not be used if you need to prevent direct access to the database.

Our SQL Server data source offers a third option, namely the Custom (Devolutions) user type. It allows for the user to be impersonated and therefore not be made aware of the credentials used to connect to the database. Please consult <u>User Management</u> for details.

NOTE 3

You should not expose a Devolutions Server instance to the Internet without being able to protect it from DDoS attacks. Strong passwords must be used as well as obscure account names that are not easily inferred using social data mining.

NOTE 4

You can indeed expose a database to the Internet, but you must use SSL/TLS to encrypt traffic, you must ALSO protect against DDoS attacks. Cloud services, like Azure or Amazon Web Services, have that concern in the forefront. The default settings of the firewall should be to block everything, you will then open only the most limited set of ports, while filtering on a short list of acceptable origins for requests.

2.3.2 Set up a team folder for default settings

DESCRIPTION

You must create a team folder on a server drive to store your default settings templates in order to share them with your team.

SETTINGS

1. Start by accessing your server drive (such as \\servercommon) and create a new team folder to hold all your team default settings templates.

💻 🛃 🔚 🗢 dc.windjammer.loc		- 0	×	
File Home Share View				
\leftarrow \rightarrow \checkmark \uparrow \blacksquare > Network >	dc.windjammer.loc v 🖸 Search dc.w	/indjammer.loc	Q	
 Documents Downloads Pictures 	TeamShare			
1 item 1 item selected			:== E	

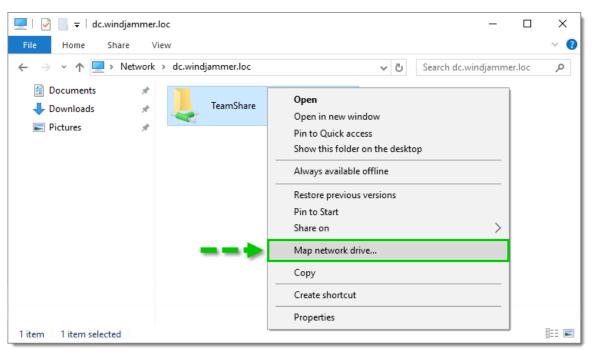
Server Drive - Team Folder

2. Go to *File - Options - Path* and enter the path of your newly created folder stored on your server drive. All your default templates will then automatically be saved in that folder.

\bigotimes		Remote Desktop Manager [Dashboard]
😭 Go Offine	Remote Desktop Manager	D X
☐ Lock Application	✓ General Application Start	Application Installation Path
🏹 My Data Source Information	Application Close Notification	Configure Installation Path
Cloud Account	Proxy (Web) Custom Variables > User Interface	
🔁 Refresh	> Types Reports	Other
🧯 Data Sources	Browser Extensions Key Agent	Screenshot
ঞ্জ Background Services	Key Agent Security > Tools Path Cloud > Advanced	Application log
指 My Account Settings		Default Templates
🔒 Change Password		Default Add-on path
🖧 Import		
Export	Import Options	
🗄 Templates	Export Options	
		Search property P
] Exit		

File - Options - Path

3. If you have remote workers, ensure they have access to the shared server in offline mode. Map your network drive and then follow the instructions <u>here</u> for the offline mode access when using Windows 10.



Map Network Drive

2.4 Creating an Entry

DESCRIPTION

When getting started with Remote Desktop Manager, you must configure your entries. There are many types of entries; you should know what third party or technology you will use in order to choose the appropriate entry type(s) that you plan on configuring.

CREATING AN ENTRY FROM THE CONTEXT MENU

On the main application window, simply right-click on **the name of the data source** and select **Add** from the menu. To initialize a new session, you can specify either the type of session, or a template. You will be prompted to customize your settings in the entry properties window.

Navigation		Ψ×	🚳 Dashbo	pard						
SQL Serv - Admin		÷ …	Actions	Entries						
Name				Lindico						
🗸 🚋 SQL Serv - Admin			Actions							
🗸 🔓 Enterprise	•	Execute Script Via Agent								
> Contact	+	New Entry Ins				~	Detector			
> Credentials		Add				•	_	Add Session		Ctrl+N
> Document		Edit •				Add Folder	lder	Ctrl+Shift+N		
> InfoTypes	ŵ				Add V	Add Website				
> 🧰 Macro	×	Delete S	Delete Selection (99 Entries) Ctrl+Del			i ii	Add Informati	on	Ctrl+Alt+N	
> Sessions	Ξ	Play List			۹	Add Credentia	l Entry	Alt+Shift+N		
> Synchronizer						•	*	Add Contact		
> Mac Entries		Macros/Scripts/Tools		í	Add Documen	t				
		View			۲	4	Add Macro/Scr		pt/Tool	
		Import		•		۲	\$	Import from		
		Export			+		_	-		
	5	Expand	All		Ctrl +		7	*	5	<u> </u>
	5	Collaps	e All		Ctrl -				14	
	ø	Propert	ies				Va	aults I	Roles	Root Settings

Adding a new entry

CREATING AN ENTRY WITH DRAG & DROP

You can also create a session by dragging and dropping an .rdp file in the main application window. By doing so, Remote Desktop Manager will ask you whether to import the content and create a new session, or create a session linked to the .rdp file. It is also possible to drag and drop the **LogMeIn** desktop shortcut to create a **LogMeIn** session.

It is possible that drag and drop will not work because of your security settings. They may prevent applications running in different contexts from interacting. For example, if Remote Desktop Manager is running in an elevated context (administrator mode) and Internet Explorer is running in default mode, Windows will not allow you to drag a URL link in the application.

CREATING AN ENTRY BY IMPORTING ITS CONFIGURATION

You can also import entries by using the <u>Import Computer Wizard</u>, or by importing its configuration directly from any compatible applications supported by our import tools. You can learn more in the <u>Import</u> section.

2.5 Managing Credentials

DESCRIPTION

Depending on your organization's security policies, there are multiple ways of handling credentials. We can manage a wide range of scenarios, the most popular are listed below. It is critical to understand that these are the credentials used to connect to **remote hosts**, not the ones you use to launching **Remote Desktop Manager**.



Most of these selections do not exist in the **Free** edition of Remote Desktop Manager as they depend on features offered by an **Advanced Data Source**.

A few key points that the admin of the solution must be aware of:

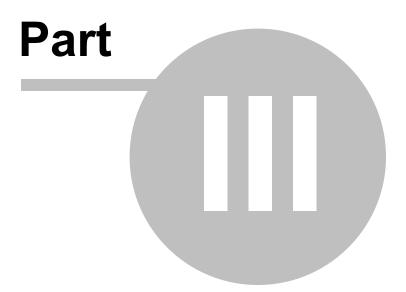
Password visibility	You can store passwords in a Credential entry (Username / Password entry, which (by default) makes the password USABLE , but not VISIBLE , by the end user. We provide multiple Credential entry types, you should always consider carefully which type you are using based on your security and administrative needs.
Credentials set on folders	Our folders can have credentials defined. This is useful because in the great majority of cases, one reuses the same credentials for a whole branch of the network infrastructure. To make use of credentials defined in a folder, the child sessions must be adjusted to use Inherited Credentials .
Entry location	When storing entries in the tree view, users with the <i>View</i> permissions on that entry (or folder by inheritance) will be able to make use of them. This is how you would share credentials with other members of your team. A <u>User Vault</u> exists for users to store user centric information that should be seen by no one else. Credentials stored this way can still be accessed in the Public area of the system by referencing them or through the User Specific Settings feature described below.

User Specific Settings are partial overrides for settings of your entries, most notably the Credentials. When applying such an override, one can choose the type in the credentials directly in the override or one can choose to instead link to credentials stored elsewhere, such as the User Vault.

Here are the most common scenarios and how to address them. In the majority of cases, we prefer to have sessions using **Inherited credentials**, meaning it climbs up the tree until it has access to a set of credentials, be it defined, linked, or overridden in an entry.

SCENARIO	STRATEGY
One set of credentials is used by all of the staff, be it for the whole system or for a branch in your tree view (Customer, Department, etc).	Set the credentials on the <u>Vault Settings</u> . All children use Inherited Credentials .
Each user has its own credentials for many different branches (often corresponds to customers/departments, etc).	Make use of the <u>User Specific Settings</u> on each branch. All children use Inherited Credentials .
Each user has its own credentials managed by an administrator.	This solution involves a little more work. The admin must create a folder for each user, then grant permissions ONLY to that user. The user will then use User Specific Settings to specify that the credentials stored in that folder is used to override what is defined in the entries.
Each team uses the same credentials.	Much like directly above, but all the members of the team have access to the folder. All of them must use the User Specific Settings .
Each user uses their domain account.	Have the sessions configured to use <u>My</u> <u>personal credentials</u> . Each user will be prompted to define them once per workstation that they use.

Installation



3 Installation

3.1 Client

Remote Desktop Manager can be downloaded as setup files, or as a binary compressed (zip) file.

INSTALLATION

Depending on the downloaded media, either run the setup, or extract the files from the archive in any folder and launch the executable. If you wish to use a portable device, or run multiple independent copies of the application, please consult <u>Portable (USB)</u>.

LICENSE

Remote Desktop Manager Enterprise Edition comes with a 30 day-trial. If you possess a purchased license of the Enterprise Edition, please follow the instructions at <u>Register</u> <u>Enterprise Edition</u>. To register the Free Edition, please refer to the <u>Register Free</u> <u>Edition</u>.

DATA SOURCE

By default, a local data source is created using the SQLite format. You can add as many data sources as needed. Please consult <u>Data Source Overview</u> for more information.

To use a SQL Server or SQL Azure data source, refer to the <u>Configure</u> <u>SQL Server</u> topic.

EXTERNAL APPLICATIONS

Configure your installation path for all external applications you intend to utilize such as RealVNC, Putty, Filezilla, etc. Set the paths in *File – Options – Path.*

REMOTE DESKTOP SERVICES

Please consult the <u>Remote Desktop Services</u> topic.

3.1.1 Ancillary Files

DESCRIPTION

Remote Desktop Manager generates ancillary files on your workstation. The table below lists out an example of ancillary files and their locations.

As described in <u>Configuration File Location</u>, the default path for most of these files are customizable. For this reason, we use the **[CONFIG]** token in this documentation to denote when a file is stored in a configuration folder that can be relocated, or the **[PROFILE]** token to indicate that they are stored in the local profile. By default, these point to the **same exact folder**. The only method to separate them is by using a customized configuration.

Since you can also deploy on a portable device, sometimes known as using the XCOPY deployment model, we will use the *[INSTALLDIR]* token to indicate that the file is in the same location as Remote Desktop Manager.

The **Override Source** column indicates if an available mechanism can relocate the files of that category elsewhere.

SUMMARY

Configuration File(s) (*.cfg, *.ext)	[CONFIG]	None
Data File(s) (*.xml, *.db)	[CONFIG] or custom path.	None
Default Settings	[CONFIG]	Data source settings (System Settings)

FILE(S)		OVERRIDE SOURCE
Layout Files (*.lyt)	[CONFIG]	None
Log Files (*.log, *.debug)	[CONFIG]	None
Offline/Cache data (offline.db)	[PROFILE] \[Datasource]	Use application directory for online cache will use instead [INSTALLDIR]
Local Play lists	[PROFILE] \[Datasource]\Playlists	Use application directory for local playlist will use instead [INSTALLDIR]
Local Templates	They are serialized directly in the configuration file of the application.	None
Themes	[CONFIG]	None

OFFLINE AND LOCAL PLAY LIST OPTION

Offline and local play list options can be accessed by navigating to *File - Options - Advanced*.

Remote Desktop Manager				×
 General User Interface Types Reports Browser Extensions Key Agent Security Tools Path Cloud Advanced 	Advanced Debug level (1 * Logs Other Options ************************************	Database		•
	Force "localhost" when using VPN dynamic port Image: Confirm on multiple sessions open if open count greater than Information	False •		_
Import Options	Created on 4/15/2019			
Export Options	Source: InstallDir			~
	Search property	Ск	Cano	el

Options - Advanced

3.1.2 Configuration File Location

DEFAULT LOCATION

Remote Desktop Manager saves its configuration in a file named RemoteDesktopManager.cfg. This file contains all of the application settings and configured data sources. All of the data source settings are encrypted for security reasons.

You can retrieve the installation folder of Remote Desktop Manager by clicking *File – Options – Advanced*. A hyperlink displays the installation folder.

🔲 Remote Desktop Manager			×
> General > User Interface	Advanced]
Types Types Reports Browser Extensions Key Agent Security Tools Path Cloud Advanced	Debug level 0 ÷ … Logs Database Other Options ^ Add folder in hierarchy during batch add ^ Allow multiple instances ^ Allow non upgraded data source ^ Allow no upgraded data source ^ Allow hide filter tree view ^ Auto hide filter tree view ^ Confirm on drag and drop move ^		
	Connection constructor Lazy loaded Offline engine Default - MCDF v2.0 Force "localhost" when using VPN dynamic port False ✓ Confirm on multiple sessions open if open count greater than 1 \$		
Import Options	Information Created on 4/12/2019 Source: LocalApplicationSEttings C: Users AppOata Local Devolutions RemoteDesktopManager		
	Search property CK	Can	cel

Options - Advanced

The configuration file can be located in different folders depending on certain conditions:

Installed under "Program Files" or "Program Files (x86)"	%LocalAppData%\Devolutions\RemoteDeskt
Application running on Terminal Server	<pre>%AppData% \Devolutions\RemoteDesktopManager. This is the roaming profile and avoids multi-user conflicts.</pre>
Other	Installation folder



Having the configuration file in the installation folder allows you to run multiple versions of the application side-by-side.

OVERRIDE THE DEFAULT PATH

There are two ways to change the folder where the configuration file is stored:

1. Create a file named **"Override.cfg"** in the application folder. Remote Desktop Manager opens this file and reads the first line. It should contain the desired installation folder (without the file name). If you wish to use the current installation path, put a period in the file. Here are a few examples:

c:\RDM	The config file is saved in the designated folder.
	The period is used to specify the Remote Desktop Manager installation folder.
%AppData% \Devolutions\RemoteDesktopMan ager	Specify the application roaming data folder.

2. By adding a key in the registry:

CurrentUser\SOFTWARE\RemoteDesktopManager, OptionPath. Set the desired path in the key OptionPath. You must not include the file name in the value, just the path.

DEFAULT CONFIGURATION FOR REMOTE DESKTOP SERVICES ENVIRONMENT

Please refer to <u>Remote Desktop Services</u> for details.

3.1.3 Custom Installer Service

DESCRIPTION



- Generate and download custom installation packages for Remote Desktop Manager.
- Include preconfigured data sources in the package for quick enterprise wide deployment.
- Insert license serial in the installation package for easier management.
- Download the installer as a Windows Installer (.MSI file) or as an executable (.EXE file).

The Custom Installer Service, offered through our Devolutions Customer Portal services, replicates the configuration from a Remote Desktop Manager instance. This configuration is used to create an installer file (*.rdi), which will be used to create the installation package intended for distribution. The configuration can contain the license serial, data sources, credentials, database templates and more. It is best practice to have a Remote Desktop Manager installation used specifically to create the installation package.

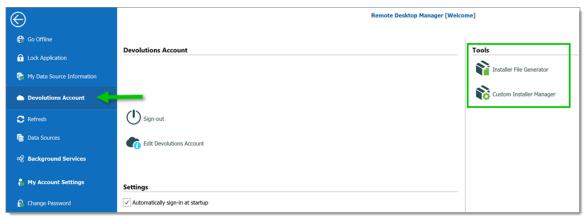


The Custom Installer Service uploads a configuration file to our online services. You should not use the service to redistribute passwords for data sources or an Online Database account.



Please note that you *MUST* create an installer file using Remote Desktop Manager before creating the installer on the Web portal. This is described here in the <u>Installer File Generator</u> topic.

The Custom Installer Service can be found in with the Devolutions Account tools, located in *File – Devolutions Account – Tools*. You must be signed in to access it.



File - Devolutions Account - Tools

The following topics will help you get started to set up your customized installers with Remote Desktop Manager.

- Create an Installation Package
- Installer File Generator
- Option Selection Dialog
- 3.1.3.1 Installer File Generator

DESCRIPTION

When creating an installation package with the Custom Installer Manager, an installer file is necessary to determine what to include in the installation configuration. It is risky to create an installer file for each new version since you have to repeat the process manually every time. Instead, it is possible to create the configuration once, save the resulting file (*.rdi), and reuse it as many times as needed.

CREATING AN INSTALLER FILE

1. Click on File – Devolutions Account – Installer File Generator.

\bigotimes	Remote Desktop Manager [Welcome]		
🚱 Go Offline			
1 Lock Application	Devolutions Account	Tools	
ig My Data Source Information		Installer File Generator	
Devolutions Account		Custom Installer Manager	
C Refresh	U Sign-out		
i Data Sources	Edit Devolutions Account		
୍ୟ Background Services			
🐞 My Account Settings	Settings		
🔒 Change Password	Automatically sign-in at startup		

File - Devolutions Account - Installer File Generator

2. Select which data sources to include. You can also include the name and serial key for the registration.

Remote Desktop Manager	- Installer file generator					×
📦 Installer file	generator					
Registration Information						
✓ Name						a
Email						3
🗸 Кеу	XXXXX-XXXXX-XXXXX-XXXXX-XXXX	x				
Proxy settings Saved Include data source credentia Data Source Type	Installation paths Saved ten	nplates	Devolutions Cloud cr	edentials		
Microsoft SQL Server	QA-LEX Duo					
Microsoft SQL Server	SQL Serv - Admin					
🗌 े Microsoft SQL Server	SQL Serv - UReg					
Select All	Unselect All					
				Generate	Close	2

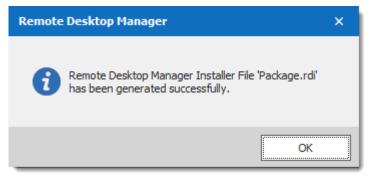
Installer File Generator

3. Click on Generate and save the file.

📮 Remote Desktop N	Nanager		×
$\leftrightarrow \rightarrow \uparrow \uparrow$	\ll Documents \Rightarrow Custom Installer Files $ \checkmark$	ප Search Custom	Installer Files 🔎
Organise 🔻 Ne	w folder		::: • ?
a OneDrive	▲ Name	Date modified	Туре
💻 This PC	Package.rdi	2017-04-19 11:22	RDI File
📃 Desktop			
🔮 Documents	v <		>
File name:	Package.rdi		~
Save as type:	Remote Desktop Manager Installer Files (*.rdi)		~
 Hide Folders 		Save	Cancel

Save the installer file

An information dialog is displayed when the file has been generated.



Package.rdi has been generated successfully

This file can be used in the Custom Installer Manager when creating an installation package.

For more information on how to create a custom installer package, please consult our <u>Custom Installer Manager</u> topic.

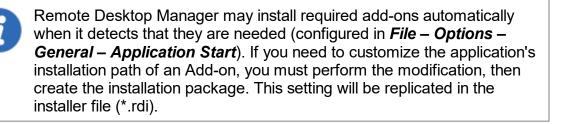
3.1.3.1.1 Option Selection Dialog

DESCRIPTION

When generating the installer file, you must decide what to include in the configuration. This process will replicate the configuration of the Remote Desktop Manager instance currently used, and will generate an installer file (*.rdi). Once it has been generated, the installer file can be used as many times as needed to create custom installers. For

security reasons, some settings that may contain credentials, such as **Saved Templates**, are disabled by default. Enable these at your own risk.

The same dialog is used for the Custom Installer Service and for exporting the Remote Desktop Manager configuration file. Some options must NOT be used for the Custom Installer Service to prevent sharing credentials that must stay confidential. Please read the documentation carefully.



SETTINGS

You can open the Installer File Generator from *File – Devolutions Account – Installer File Generator*.

Remote Desktop Manager	- Installer file generator		-	o ×
📦 Installer file	generator			
Registration Information Image: Name Image: Email Image: Key	XXXXX-XXXXXX-XXXXXX-XXXXXXX]	?
Miscellaneous Proxy settings Saved i Include data source credential Data Source Type	installation paths Saved template Is Name	Devolutions Clou	d credentials	
Microsoft SQL Server Microsoft SQL Server Microsoft SQL Server Microsoft SQL Server	QA-LEX Duo SQL Serv - Admin SQL Serv - UReg			
Select All	Unselect All			
			Generate	Close

Installer File Generator

REGISTRATION INFORMATION

Registration Information	
✓ Name	
Email	
✓ Key	XXXXX-XXXXX-XXXXX-XXXXX-XXXXX

Installer File Generator - Registration Information

Name	Company registration name.
Email	Registration email if using a generic address.

Key	License serial.

MISCELLANEOUS



Do not redistribute the Devolutions Account **credentials**. Doing so would share these to ALL users having access to the online account used to create the installer package.



All Local templates will be included. If any contain credentials, it may cause a security risk. Ensure you are sharing only what is needed.



The data sources you decide to redistribute should **NOT** contain identifiable credentials. Use of integrated security is highly recommended. You can also use environment variables for the username.

Miscellaneous	
---------------	--

✓ Proxy settings	\checkmark Saved installation paths	Saved templates	Devolutions Cloud credentials	I
Include data sour	rce credentials			I

Installer File Generator - Miscellaneous

Saved installation paths	Preserves your installation paths configured for external third party applications. Use this only when all of the user's machines use the same paths.
Saved templates	Includes your local templates in the custom installer. Database templates are stored in the data source and may be a better option in you need to share them.

Filter history	Preserves your search/filter history
Proxy settings	Includes your Internet proxy settings
Devolutions Account credentials	Includes your Devolutions Account credentials used to create the custom installer. Please, consult security warning above.
Include data source credentials	Includes the credentials for all selected data sources below. Please, consult security warning above.

DATA SOURCES

Data Source Type	Name	Description
Microsoft SQL Server Microsoft SQL Server Microsoft SQL Server	QA-LEX Duo SQL Serv - Admin SQL Serv - UReg	

Data Source List

Select the data sources that must be included in the configuration. In the description column you will see details about each data sources. You should **ONLY** share data sources that are either using **Integrated Security**, or that are using an environment variable for the username. Passwords for accessing a data source should **NEVER** be shared.

3.1.3.2 Custom Installer Manager

DESCRIPTION

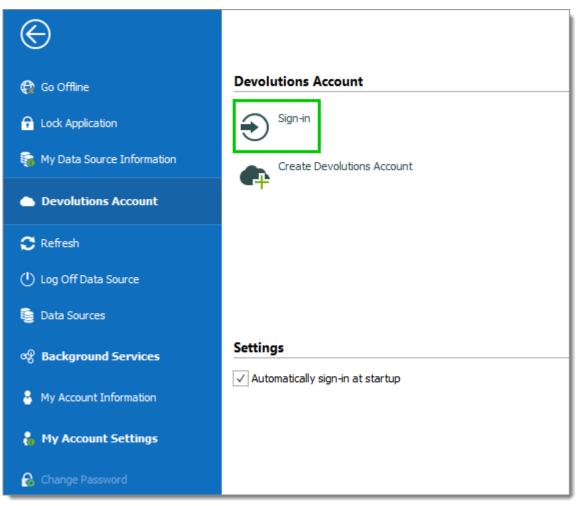
For stability reasons, in large installation bases, the latest official release is not available to the Custom Installer Service for an undetermined period while we ensure that no major issues are present. We recommend using this time with your organization to perform integration tests on a few workstations before upgrading your entire team.



Please ensure you have read and understood the content of <u>Custom</u> <u>Installer Service Overview</u> prior to subscribing to the service.

CREATE AN INSTALLATION PACKAGE

1. Click on *File – Devolutions Account – Sign-in* to connect to your Devolutions Account.



Devolutions Account Sign-in

2. Click on **Custom Installer Manager** to create a new custom installer with specific settings.

\odot	Remote Desktop Manager [Welco	me]
 Go Offline Lock Application My Data Source Information 	Devolutions Account	Tools Tools Installer File Generator
Devolutions Account Refresh	(h) Sinnart	Custom Installer Manager
Data Sources	Gign-out	
অস্ট Background Services	Settings	
🔒 Change Password	Automatically sign-in at startup	

File - Devolutions Account - Custom Installer Manager

3. Click on **New Package**.

ils -	Custom	Installe	r Man	ager		
	Version ID Created by		I		Requested on Generated on	
						Download EXE Download MSI Delete Package
ch						
Name	e	*	Template	Request	Generation	+ New Packag

Custom Installer Manager - New Package

4. Select the application version, enter a name for your package and click on **Create**. You can either create a new configuration or use an existing Remote Desktop Manager Installer (*.rdi) file. For more information, please consult our <u>Installer File</u> <u>Generator</u> topic.

📑 Remote De	esktop Manager - Installation Package Creation X
📦 Ins	tallation Package Creation
Version	2019.1.25.0
Name	Why is the Latest Version Not Available? Setup.RemoteDesktopManager.2019.1.25.0
Description	
Create a	configuration just for this package
🕖 Use existi	ng Remote Desktop Installer (rdi) file
Remote Desk	top Installer filename
	New
	Create Cancel

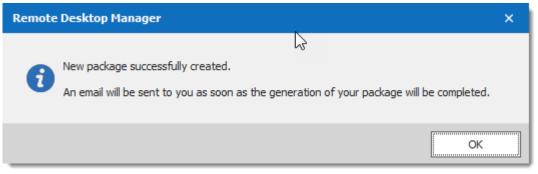
Installation Package Creation

When choosing to create a new configuration, select what to include in the custom installer, then click on **Generate**.

	r - Installer file generator				
👔 Installer file	generator				
egistration Information					
✓ Name	UWutmate				0
Email					Ø
✓ Key	XXXXX-XXXXXX-XXXXXX-XXXXXX-X	XXXX			
liscellaneous					
	•	templates	Devolutions Cloud	credentials	
Proxy settings Saved Include data source credenti	•	templates	Devolutions Cloud	credentials	
Include data source credent	als	templates		credentials	
Include data source credent	Als Name QA-LEX Duo SQL Serv - Admin	templates		credentials	
Include data source credent	Als Name QA-LEX Duo	templates		credentials	
Include data source credent	Als Name QA-LEX Duo SQL Serv - Admin	templates		credentials	
Include data source credent	Als Name QA-LEX Duo SQL Serv - Admin	templates		credentials	
Include data source credent	Als Name QA-LEX Duo SQL Serv - Admin	templates		credentials	

Installer File Generator

5. Once the installation package has been created, the request is submitted to our online service. A confirmation dialog window appears if successful.



New package successfully created

6. The Custom Installer Manager will display an hourglass [№] icon indicating that the package is being processed. When the package has been successfully generated, the Custom Installer Manager will display a green check mark ✓. Note that this process can take a while.

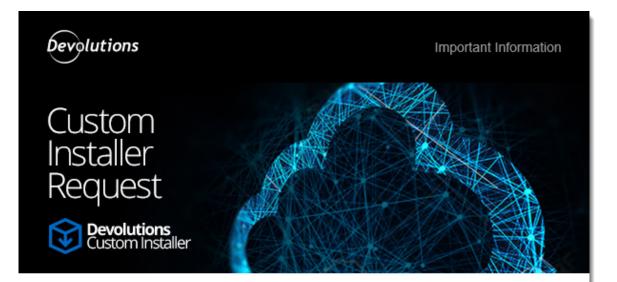
📑 R	lemo	te Desktop Mana	iger - Custom Inst	talle	er Manage	r						×
		Custom I	nstaller Ma	an	ager							
Deta		Setup.Rem	oteDesktopN	/la	nager.2	019.1.25.	.0					
		Version	2019.1.25.0				Reques	ted on	6/5/2019			
		ID					Genera	ted on	6/5/2019			
		Created by										
									Dowr	nload EXE		
									Dowr	nload MSI		
									Delete	e Package	2	
Sear	ch								5			
	Name			*	Template	Request		Generation		<u> </u>	New Pa	ckage
1.1			nager.2019.1.25.0		2019.1	6/5/2019				C	Refre	esh
~	Setup	.RemoteDesktopMa	nager.2019.1.25.0		2019.1	6/5/2019		6/5/2019				
				_								

Custom Installer Manager

setup.exe is in fact what is called a *bootstrapper,* it will ensure the installer runs with the required privileges. Use the msi only if you are sure the installer will run with all rights and process elevation.

DOWNLOADING AN INSTALLATION PACKAGE

Upon completion you will receive a confirmation email.



Greetings,

Your Custom Installer request was processed successfully.

Type: Remote Desktop Manager Version: 12.0.8.0 Name: Setup.RemoteDesktopManager.12.0.8.0 Description:

Access Account 🚯

You can access your account by clicking here.

Best regards,

Devolutions Team support@devolutions.net

Visit us at devolutions.net Devolutions 1000 Notre-Dame, Lavaltrie QC J5T 1M1 Canada

Email Confirmation - Custom Installer Processed

From here, there are two ways of downloading the package. You can download it directly from the **Custom Installer Manager**, or you can log in to the **Devolutions Account** you created the installer with.

DOWNLOAD WITH THE CUSTOM INSTALLER MANAGER

From the Custom Installer Manager, click on Download EXE or Download MSI.

J R	Remo	ote Desktop Ma	nager - Custom Install	er Manage	r						:
		Custom	Installer Man	nager			Ì	4			
Deta	ails -	Setup.Rei	moteDesktopMa	nager.2	019.1.25	.0					
	Ĭ.	Version	2019.1.25.0			Reques	ted on	6/5/2019)		
		ID				Genera	ted on	6/5/2019)		
		Created by									
								Dow	nload EX	E	
								Dow	nload MS	I	
								Delet	te Packag	je	
ear	rch										
	Name	e		Template	Request		Generation		+	New Pa	ackage
	Setup	.RemoteDesktop	Manager.2019.1.25.0	2019.1	6/5/2019				C	Refr	resh
1	Setup	o.RemoteDesktop	Manager.2019.1.25.0	2019.1	6/5/2019		6/5/2019				

Custom Installer Manager - Download Package

DOWNLOAD FROM THE DEVOLUTIONS CUSTOMER PORTAL

From the Devolutions Customer Portal you created the custom installer with, navigate to the **Custom Installer** section. Click on *.msi* or *.exe* to download the custom installer on your computer.

Cloud Devolutions	ЪЗ В∪У	🗔 SUPPORT 🕢 CONTACT						
Customer Portal	Create an	installer						
My Account My Serials My Invoices	With this	service, you can generate a custom installa	tion of the Remote De	esktop Manaį	ger or Password '	/ault Manager client with	a data source	of your choice pre-installed.
My Quotes		Output name	Description	Туре	Version	Creation date	Status	Downlad
Online Database +	0	Setup.RemoteDesktopManager.12.0.8.0		RDM	12.0.8.0	Apr 19, 2017	×	
Settings Sessions	0	Setup.RemoteDesktopManager.12.0.8.0		RDM	12.0.8.0	Apr 05, 2017	~	.msi .exe
Users Security Groups								

Devolutions Customer Portal - Download Custom Installer Package

3.1.4 For All Users

DESCRIPTION

Remote Desktop Manager's current installation package does require to install with elevated privileges, as well as making the application available to all users of the computer where you are installing. That being said, feedback has shown that it does complete successfully across a wide spectrum of our community's environments. Follow this procedure to reduce deployment issues in the future.

PROCEDURE

This procedure registers all file types associations, this mean that rdp files will from now on be opened with Remote Desktop Manager. If you wish to avoid this, install manually using the Custom mode, and choose every option but that rdp association.

- 1. Copy the installer to a folder available for all users of the workstation. e.g. c:\Deploy
- 2. Open an **Elevated Command** prompt (right click on the shortcut and select *Run as administrator*).
- 3. Run the following command, adapted for the version that you are installing msiexec /i Setup.{APPNAME}.{VERSION}.msi /Quiet /Passive INSTALLMODE=Complete

We also **recommend disabling the auto-update** check as all further installations or upgrades should be performed by an administrator **AND** using elevated privileges.

If you wish to proceed with upgrades from within Remote Desktop Manager, **it must** have been started using *Run as administrator*.

NOTES

The Microsoft installer technology copies the installer package under a new randomized name as well as register it in a database. Our experience shows that this copy has a way of disappearing and that the database becomes corrupted. We often have to direct our community to use <u>https://support.microsoft.com/en-us/mats/program_install_and_uninstall</u>

The *Quiet* and *Passive* parameters are just to ensure that you do not have to make a choice during the installation. We found that this reduces the risk of errors.

3.1.5 Portable (USB)

DESCRIPTION

Remote Desktop Manager can be used as a portable application. Here are the steps required to ensure that it runs correctly:



The portable installation mode allows you to run multiple versions of Remote Desktop Manager, using various license serials and configurations.



This procedure is not recommended for running Remote Desktop Manager from a network shared by multiple users. This would prevent identifying individual users and there would be conflicts with user preferences.



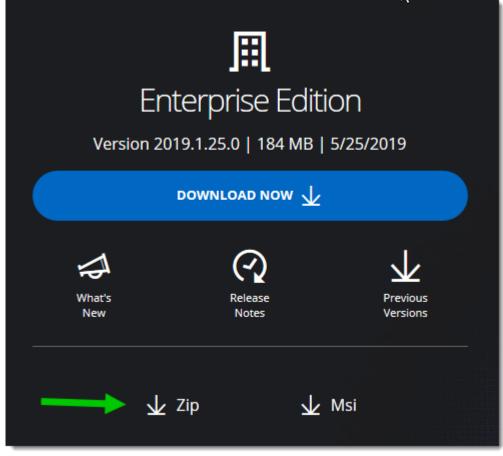
Remote Desktop Manager stores the offline cache in your Windows profile by default. If you are using an Advanced Data Source and plan to use the offline mode, use the Options in the Advanced category to have the offline cached stored in the application folder instead.



The following steps ensures true portability and ease of maintenance. It can easily be adapted to your liking.

PROCEDURE

1. Download the "Zip" package of Remote Desktop Manager.



Zip File Download

- 2. Create a RemoteDesktopManager folder on your portable device.
- 3. In the installation folder created in step 2, create two folders:
 - 3.1. A *config* folder.
 - 3.2. A data folder.
 - 3.3. A tools folder (optional, only if you intend to use external tools like Filezilla).

- 4. Unzip Remote Desktop Manager in the installation folder.
- 5. Create a text file named **override.cfg** in the installation folder. Set the content of the file to .\config
- Open Remote Desktop Manager and display the data sources window using *File Data sources*.
- 7. Create a new data source of a type that can be stored on your portable device. i.e. SQLite, XML, etc.
- 8. Configure the data source using a relative path so it is stored on the portable device: .\Data\Connections.db

🔲 Remote Desktop Ma	anager - SQLite			×
SQLite	⊳			
General Backup VF	PN Advanced			
Name Database	\Connections.db			
Password	Always ask password Test Connection			
Two factor	None			
ID C2970072-4217-41	132-97AD-DC46217C54FC	ОК	Cano	el

SQLite Data Source

10. Configure your portable applications (FileZilla, UltraVNC, etc.) in the same manner (relative to the installation folder). Click on **Configure Installation Path** to select your preferred portable application.

Remote Desktop Manager			×
General Application Start Application Close Notification Proxy (Web) Custom Variables User Interface Yopes	Application Installation Path Configure Installation Path Other		
Reports			
Browser Extensions	Screenshot		
Key Agent	T		
Security	Application log		•
> Tools Path	Save As Document		
Cloud	Default Templates		
> Advanced	Default Add-on path		•
Import Options			
Export Options			
	Search property	Cancel	

Options - Path - Configure Installation Path

🔲 Remote Desktop Manager - Installatio	n Path
Installation Path	
 Database .Net Db Visualizer Ficom Blaze Client FastViewer Client FastViewer Master FlashFXP Ftp Filezilia SmartFTP WinSCP GateProtect Firewall Administration Cli HP Integrated Lights Out (ILO Applicat HP Remote Graphics Receiver IBM i Access IBM Personal Communications IperiusRemote ISL Light ISL Light Desk Microsoft Remote Assistance Microsoft Remote Desktop Client MobaXterm 	Default path Override default executable Filezila C:\>Choco install filezilla Instali N C:\>Choco install filezilla Download
	ОК

Filezilla Installation Path

11.You can now delete the pre-existing *Local data source* that had been created automatically.

3.1.6 Registration

DESCRIPTION

REMOTE DESKTOP MANAGER ENTERPRISE EDITION

Please refer to the <u>Enterprise Edition</u> topic to properly register your version. If you decide not to register at the end of the 30 days trial, your data will not be altered or erased, and you will have full access to it once you provide a valid license serial.

REQUEST A TRIAL

It is possible to request a 30 days trial to try Remote Desktop Manager - Enterprise Edition with all its features. Form more information, please consult the <u>Trial Request</u> Topic.

REMOTE DESKTOP MANAGER FREE EDITION

Remote Desktop Manager Free Edition is similar to the Enterprise edition. Remote Desktop Manager Free Edition must be registered following the 30 days trial period to ensure continued use. Registration is free, please refer to the <u>Free Edition</u> topic.

DEVOLUTIONS SERVER

Consult <u>Create Devolutions Server Instance</u> to register a new Devolutions Server instance.

If you want to activate your renewal license key, consult <u>How To Activate Your</u> <u>Renewal Subscription for Devolutions Server</u>.

DEVOLUTIONS ONLINE DATABASE

Please consult <u>Online Database Registration</u> to register a new Devolutions Online Database.

64

3.1.6.1 Enterprise Edition

DESCRIPTION

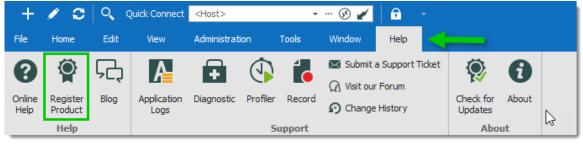
Remote Desktop Manager can be registered by <u>manually providing a license serial</u> or with a <u>license serial stored in a data source</u>.

It is possible to <u>request a trial</u> to try Remote Desktop Manager for 30 days. If you decide not to register the application with an Enterprise Edition license serial at the end of the 30 days period, your data will not be altered or erased, and you will have full access to it once you provide a license serial.

MANUAL REGISTRATION

Remote Desktop Manager Enterprise license serials are delivered by email.

- 1. Locate the email and copy the serial.
- 2. Open Help Register Product.



Help - Register Product

3. Enter the Name, Email, and Serial number from the email, then click OK.

🔲 Rem	ote Desktop Manager - Register the Application	>	×
Ŷ	Register the Application		
	Enterprise Edition trial Serial	Request Trial	
	Enterprise Edition Name Email Serial		
	OUse registration from Devolutions Cloud	<u>Create a Free Account</u>	
Free upgr	ade until: Wednesday, December 1, 2021	Renew now	OK Cancel

Register Enterprise Edition

REGISTRATION FROM THE DATA SOURCE

When the license serial is stored in the <u>Data Source Settings (System Settings)</u> of an <u>Advanced Data Source</u>, there is no need to register Remote Desktop Manager as the license serial is retrieved directly from it. When launching the application for the first time, simply add the data source containing the serial.

FOR ADMINISTRATORS

To add a license serial, navigate to *Administration - Licenses*.

+	10	Q	Quick Conr	ect <hos< th=""><th>:t></th><th>÷ -</th><th> 🕑 🆌</th><th>•</th><th>•</th><th></th><th></th><th></th></hos<>	:t>	÷ -	🕑 🆌	•	•			
File	Home	Edit	View	Admi	nistration	Tools	Window	Help				
-	8	Ê	Õ				2		1		Clean Up Deleted History	
Users	Vaults	Roles	Licenses	Reports	Administration Logs	Deleted Entries	Vault Settings	System Settings	System Permissions	Security Provider	Clean Up Activity Logs	Pack Data Source (Optimize)
	Manag	jement			Reports			Se	ttings		Clean Up	

Administration - Licenses

In Licenses, click on Add License. Enter the license serial and click OK.

Remote Desktop Manager - Use	r and Security Management			- x		
	+ Add License 🖋 💲 🗙 Image Name	1	. Description	Is Active	-	- ×
Cores	Ceneral Assigned To	General ID License Details	Auto assign new users			
					ОК	Cancel

User and Security Management - Add License

3.1.6.1.1 End of License

DESCRIPTION

Some of our Remote Desktop Manager Enterprise users could wonder, what will happen when my license expires. Here is a breakdown depending on your purchase model.

PERPETUAL

When you purchase a perpetual license, you always receive 1 or a 3 year maintenance with it. After that period, Remote Desktop Manager will continue to work indefinitely with the latest version available at the moment of the maintenance expiration.

If you discover a bug, a security issue or you want to have access to newest features and that you would like to upgrade, you would need to purchase a maintenance plan for your perpetual license.

SUBSCRIPTION

All Remote Desktop Manager Enterprise **Subscription** plans offer software maintenance (1 or 3 years), which includes all major/minor upgrades and technical support.

You need to renew your subscription agreement upon expiry. If you don't renew your subscription, access to your data will be limited.

3.1.6.2 Free Edition

DESCRIPTION

<u>Remote Desktop Manager Free Edition</u> requires a free registration after 30 days to be able to continue the use of the application.

The **Register the Application** window will display at each Remote Desktop Manager launch until you have registered the product license. It shows the number of remaining days and your registration choice.

Remote Desktop Manager Free	- Register the Application	×
🛱 Register the A	oplication	
Use registration from	Devolutions Account	
Use serial		
Email		
Serial	<u> </u>	
Register later		
You have 30 days left t	o register (free).	
Create a Free Account	View the Ente	erprise Features
Θ	Close Application	n OK

Register the Application

USE REGISTRATION FROM DEVOLUTIONS ACCOUNT

Every owner of a Devolutions Account is assigned a free license serial for Remote Desktop Manager in their Customer Portal.

To get a Devolutions Account, click on Create a Free Account in the register window.

To register your application follow these steps:

- 1. Select Use registration from Devolutions Account.
- 2. Click **Ok**.
- 3. Fill in your credentials and **Continue**.

Devolutions				
Log in to continue	e			
Password				
Continue				
Forgot Password	Create Account			

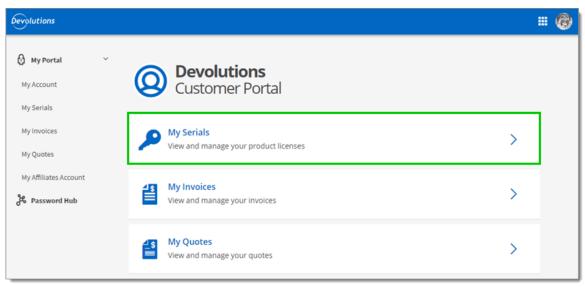
Devolutions Account Login

The license serial will be retrieved automatically.

REGISTER THE FREE EDITION WITHOUT AN INTERNET CONNECTION

In the event that you need to register the application without an internet connection, the information must be entered manually. You will need the license serial from your <u>Customer Portal</u>.

Log in to Customer Portal and click on My Serials.



Customer Portal - My Serials

Copy the license serial for the Free Remote Desktop Manager Edition.

		:	•	0
		+		
			٦	
Your Free product RDM FREE	licenses			
			L	
Information	License key	Expiration		
	No results.			
	Product licen Your Free product RDM FREE	Product licenses associated with your account Your Free product licenses RDM FREE Information License key	My Serials + Product licenses associated with your account + Your Free product licenses RDM FREE Information License key Expiration	+ Your Free product licenses + My Serials + Your Free product licenses + RDM FREE - Information License key

Free Product Licenses

Paste the license serial, enter an email address and press Ok.

🔲 Remote	Remote Desktop Manager Free - Register the Application X					
🍄 R	Register the Application					
	Use registration from Devolutions Account Use serial Email Serial Register later					
	You have 30 days left to register (free). Create a Free Account View the Enterprise Featu	ıres				
0	Close Application	ОК				

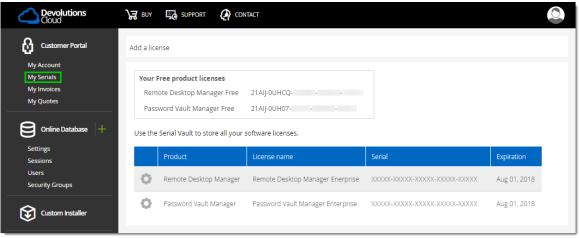
Register Manually

3.1.6.3 Register from Devolutions Portal

DESCRIPTION

It is possible to register the product with a license serial stored in a Devolutions Customer Portal.

When creating a Devolutions Account a free license serial is provided for the free edition of Remote Desktop Manager. License serials purchased for the enterprise edition can be stored in the **My Serials** section of the Devolutions Customer Portal.



Devolutions Customer Portal - My Serials

1. To register the product, navigate to *Help – Register Product*.



Register product

2. In the Select your Application Edition window, select Use registration from Devolutions Account.

Remote Desktop Manager Free - Register the Application		×
P Register the Application		
Use registration from Devolutions Account Use serial Email Serial Decistor late		
Register later You have 30 days left to register (free).		
Create a Free Account	View the Enterprise I	Features
0	Close Application	ОК

Select the Registration

3. Enter the credentials of the Devolutions Account, then click **Connect**.

Devolu Log in to c	
Username	
Password	
Continu	Je
Forgot Password	Create Account

Prompt for Devolutions Account credentials

3.1.6.4 Trial Request

DESCRIPTION

When launching Remote Desktop Manager for the first time, the application registration window is displayed. If you are not ready to buy Remote Desktop Manager, you must request a trial to use the application. The trial is valid for 30 day, after which the application cannot be used unless a valid Remote Desktop Manager Enterprise Edition license serial is provided.



Request your Remote Desktop Manager Enterprise 30 day trial from our <u>website</u>.

STEPS

- 1. Request from our website your <u>Free 30 day trial</u> or click in the **Register the Application** window the **Request Trial** link.
- 2. Copy the trial license serial that you will receive in a confirmation email from Devolutions.
- 3. In Remote Desktop Manager navigate to *Help Register Product*, select *Enterprise Edition trial* and paste the serial from your confirmation email.
- 4. Click *OK*.

🔲 Remote	e Desktop Manager - Register the Application		×
Ŷ	Register the Application		
	Enterprise Edition trial Serial	Request Trial	
	Use registration from data source	· + / 🕏	
	Enterprise Edition		
	Name		
	Email		
	Serial		
		Renew now	OK Cancel

Register Enterprise Edition Trial

3.1.7 Remote Desktop Services

DESCRIPTION

Remote Desktop Manager has an excellent support for running under a Remote Desktop Services environment. A master configuration file can be created to distribute settings for all new users of the system or even to update existing user's configuration. Please ensure that you have followed Microsoft's recommendation on how to set up an RDS environment. It will severally impact the performance if default Windows installations are performed.

https://docs.microsoft.com/en-us/windowsserver/administration/performance-tuning/role/remotedesktop/session-hosts

Each user must have a unique application data folder (Roaming profiles or similar technologies). Remote Desktop Manager saves some user preferences to the local configuration file. The folder can be wiped out whenever the user logs out of the Windows Session, but it must be accessible for the duration of Remote Desktop Manager execution.

The **Devolutions Web Login (DWL)** was created for a normal desktop environment. It uses Inter-process communication (IPC) with the client application. Using it on a remote desktop server introduces a level of risk that may be unacceptable for corporate users.

Safe usage of **DWL** requires a manual configuration of both **RDM** and **DWL** on each user profiles. For more information about the subject visit our <u>Secure Devolutions Web Login</u> topic.

PROCEDURE

- 1. Install by following the procedure <u>For All Users</u>. This ensures that the Microsoft Installer Database does contain all of the needed information for all user profiles of the host.
- 2. After installing Remote Desktop Manager, configure your preferences. We recommend going through all the configuration options to find the set of options that you wish to distribute. The data sources deserve special interest since it is much better when they are configured by an administrator. You may even take the opportunity to lock the data sources to protect against any modification by the users. Please refer to Lock Data Source for more information.

When using Advanced Data Sources, for effective logging methods, proper session security and user-based features, it is CRITICAL that each user has their own account to authenticate against the data source.

Redistributing a data source registration should follow one of the patterns below:

- \circ The data source is configured to always ask the username and password;
- You are using integrated security against SQL Server;
- You use environment variables for the username, and require the password. (we recommend %USERDOMAIN%\%USERNAME% Or %USERDNSDOMAIN%\% USERNAME%)
- 3. When Remote Desktop Manager is configured to your liking, use File Options -**Export Options.** This will allow you to choose exactly the data sources to include. as well as the various categories of settings. Please refer to Export Options for further details. Save the file with the name *default.cfg*



Do not check the options to include **Devolutions Account** Credentials as well as any data source that contains saved credentials while also enabling *Include data source credentials*.

4. Move that file in the installation folder of Remote Desktop Manager, if you have used the default installation settings, it is under %ProgramFiles(x86)% \Devolutions\RemoteDesktopManager.

WORKFLOW

NEW USERS

Whenever a new user creates a profile on the system, Remote Desktop Manager detects the presence of the *default.cfg* file and uses it as a template to create the user's configuration file.

EXISTING USERS



A group policy exists to force the new configurations to be accepted automatically.



If the user chooses to ignore the new configuration file when presented with the dialog below, he will not be presented with the choice until the date/time of the *default.cfg* file has changed.



If the main concern is deploying a new license key, and you are using of of the <u>Advanced Data Sources</u>, you should rather use the <u>Data</u> <u>source settings (System Settings) - Serial</u> feature.

Whenever Remote Desktop Manager is started and it detects a new *default.cfg* file, the following dialog will appear:

📮 Remot	te Desktop Manager	×
⊻ ⊻	There is a new default configuration file. Please select what to do.	
	ightarrow Use New Configuration (Lose Mine)	
	ightarrow Retrieve New Registration Only	
	→ Ignore	
		Cancel

New default.cfg detected

By selecting **Use New Configuration (Lose Mine)**, the user's configuration is simply overwritten. If you only wish to update the Remote Desktop Manager license key after a renewal, choose **Retrieve New Registration Only**.

3.2 Database Upgrade

DESCRIPTION

This topic applies to installations with data sources that are using a **database** as their data store.

Some Remote Desktop Manager releases must alter the database structure. These are performed automatically for you but it is best practice to perform a backup of your data source beforehand. Additionally, If you are in a team environment **you must be the sole user connected to the database** during the upgrade.



The user performing the update must have administrative privileges on the underlying database. (SYSDBA or DB_OWNER).



Perform a database backup and ensure that you can quickly perform a restore if required.



If your organization allows for a read/write offline cache, ensure that all of your users have merged their offline edits.

STEPS

Follow these steps for a successful version update:

- 1. Ensure you are the sole user of the database during the upgrade process. If you environment allows for offline use, have your team switch to the offline mode; or have them switch to another data source.
- 2. Back up your database using the database tools.
- Install the desired version of Remote Desktop Manager, using the <u>Portable</u> (<u>USB</u>) deployment model may be desirable if you are doing this on your personal workstation.

- 4. Open Remote Desktop Manager while logged on as a user with administrative rights. You must also be **SYSDBA** or **DB_OWNER**.
- You may be prompted with an upgrade message when your data source is accessed. If so accept the upgrade.
 or

Using *File – Data sources*, locate your data source to upgrade and open its property window. Switch to the *Upgrade* tab, then click on *Update Database*

- 6. Wait for a confirmation dialog.
- 7. Close the dialog.
- 8. Ensure your Remote Desktop Manager application is currently using that data source.
- 9. Press CTRL-F5 to force a full refresh.
- 10. Validate the content and perform a check of the technologies that are critical in your environment.
- 11. Update the client software on all workstations.

3.3 Uninstall

INSTRUCTIONS

Remote Desktop Manager doesn't install anything in the Windows System directory. The only registry settings created are for the auto-run functionality and the installation path. As a result, Remote Desktop Manager can be uninstalled easily.

You can run the uninstaller if it was installed with the default setup file or delete the installation folder directly if it was installed from the binaries.

The application configuration files are saved in "%LocalAppData% \Devolutions\RemoteDesktopManager" or "%AppData% \Devolutions\RemoteDesktopManager" by default. It's possible that you may want to delete this folder for a complete uninstall.



Please note that if you are using a local data source like <u>SQLite</u> or <u>XML</u>, your data source may be saved in the configuration folder. Perform a backup of the data source prior to the deletion of the folder.

3.4 Update

The *Update* feature prompts the user to update to a newer version of the application and displays the release notes. The user's choice for the previous update is shown as selected.

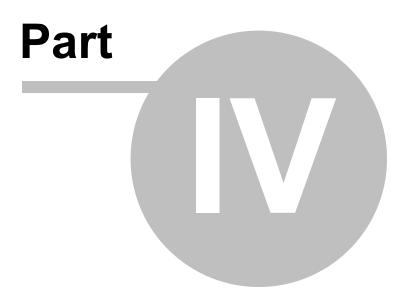
🔲 Remote Desktop Manager - Update Available	-		×
🧐 Update Available			
New version 2019.1.27.0 Beta	Current version	2019.1.	.3.0
Release Notes			^
VERSION 2019.1.27.0 (June 5th 2019) NEW FEATURES • Added support live display for FreeRDP/VNC/ARD • Added thumbnail support for all the file explorer session Shell, S3)	n type (FTP, SFTP,	SSH	
 MPROVEMENTS Added "Start all live displays" in thumbnails Added folder information in multiple reports Added setting to decide if you want to use the template with parameters -> Template" Added the possibility to filter the smart folder results 	's credentials in "(Open	
Added the possibility to filter the smart folder results Remind me later Skip this version Download this version and install when application is closed Download installer using your default browser Download this version and install now			~
Download this version and install now	•	ОК	

Update

Remind me later	Remind to update the next time the application is opened.
Skip this version	Do not update the application with this version.
Download this version and install when the application is closed	Download the version and wait for the application to be closed before installing.

Download installer using your default browser	Download the installer externally using your default web browser.
Download this version and install now	Immediately download the new version and install it.

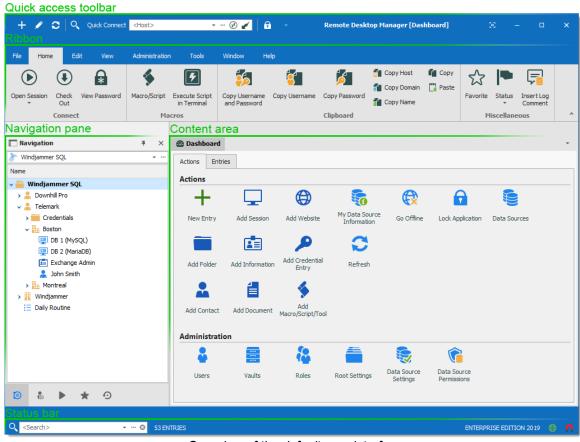
User Interface



4 User Interface

4.1 Main Screen

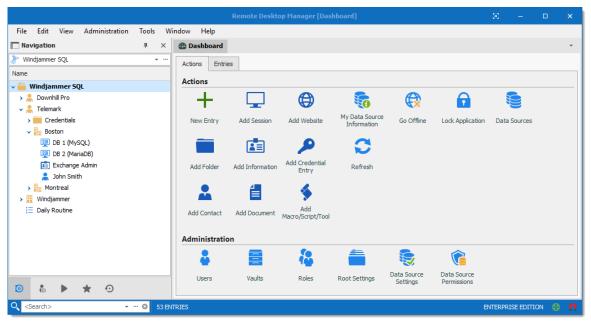
Illustrated below is the default Remote Desktop Manager main screen. Go to *File – Options – User Interface* to change the current style. We have various settings for you to customize your experience, such as different themes, shortcuts and more!



Overview of the default user interface

MENU USER INTERFACE STYLE

With the Menu user interface style, the *Ribbon* is been replaced by a standard menu, and the *Quick Access toolbar* is not present. This setting can be found in *File – Options – User Interface – Ribbon Interface*.



Menu user interface style

4.2 Style

Remote Desktop Manager supports different User Interface Styles (sometimes known as skins). These greatly influence the visual aspect of the User Interface as well as its mode of operation. Three styles currently exist:

- <u>Ribbon</u>
- <u>Menu</u>

CONFIGURATION

To select the User Interface style you must go in **File – Options – User Interface** and modify the **Ribbon interface**.

🔲 Remote Desktop Manager						×
> General	General					
User Interface Types	Ribbon interface	Ribbon	-			
Reports	Theme	Default - Light	-	•		
Browser Extensions Key Agent	Language	English	-			
Security	Data source location	Default - Navigation pane (top)	-			
> Tools Path	Vault location	Default - Navigation pane (bottom)	-			
Cloud	Selected ribbon on start	Default - Home	-			
> Advanced	Selected ribbon on connection	Default - Action	-			
	Selected ribbon on item select	Default - Edit	-			
	Advanced					
	Wait progress mode	Window	-			
	Tab coloring (unselected)	Default - Light-Light	*			
	UI Options	^		^		
	Allow batch add			-		
	Always on top					
Import Options	Always show grouped tab bar					
Export Options	Auto size tree list columns			~		
	Search property			ОК	Can	cel

Options - User Interface

EXISTING STYLES

RIBBON

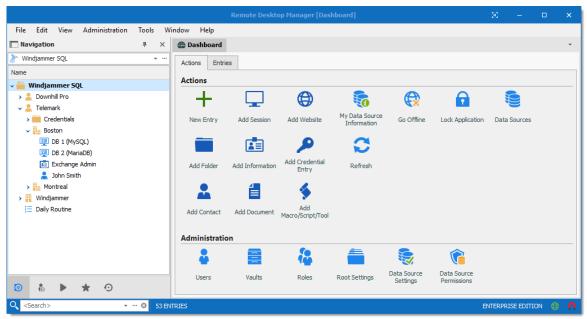
The latest style sports a ribbon. Icons and text makes it easy to explore features.

+ 💉 😋 🔍 Quick Connect	<host></host>	•	🐼 🖌 🔒 🔂	-	Remote Desktop I	Manager [Dash	board]	⊠ - □	×
File Home Edit View	Administration	Tools	Window Help						
Open Session Check View Password	S	Execute Script	Copy Username C	opy Username C	<u>_</u>		Copy	e Status Insert Log	
• Out	Macro/Script	in Terminal	and Password	opy username i c	opy Password	Copy Name	Favorit	e Status InsertLog Comment	
Connect		cros		(lipboard			Miscellaneous	^
Navigation	Ψ×	🖀 Dashboard	1						•
Windjammer SQL	*	Actions En	tries						
Name		Actions							
Windjammer SQL Solution Comparison C		+		٢	5				
> Credentials		New Entry	Add Session	Add Website	My Data Source Information	Go Offline	Lock Application	Data Sources	
559 DB 1 (MySQL) 599 DB 2 (MariaDB)			E	P	0				
💼 Exchange Admin 💄 John Smith		Add Folder	Add Information	Add Credential Entry	Refresh				
> 🏪 Montreal > 🧮 Windjammer				٠					
📃 Daily Routine		Add Contact	Add Document	Add Macro/Script/Too					
		Administra	tion						
		-		&		5	()		
		Users	Vaults	Roles	Root Settings	Data Source Settings	Data Source Permissions		
💿 诡 🕨 ★ 💿									
O <search> -</search>	😂 53 EN	TRIES					ENTER	PRISE EDITION 2019 🛛 🧲	0

Ribbon User Interface

MENU

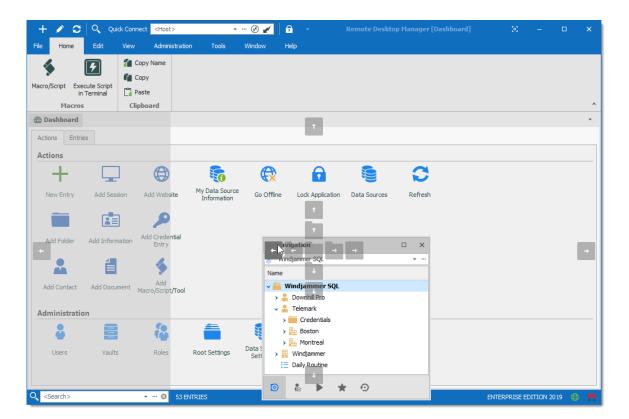
Previous generation style, it holds a standard menu to invoke commands.



Default User Interface

CUSTOMIZING YOUR UI

Customizable styles (Default Ribbon and Default Menu) have dockable areas that can be rearranged to your liking. Simply left-clicking then dragging the sub-components will result in drop zones appearing. This allows you to drop the sub component where you choose, even outside of the main form if you'd like.



4.3 Theme

The themes will modify the color and shade of Remote Desktop Manager.

🔲 Remote Desktop Manager					×
> General	General				
Vser Interface Types	Ribbon interface	Ribbon 👻			
Reports	Theme	Default - Light -			
Browser Extensions Key Agent	Language	Default - Light			
Security	Data source location	Legacy Light			
> Tools Path	Vault location	Dark			
Cloud	Selected ribbon on start	Black			
> Advanced	Selected ribbon on connection	Default - Action 👻			
	Selected ribbon on item select	Default - Edit 👻			
	Advanced				
	Wait progress mode	Window			
	Tab coloring (unselected)	Default - Light-Light 👻			
	UI Options	^	^		
	Allow batch add				
	Always on top				
5 Import Options	Always show grouped tab bar				
Export Options	Auto size tree list columns		~		
	Search property		ОК	Cano	el

User Interface - Theme

Default - Light	Use the default theme, which is the Light theme.
Legacy	Use the old look of Remote Desktop Manager (version 7 of RDM)
Light	Use a clear theme with tones of white, gray, and blue.
Dark	Use a dark theme with tone of gray and black.
Black	Use the darkest theme, mainly with tones of black.

4.4 Top Pane

The Top Pane contains the Quick Access Toolbar and the Ribbon / Menu.

+ 🌶	0	୍ ପୂ	uick Con	nect <hos< th=""><th>t></th><th>Ŧ</th><th>··· 🕑 🆌</th><th>🔒 – Rem</th><th>ote Desktop I</th><th>Manage</th><th>r [Dashboa</th><th>rd] [•</th><th>e – D</th><th>×</th></hos<>	t>	Ŧ	··· 🕑 🆌	🔒 – Rem	ote Desktop I	Manage	r [Dashboa	rd] [•	e – D	×
File Ho	ome	Edit	View	Admi	nistration	Tools	Window	Help						
+	Crea	icate ite Short	cut		💵 Rename	Ĩ		Â	í	1	5	🗧 Exp	port Selection (.rdm)	
New Entry	🔁 Save			Properties	X Delete	Play List	User Specific Settings	Local Specific Settings	Edit (Special Actions)	Batch Edit 👻	Move to Vault			
	Add				Edit		Setting (Overrides	1	Batch			Export	^

Remote Desktop Manager top pane

It can be hidden to maximize the work area.



Hide the top pane completely



Hide the ribbon

If you end up confused by your modified settings and would like to reset it to its original layout, navigate to the *Windows* tab and select *Reset Layout*.

🕂 🥒 🕽 🔍 Quick	Connect <host></host>	🛞 🆌 🔒	 Remote Desktop Manager [Dashboard] 	(2)	-	×
File Home Edit '	/iew Administration Tools	Window He	þ			
Cascade	Reset Layout	<u> </u>				
Tile Horizontal	🔄 😂 Change Data Source	· · · ·				
Tile Vertical Use Tabbed Header	Close	Expand Collapse All All				
Header	Windows	Tree View				^

Windows – Reset layout

4.4.1 Quick Access Toolbar

The **Quick Access Toolbar**, which is found at the top of the application, It is composed of multiple parts:

- System menu icon.
- Favorite commands.
- Quick Connect control.
- Lock command.

7



Quick Access Toolbar

Quick Access Toolbar buttons are flagged locally on the current machine by the current user. These local buttons are saved in a file named RemoteDesktopManager.qtb. By default, this file is located in % localappdata%\Devolutions\RemoteDesktopManager.

FAVORITE COMMANDS

Commands contained in the ribbon can be added in the quick access toolbar. These are the favorite commands. To add a command to the quick access toolbar, right-click any icon in the ribbon the select **Add**.

+ 🖋 😋 🤇	🔍 Quick Connect _diost>
File Home U Users Security Grou (Legacy) Manage	Logs Entries Ings Permissions Provider var Clean Up Activity Logs (Optimize)
	Favorite Commands
4	Create a new entry in your current data source.
/	Open the properties window of your selected entry.
C	Refresh your data source.
0	Open the filter dialog window to allow you to do a quick search.

Right-Click on any command to display the contextual menu. To remove an item from the quick access toolbar, right-click on the item and select **Remove**. To add an item to the quick access toolbar, right-click an item in the ribbon and select **Add**. Use this to customize your workspace with your preferences.

QUICK CONNECT CONTROL

Please refer to Quick Connect for a detailed description.

LOCK APPLICATION COMMAND

This command will minimize the application. When you attempt to restore it you will be prompted for the password. Applies only to data sources protected by a password.

4.5 Navigation Pane

DESCRIPTION

The **Navigation Pane** is one of the main components of Remote Desktop Manager user interface. It lists all the available entries in the current data source, and allows to switch to another data source or Vault.

Navigation	# ×
Data source selector	
े Windjammer – Admin	*
Entry list	
Name	
🛛 🪞 Windjammer – Admin	
🔺 🟯 Downhill Pro	
Credentials	
🐼 Downhill 1	
🐼 Downhill 2	
Downhill SSH	
🕨 🤱 Telemark	
▶ 🏨 Windjammer	
E Daily routine	
O DUCK-WINSRV 16	
Vault selector	
E Default	• ··· 💭
Tabs	
⑧ ‰ ▶ ★ ⊙	

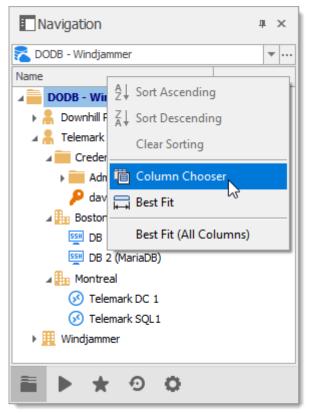
Navigation Pane

Data source selector	Allows to switch to another configured data source.

Entry list	Displays the content of the current data source, depending on the selected tab. It allows to select entries and perform action on them.
Vault selector	Allows to switch to another configured Vault in the data source.
Tabs	Allows to switch to different views of the entry list, such as the <u>Favorite entries</u> or the <u>Opened sessions</u> .

COLUMN CHOOSER

Choose the columns to display in the tree view. Right-clicking on the column name in the Navigation Pane and select **Column Chooser**.



Navigation Pane – Column Chooser

For more information on each tab, please consult the following topics:

- Vault
- User Vault
- <u>Opened Sessions</u>
- Favorite Entries
- Most Recently Used Entries

4.5.1 Opened Sessions

DESCRIPTION

The **Opened Sessions** tab shows currently running sessions by type, and for the local machine only. You can give the focus to an opened session by double-clicking it from the list. All of the embedded sessions are listed, and the external sessions will appear if Remote Desktop Manager is able to discover the specific type of session.

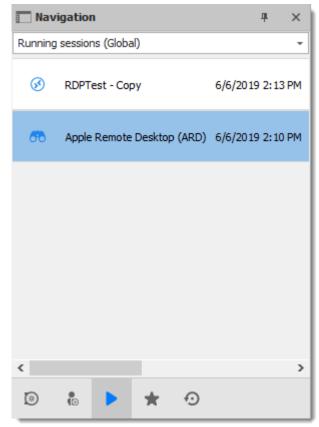
LOCAL SESSIONS

🔲 Navi	gation				ф	×
Running	session	s (Local))			-
670	Apple I	Remote	Desktop	o (ARE	Focus Session Close Refresh Export to Csv Export to Html Export to XIs Export to Xml	
< ©	Io	•	*	Ð		>

Local Opened Sessions

GLOBAL SESSIONS

With the SQL Server and Devolutions Online Database data sources, you can monitor currently running sessions, provided that they have been opened within Remote Desktop Manager.



Global Opened Sessions

For many reasons beyond our control, it's possible for a session to be terminated without Remote Desktop Manager knowing that this has taken place. This can happen, for example, if Remote Desktop Manager isn't running when another application ends. As a result, any terminated session will remain listed in the log. You may manually mark it as closed via the contextual menu by selecting **Flag as Closed**.

To review a detailed log, double click on a session entry.

HIDDEN SESSIONS

Some sessions, like **SSH Port Forward**, can be hidden from the dashboard when the connection is established. When these sessions are hidden, they are not displayed in the **Local Sessions**. Select **Hidden Sessions** from the combo box above the entry list to display hidden sessions only.

Nav	vigation		ą	x	Nav	/igation			д	×
Local Ses	ssions			\sim	Hidden S	essions				~
Туре	Title	Start Time	Mode		Туре	Title		Start Time	Mode	
S	DEVOLUTIONS-HV				÷					
	▶ ★ ⊙ ≎					▶ ★	0 0			

Local Sessions Versus Hidden Sessions

VPN GROUPS

Sessions can be configured to use a VPN Group. When multiple session are using the same VPN group, it will appear in this section with the count of opened connections using this VPN group.

Navigation	щ	×
VPN Groups		\sim
VPN Group Opened Connections		
VPNGroup1 2		

VPN Groups

NOTES

- Remote Desktop Manager tries to detect opened sessions even if they weren't launched from the application. It uses the name of the process to accomplish this task.
- VPN sessions do not appear in the list.

4.5.2 Favorite Entries

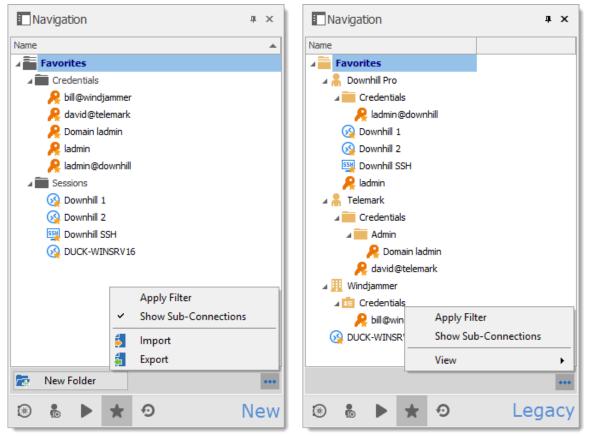
DESCRIPTION

The **Favorites** tab contains entries flagged as favorite by the current user. Favorites are not shared and they roam with the user profile.

This is useful when the number of managed entries becomes too great or when a strict directory structure must be maintained.



The favorites feature has been completely reorganized in beta version 12.9.0.0. To revert to the legacy interface, navigate to *File – Options – User Interface – Favorites*, then enable the **Use legacy favorite UI** option.



New and Legacy favorite UI

When using the legacy favorite interface, the favorites view can be personalized the same way as the Vault. Click on *** to select a preferred **View**.

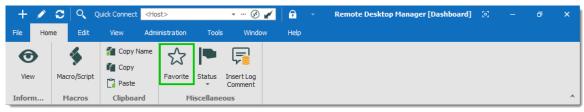
FLAG AN ENTRY AS FAVORITE

Right-click an entry in the Navigation Pane, then select Favorite.

Navigation		म ×
Windjammer		v
Name		
	Open Session Open with Parameters View Password Copy Username and Pass Copy Username Copy Password	word
È≡ Daily routir 🔽 ➡	Execute Script Via Agent New Entry Duplicate Add	Ins Ctrl+D ►
Default	Edit Move Delete	► Ctrl+Del
2	Favorite	
/	Properties	

Flag an entry as favorite

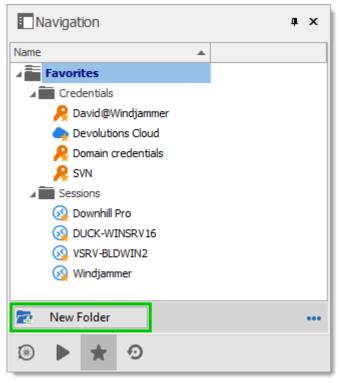
The same command is located in the ribbon *Home* tab in the *Miscellaneous* section.



Home – Miscellaneous – Favorite

ORGANIZE THE FAVORITES

Favorites does not necessarily replicate the folder structure of the Vault. Add folders in the favorite view to organize your favorite entries, or enable the legacy favorite interface.



Add folders to organize favorites

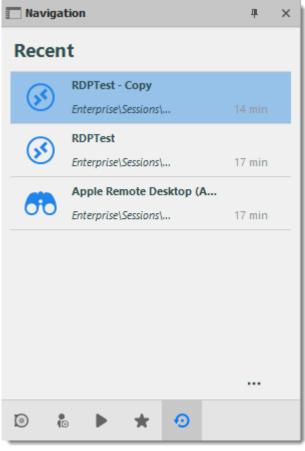
ICON OVERLAY

If desired, an icon overlay \neq can be displayed in the Vault over favorite entries. To display the icon overlay, navigate to *File – Options – User Interface – Favorites*, then enable the **Show favorite icon in connection list** option.

4.5.3 Most Recently Used Entries

DESCRIPTION

This tab show the most recently used sessions on the local computer.



Most Recently Used Entries

The most recently used entries view can be personalized the same way as the tree view. Click on the *** button to select your preferred view.

To delete the most recently used entries history, select **Clear Most Recently Used Entries...**

By default, 10 items will be kept in the most recently used entries history. This setting can be changed in *File - Options - General - Recent*.

4.6 Content Area

DESCRIPTION

The content area contains the various dashboards to manage RDM, as well as embedded sessions. There is a single dashboard active at a time, depending on the currently selected node in the Navigation Pane. The options change depending on the entry:

- Sessions.
- Information Entries.
- Folders.
- Credentials.
- Macros/Scripts/Tools.

4.6.1 Embedded Sessions

DESCRIPTION

The **Embedded (tabbed)** display mode allows you to open multiple sessions as tabs withing Remote Desktop Manager, similar to the tabs in your standard web browser. Embedded sessions are one of the 3 available display modes, the other 2 being **External** and **Undocked**.

📑 Remote Desktop Manager - JafVM	[Default]										×
General More Permissions Password Management Session Recording VPN/SSH/Gateway User Interface Information	Name Folder Display Credentials		JafVM Enterprise\Sessio Embedded (tabbo External Embedded (tabbo Undocked	d)	nections	•	💽 off	I			
Jump Flost Events Sub Connections Logs > Management Tools Advanced	General	Display Host RDP typ	QA e Nor	JAF	Experience	Connection 	Advanced Port <u>Defaul</u>	t G			
Variables	Search prop	erty		n i					ОК	Canc	el:

Display Mode Settings

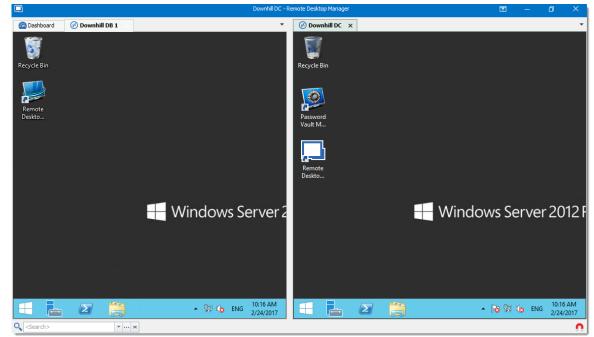
SPLIT WINDOWS

Within a Remote Desktop Manager embedded session is the option to display multiple tabbed windows simultaneously. As illustrated below, select and hold down on a tab and drag it towards the center of the screen to access the four-sided directional control. Aim the directional control to anchor the tab to the top, bottom, left or right of the adjacent tab.

🗈 🖆 🖋 😋 🔍 <host></host>	▼ ⊗	🖌 🔒 📼	Downhill DC - Remo	te Desktop Manager	6	Ð — I	□ ×
FILE HOME ACTIONS	EDIT VIEW ADMINISTR	ATION REFACTORING	TOOLS WINDOW	HELP			1 - E
Open Session Open Se	ion	Copy Username & Password Copy Username Copy Password Clin	Copy URL	Copy	· · · · · · · ·	Tools	\$
Navigation	A 🗙 🚳 Dashbo	-					Ŧ
Indivigation Individual (Admin) Name Imdigation Imdig	Passwore Vault M Remote Deskto					😨 🕼 eng	9-45 AM 2/24/2017
Search>	▼ ··· × 49 ENTRIES						0

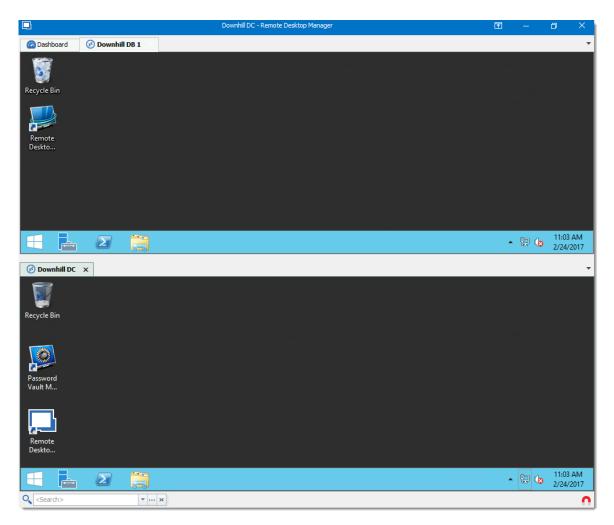
Split Window - Drag And Drop

Below is an example of a side-by-side split window.



Split Window - Side-By-Side

Below is an example of a top-down split window.



4.6.2 Dashboard

DESCRIPTION

The **Dashboard** displays commands and information related to the selected entry. The dashboard contents depend on the type of the selected entry.

Actions	Overview	Documentation	Macros/Scripts/Tools	Management Tools	Information	Sub Connections	Attachments	Logs	Recordings	
Open Session New Entry Properties	S	RDP (Microsoft Rer	- Copy note Desktop)							
			FOLDER	Enterprise\Ses	sions\Remote	Connections				
			HOST	test						
			USERNAME	test						
			PASSWORD	•••••						

Dashboard for credential entry

The different tabs available in the dashboard:

- Actions Add special Open actions to dashboard, similar to Open Session or Properties in the contextual menu. Configure in File – Options – User Interface
- Overview
- Documentation
- Macros/Scripts/Tools
- Management Tools: Configure the Hyper-V, VMware, XenServer Dashboard before using the dashboard.
- Information
- Sub Connections
- Attachments
- Logs
- Recordings

The tabs can be hidden if they are not necessary for a user.

Simply right-click any tab, then select an item to toggle the visibility of its relative tab.

Overview	~ ~	Overview	Tools	Management Tools	Information	Sub Connections	Attachments	Logs	Recording	
	~	Documentation								
S	~	Macros/Scripts/Tools								
	~	Management Tools								
	~	Information	DLDER	Enterprise\Sessions\Remote Connections						
	~	Sub Connections								
	~	Attachments	HOST	test						
	~	Logs		test						
	~	Recordings								
	_	PAS	SWORD	•••••						

4.7 Panes (Footer)

108

DESCRIPTION

Although the panes are by default in the footer, most tabbed windows can be moved around and docked to your liking. That applies to the Default (Ribbon) or Default (Menu) styles.

Use the *View – Footer* commands from the ribbon to control the visibility of individual panes.

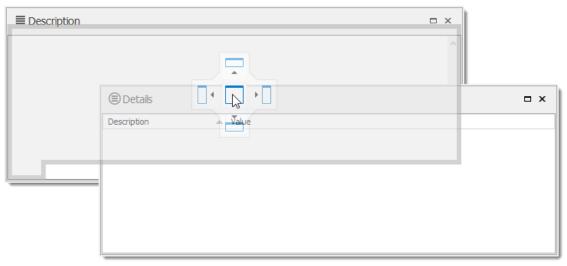
+ 🖍 😂 🔍 Quick Connect	<host></host>	• 🕑 🖌 🔒 🖴	- Remote Desktop Manager [Dashb	voard] 🥘 – 🔊 🗙
File Home Edit View	Administration T	Tools Window Help		
Vault My Private Opened Vault Panels	Advanced Search Advanced	🕅 📃 🖌 🖌 🖗	entral Lat V VPN Lat Tab Groups p(Script/Tool Lat C Documentation Search 10 Notification hronize Lat Q. Filter W Layout Layout	
Navigation	7 × 🚳 🛙	Dashboard		▲ · · · · · · · · · · · · · · · · · · ·
SQL Serv - Admin Name	• •••	RDPTest - Copy		\$
Bank Information Credit Card Credit Card Credit Card Login (Account) Login (Account) Doto/Secure Note Wayk Now	Acti Ope	+	Overview Documentation MacrospCorpt(Tools Management Tools Overview RDP Test - Copy ROP (Microsoft Remote Deatopy PoLDER Enterprise)Sess	Information SL Connections Attachments Loga Recordings
Web Mac Entries Default		Description		* *
 Image: Book of the second s	- O 89 ENTRIES			BITERPRUSE EDITION 2019.1.270 🔮 🐧

Footer Area

DOCKED FOOTER

Upon first use, the footer panes are undocked by default. You can dock them to a single panel with a simple drag & drop. Just drag a pane into another one, then drop the it in the center of the directional control.

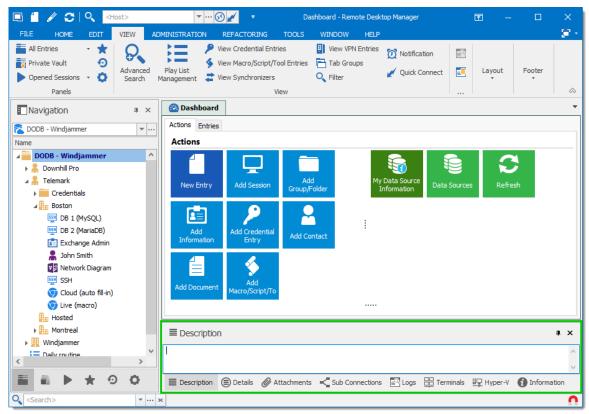
Here, we drop the **Details** pane to make it tabbed with the **Description** pane.



Dock a footer pane into another

You can use the same directional control to dock the footer panes into the main window.

Here is a personalized setup of the footer panes.



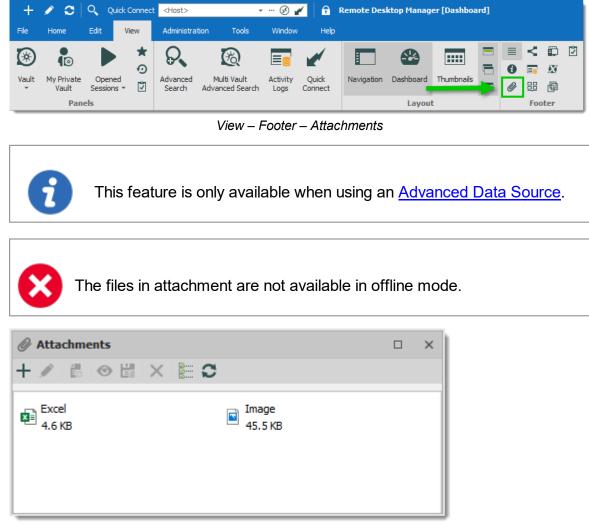
Footer panes docked in the main window

4.7.1 Attachments

DESCRIPTION

Files are attached to an entry and are stored directly in the database.

To enable the attachment pane, navigate to *View – Footer* in the ribbon, then select *Attachments*.



Attachment list

The attachment type and size are limited only by your bandwidth and the data source. You can also view a saved attachment from:

the session context menu;

- the session properties; or
- directly on the dashboard.

The refresh button allows you to update directly the selected document. Use it to save your local modifications after an edit.

ACTIONS

Use the toolbar above the attachment list to manage the selected attachment.

+ 🖉 💩 🛗 🗙 🔚 💭					
Attac	Attachment toolbar				
	DESCRIPTION				
Add attachment 🕂	Select a local file to add.				
Edit attachment 🖋	Edit the selected attachment.				
Update document	Update the selected attachment.				
View attachment	Open the selected attachment.				
Save attachment as 🛱	Save the attachment on a local drive.				
Delete attachment	Delete the selected attachment.				
Details 🔚	Display details about the selected attachment, above the attachment list.				
Refresh 😂	Refresh the attachment list.				

4.8 Status Bar

The status bar rests at the bottom of the application. It is composed of multiple parts

- Search / Filter.
- Remote Desktop Manager version label.
- The Online / Offline toggle.
- Grab input toggle.

🔍 <Search> 🗸 ... 😆 89 ENTRIES EDITION 2019. 1.27.0 💩 👖

Status bar

SEARCH / FILTER

Please consult the Search/Filter for detailed explanations.

ONLINE / OFFLINE TOGGLE

This feature is indicated by the green globe between the version label and the Grab input toggle. Clicking it will change your connection between offline and online (for RDM only). You can tell which connection state you are currently using by the color of the globe. Green is online and orange is offline.

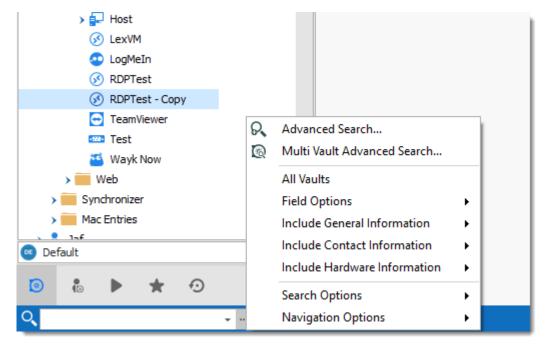
GRAB INPUT TOGGLE

Please consult Grab Input for detailed explanations.

4.8.1 Search/Filter

It is possible to apply a filter in the Navigation Pane tree view by typing some characters in the filter box. The filter is applied using the specified settings in the application *File – Options – User Interface – Filter*.

ELLIPSIS BUTTON



Select the ellipsis button to display the options.

Ellipsis button

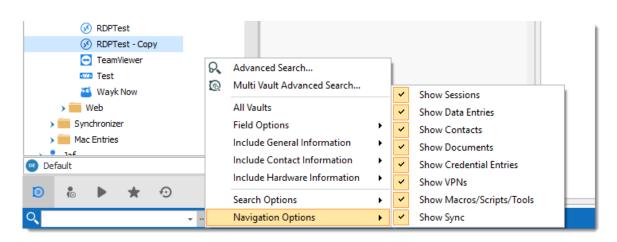
The filter expression is matched against fields as selected in the filter options such as:

- Search multiple or all Vaults at once.
- Field Options (Include Folder, Host, Username, etc.).
- General Information (Domain, IP, etc.).
- Contact Information (Name, Email, Phone number, etc.).
- Hardware Information (Serial number, Manufacturer, etc.).

It's possible to exclude results by choosing to display entries that match certain criteria:

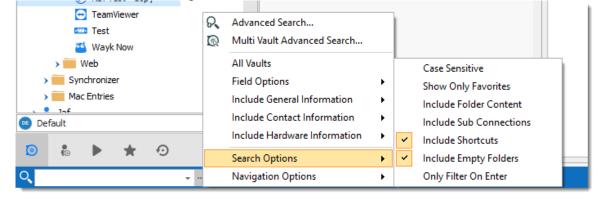
- Session types (credentials, script tools, VPN, etc.)
- If the session is marked as a Favorites

In Navigation options, you can limit the search parameters to specific entry types. Such as Sessions, Data Entries, etc.



Search Types

The Search Options offers the chance to customize your search, such as including shortcuts or favorites, making it case sensitive, and more!



Search Options

KEYBOARD SHORTCUT

Use the keyboard shortcut CTRL+F to quickly have access to the Search / Filter control. This can be disabled in *File - Options - User Interface - Keyboard.*

You can set the focus back on the Navigation Pane by using the keyboard shortcut Ctrl+L, this also can be disabled in the options.

BOOLEAN FILTER

Here a few implementation notes for the Boolean filter:

• We use the C# nomenclature (&& for AND, || for OR)

- Evaluated left-to-right
- No parentheses matching
- Double-quotes (") are not required or removed, they are part of the text filter, do not use them unless you are looking for a double-quote.
- Leading/trailing white-spaces are trimmed

EXAMPLES (THIS WILL WORK)

- Boise && Laptop
- Boise&&Laptop
- Boise && Laptop
- Baton Rouge || Boise && Laptop
- Laptop && Baton Rouge

EXAMPLES (THIS WILL NOT WORK AS EXPECTED)

- Laptop && "Baton Rouge"
- Will work but filter for the string "Baton Rouge" and not the string Baton Rouge
- Laptop && (Baton Rouge || Boise)
- Will work but filter for Laptop and the string (Baton Rouge || Boise)

4.8.2 Grab Input

DESCRIPTION

The **grab keyboard input** is used to capture the keyboard shortcuts when a session is running. It can be disabled momentarily to ensure that the shortcut is sent to the running session.

Ctrl+F is a shortcut that often interferes. It is used to focus Remote Desktop Manager's search/filter toolbar. However, it is almost always present in applications in the remote

session and when you use the shortcut, Remote Desktop Manager sets the focus in the search/filter toolbar instead. This conflict can be avoided by disabling the feature.



Grab keyboard input

4.9 Tray Icon

DESCRIPTION

Remote Desktop Manager allows the user to control the application from the Windows system tray. You can also <u>customize its content</u>.

TRAY ICON CONTEXT MENU

Right-click on the Windows tray menu bar to access the context menu. You can launch sessions, change data source, use the Quick Connect feature, and more.

•	Enterprise	•
C	Refresh	
	Opened Sessions	•
Ð	Recent	•
ŧΞ	Play List	•
	Data Sources	•
	Tools	۲
	Quick Connect	
	Filter	
	Maximize	
	Minimize	
	Exit	

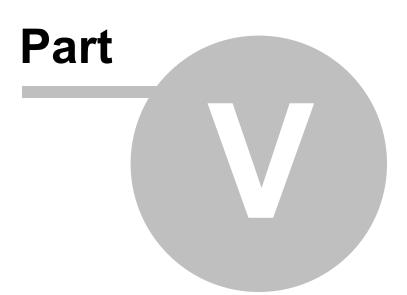
Tray Icon Context Menu

Sessions List	Displays the sessions from the current data source. Sessions are listed by default. It is possible to show only those marked as favorites.
Refresh	Refreshes the data source.
Opened Sessions	Lists all the currently open sessions.
Recent	Lists the Most Recently Used Entries.
Play List	Allows the user to launch a <u>Play List</u> from the tray icon.
Data Sources	Lists the available <u>Data sources</u> and allows the user to switch from one to another. This section appears only if enabled and more than one data source is configured.
Tools	Lists all the configured tools.
Quick Connect	Prompts for the Quick Connect dialog to open an add-hoc connection with a specific type, or a selected template.
Filter	Launches the <u>Search/Filter</u> feature.
Maximize	Restores the application to full screen.
Restore	Restores the application from minimize.
Minimize	Minimizes the application in the task bar.
Exit	Closes the application.

TRAY ICON PREFERENCES

The application options contain many settings that allows for customizing the system tray icon preferences. To change these, Navigate to *File – Options – User Interface – Trayicon/Taskbar*.

Data Sources



5 Data Sources

DESCRIPTION

The data sources are at the heart of Remote Desktop Manager, they are the container that holds entries.

SETTINGS

A data source can be a local file or a database (either local or shared). Multiple data sources can be managed at the same time as seen below.

📑 Remote Desktop Manager		×
+ 🖉 🕯 X 🎨 🗟 🔒		
General Settings Private Va	ult Upgrade VPN Advanced	
Name	Test SQL Se	erver -
Host	TestSQL	
Login mode	Database login 🗸	
Username	test	
Password	•••••	
	Always ask password Allow change username	
Database	TestDB	
Two factor	None	Test Server
		Test Database
Type Name		▼ Locked
🥭 Test		
SQL Serv - UReg		
SQL Serv - Admin QA-LEX Duo		
Local Data Source		
On start up	rce 🔹	OK Cancel

Data Source

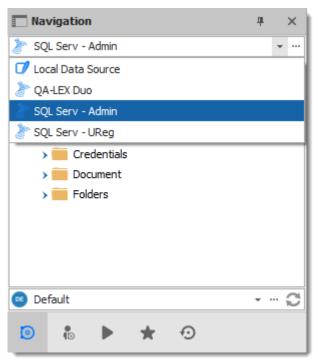
CREATE A DATA SOURCE

Please consult our <u>Create a new data source</u> topic for more information.

MULTIPLE DATA SOURCES

Multiple data sources can be configured, but there is only one active at a time.

Switch from one data source to another by using the data source drop down list.



Select a Data Source

STARTUP DATA SOURCE

You may assign a data source to open automatically when Remote Desktop Manager starts.

_] Remote	Desktop M	anager						×
+ 🖉 🤇	🛛 🗙 🞼	S 🔒						
General	Settings	Private Vault	Upgrade	VPN	Advanced			
Na 🖉	me	SQ	L Serv - Admin			SQL Serve	er	÷
							Test	Database
Туре	Name					 		Locked
	Name Local Data S	Source					*	Locked
							A	Locked
0 *	Local Data S)					*	Locked
	Local Data S QA-LEX Duo	Admin					*	Locked
0 *	Local Data S QA-LEX Duo SQL Serv - J SQL Serv - U	Admin	e				*	Locked
0 *	Local Data S QA-LEX Duo SQL Serv - J SQL Serv - L Use de	Admin UReg	e				*	Locked
0 *	Local Data S QA-LEX Duo SQL Serv - J SQL Serv - U Use de Last u) Admin UReg efault data sourc	-				*	Locked

Startup Data Source

Use default data source	Select the data source to connect to when the application starts.
Last used data source	Connect to the last used data source.
Prompt for data source	Prompt the user to for a data source to connect to.

DATA SOURCE SETTINGS (SYSTEM SETTINGS)

<u>Advanced Data Sources</u> can manage a lot more settings related to the database and security. Those settings are saved directly in the database. For more information, please consult the <u>Data Source Settings (System Settings)</u> topic.

5.1 2-Factor Authentication

DESCRIPTION

This feature is only available for the following data sources: <u>Devolutions</u> <u>Server</u>, <u>MariaDB</u>, Microsoft Access, <u>Microsoft SQL Azure</u>, <u>Microsoft SQL</u> <u>Server</u>, <u>MySQL</u> and <u>SQLite</u>.

Two-factor authentication identifies users by two different components: something that the user knows (often a password) and something that the user possesses (e.g. a validation code sent to a mobile device).

If one of the components is missing or supplied incorrectly, the user's identity is not established with sufficient certainty and then access to the data source will remain blocked.

Remote Desktop Manager supports Google Authenticator, Yubikey, Duo and AuthAnvil.

HOW TO CONFIGURE TWO-FACTOR AUTHENTICATION

Example of how to configure 2FA with Google Authenticator

SETTINGS

1. Two factor authentication is set in the **Data Source Configuration**. You can set 2FA when creating a new data source or edit an existing data source. To edit your data source, click *File – Data Sources*. Click the pencil 🖉 to edit the data source.

🔲 Remote Desktop Manager			×
+ 📝 🕯 🗙 🗞 🚳			
General Settings Private Va	ult Upgrade VPN Advanced		
Name	SQL Serv - UReg	SQL Server	Ŧ
Host			
Login mode	Database login 👻		
Username	UReg		
Password	•••••		
	Always ask password		
	Allow change username		
Database	JafJafDen		
Two factor	None		Test Server
			Test Database
Type Name			▲ Locked
脧 SQL Serv - UReg			
On start up Last used data sou	irce 👻		OK Cancel

Edit - Data Source Configuration

2. To set 2FA on the data source, click the **None** hyperlink.

📮 Remote Desktop Ma	📮 Remote Desktop Manager - Microsoft SQL Server 🦳 🗆				
Micros	oft SQL Server				
General Settings	Private Vault Upgrade Advanced				
Name	SQL Server	SQL Server 🗸 🗸]		
Host	DEVOLUTIONS: \SQLEXPRESS				
Login mode	Database login \sim				
Username	RDMAdmin				
Password	•••••				
	Always ask password				
	Allow change username				
Database	test				
Two factor	None			st Server : Database	
			ОК	Can	cel

Data Source Configuration

3. In the next window, click **Change**.

💽 Rem	ote Desktop Manager - 2-Factor Configuration		×
)}}	2-Factor Configuration		
Туре	None <u>Change</u>		
		Clo	se

Two-Factor Configuration window

3. Choose the type of 2-Factor Authentication you wish to use.

🔲 Rem	ote Desktop Manager - 2-Factor Configuration	—		×
)}}	2-Factor Configuration			
Туре				
	None Google Authenticator			
	Yubikey Duo			
	AuthAnvil			
			Clos	e

Two-Factor Configuration window

4. Once you have selected your 2FA click **Save** to start the configuration.

To configure the 2FA you use, please see the topic about supported 2FA types:

- Google Authenticator
- Yubikey
- <u>Duo</u>
- AuthAnvil
- 5.1.1 Google Authenticator

DESCRIPTION

Remote Desktop Manager allows you to use Google Authenticator to provide an additional security layer when opening a data source.

SETTINGS

Before you start the configuration, make sure you have installed the <u>Google Authenticator</u> application on a supported device.

1. Select Google Authenticator as your 2-Factor Authentication and click on Save.

🔲 Rem	ote Desktop Manager - 2-Factor Configuration			×
)}}	2-Factor Configuration			
Туре	Google Authenticator Save Cancel	*		
			Clos	e

Google Authenticator Configuration

2. Once you have installed the application, scan the QR code on your screen with the Google Authenticator application to setup Remote Desktop Manager in Google Authenticator. When Remote Desktop Manager is configured in Google Authenticator, enter the Validation code provided by Google Authenticator in Remote Desktop Manager. Enter the Validation code and then click on **Validate**.

Secret key							
Account	SQL Serv - UReg						
Validation code		Ø					
		Validate	Cancel				

Google Authenticator Setup

3. Relaunch Remote Desktop Manager and select the protected data source to be prompted for the Google Authenticator code.

Remote Desktop	Remote Desktop Manager				
Google Authenticator Validation					
Account Key	59B8794E-B470-4FBE-B6A5-77FA709720EF				
	Validate	Cancel			





Google Authenticator generates a new validation code every 30 seconds. Please consult your device application documentation for more details.

5.1.2 Yubikey

DESCRIPTION

Remote Desktop Manager allows you to use a Yubikey to provide an additional security layer when opening a data source.



Remote Desktop Manager only support the Yubico OTP at this time.

SETTINGS



Before you start the configuration, make sure you have a <u>Yubikey</u> in your possession.

1. Select Yubikey as your 2-Factor Authentication and click on Save.

📑 Rem	Remote Desktop Manager - 2-Factor Configuration			×
) }}	2-Factor Configuration			
Туре	Yubikey -			
			Clos	se

Yubikey Configuration

2. Insert the Yubikey into a USB port of your computer and hold the gold button on the Yubikey to have the code filled in the field, then click on **Save**.

Remote Desktop Manager - Yubikey Setup		
\heartsuit	Yubikey Setup	
YubiKey	•••••	
	Save Cancel	

Yubikey Authentication

3. Relaunch Remote Desktop Manager and select your protected data source to be prompted for a Yubikey code.

💶 Remote Desktop Manager			×
🕐 Арр	lication Login		
Yubikey			
		Logon	Cancel

Yubikey Application login

5.1.3 Duo

DESCRIPTION

Remote Desktop Manager allows you to configure a Duo Authentication to provide an additional security layer when opening a data source.

SETTINGS

Before you start the configuration, make sure you have created yourself a Duo account and also have installed the Duo application on your compatible device.

There is three methods to use with Duo: by land line, by text message or by using their application.

1. In your Duo account you will need to protect the application Web SDK.

Horizon View	VMware View	Protect this Application	I	Read the documentation ⊡
	Web SDK	Protect this Application	1	Read the documentation 🗗
	WordPress	Protect this Application	I	Read the documentation 🗗

Web SDK application

2. In Remote Desktop Manager select Duo as your Two factor authentication and click on **Duo – General Settings**.

📑 Rem	Remote Desktop Manager - 2-Factor Configuration			×
0)}}	2-Factor Configuration			
Туре	Duo - General Settings			
			Clos	e

2-Factor Configuration

3. All the information necessary to fill in the **Duo Settings** fields will be generated by your Duo account.

Dashboard > Applications	> Web SDK	
Web SDK		
See the Duo Web SDK	Documentation 🗗 to integrate Duo into your custom web	application.
Details		
Integration key	DIJCLD	select
Secret key	QwMZ	select
	Don't write down your secret key or share it with anyone.	
API hostname	api-b8 duosecurity.com	select
	L	

Duo Account - Web SDK

4. Copy and paste all the information and click on **Check** to validate the information.

Remote Desktop Ma Duo Set	×	
Integration key Secret key API Hostname Duo username		
Check	OK Cancel	

Duo Settings

5. Click on **Save** to authenticate yourself with your Duo account that has just been activated.

📑 Rem	ote Desktop Manager - 2-Factor Configuration		×
0)}}	2-Factor Configuration		
Туре	Duo Save Cancel Duo - General Settings		
		Clos	e

Duo Confiugration - Save settings

6. If you have more than one device connected to your Duo account, select the device you wish to use for your 2-Factor authentication.

3	Remote Desktop Manager	×
🕒 Duo se	etup - Choose a device	
Device iOS (XXX-XXX-)	Use this device 🜔
Device Generic Smartp	hone	Use this device 🜔
Device Landline (XXX-X	xx)	Use this device 👂
		Cancel

Duo setup - Choose a device

7. Select the method by which you would like to receive your Duo Passcode.

- Duo Push: The code is "pushed" to your Duo application.
- Send SMS: You will receive the code by SMS on your registered phone number.
- **Phone**: You will receive a phone call and a computer generated voice will dictate the code to you.

Remote Desktop Manager - Duo Authentic × Duo Authentication					
Account Android (XXX-XXX-)					
✓ Duo Push ■ Send SMS ■ Phone					
Passcode					
Use Alternate Validate Cancel					

Duo Setup

Once you have completed all the steps, you will be prompted with the Duo Authentication every time you connect to your secured data source.

5.1.4 AuthAnvil

DESCRIPTION

Remote Desktop Manager allows you to use AuthAnvil Authenticator to provide an additional security layer when opening a data source.

SETTINGS

Before you start the configuration in Remote Desktop Manager, make sure you have created and configured your AuthAnvil account. For more information please consult <u>https://authanvil.com/features/two-factor-authentication</u>.

1. Select AuthAnvil in Remote Desktop Manager as your 2-Factor Authentication and click on **Save**.

📑 Rem	ote Desktop Manager - 2-Factor Configuration	_		×
\$	2-Factor Configuration			
Туре	AuthAnvil			
			Clos	se

AuthAnvil Configuration

2. Enter the information of your AuthAnvil account and click on **Check** to validate the entered information.

Remote Desktop Manager - AuthAnvil Settings		
🗑 AuthAi	nvil Settings	
API Hostname Site id		
Check	OK Cance	9

AuthAnvil Settings

5.2 Caching

DESCRIPTION

The caching mode will determine how the client will refresh the content of the data source when changes are detected. On large data sources caching is essential as it increases performance significantly.



This feature is only available when using an <u>Advanced Data Source</u>.



If the cache is outdated, press **CTRL + Refresh** or **CTRL + F5** to refresh the local cache. This will force the application to retrieve the entire content of the data source to recreate the cache.

SETTINGS

The **Caching mode** option can be access via the *File – Data Sources – Edit Data Source – Advanced tab* of an <u>Advanced Data Source</u>.

Disabled Intelligent			
0 📮 sec			
Prompt for offline mode on startup			
Allow beta database upgrade			

Caching Mode

Disabled	No client caching.

Intellige nt	Intelligent cache has the ability to handle many more sessions without experiencing performance degradation.
	In the case of intelligent cache each modification performs a token update on the server. When Remote Desktop Manager performs a refresh action it will query the data source for any changes (delta) of changes to be applied client side since it last checked the data source. The delta of the changes is then sent to the application and applied locally.
	When first opening the data source Remote Desktop Manager will loaded the session from the offline file then refresh to get the up-to date information.

LOCATION

The client cache is persisted to disk in **%LocalAppData%** \Devolutions\RemoteDesktopManager\[GUID:DataSourceID]

There are three engines for the cache:

- SQLite (offline.db).
- MCDF (offline.mcdf).
- MCDF v2.0 (offline.mcdf2).

If using a version of Remote Desktop Manager prior to 11.2, the default engine will be the **SQLite**, in that case the database is encrypted using a non-portable computed key hash.

If using version 11.2 or newer of Remote Desktop Manager the default cache engine will be the **Microsoft Compound Document Format (MCDF)** files.



You can enhance the security of the offline file by setting the Enhanced security in *File – Options – Security – Offline Security.*



Depending on the configuration of the Caching mode & the <u>Offline mode</u> the offline file may still exist since the file servers as a dual purpose caching & offline line support.

5.3 Create a data source

SETTINGS

1. Open the **Data Source Configuration** window in *File - Data Sources* or by clicking the **ellipsis** button (Will only show if you already have 2 existing data sources configured in Remote Desktop Manager) at the top of the Navigation Pane.

Navigation	н ×
SQL Serv - Admin	÷
Name	
🗸 📒 SQL Serv - Admin	
> 🔓 Enterprise	
Default	C
U Delaur	* " V
• 🛧 🕘 🔞	

Open Data Source menu

2. Click the Add a New data source + button.

Remote Desktop Manager		×
+ 🖉 🕯 🗙 🗞 🗞 🙆		
General Backup VPN Advanced		
Name Local Data Source		
Database		
Password		
Always ask password	1	
Test Connection		
Two factor None		
Type Name		▲ Locked
Local Data Source		
On start up Last used data source	• OK	Cancel

Add a new Data Source

3. Select the type of data source to create.

Remote Desktop Manager -			×
All	Individual Devolutions Online Drive Free Google Drive Free	Dropbox Free SQLite Free	^
	Xml Free Team Microsoft Access Enterprise MariaDB	FTP Enterprise MySQL	-
	Enterprise Devolutions Online Database Enterprise Amazon S3 Enterprise Microsoft SQL Server Enterprise	 Enterprise Devolutions Password Server Enterprise SFTP Enterprise Microsoft SQL Azure Enterprise 	
	Web Enterprise	WebDav Free	OK Cancel

Select your Data Source type

4. Configure the connection settings. To validate the information, click the **Test Server** or **Test Connection** (depending on the type of data source being creating).

🔳 Remote Desktop Manager - Microsoft SQL Server 🛛 🗖 🗆		
😂 Microsoft S	QL Server	
General Settings Private	Vault Upgrade VPN Advanced	
Name	SQL Server	· •
Host		
Login mode	Database login -	
Username		
Password		
	Always ask password	
	Allow change username	
Database		
Two factor	None	Test Server Test Database
ID 707CB610-6799-4562-9B	62-EA06240A300F	OK Cancel

SQL Server - Connection Tab

5. Once created, select the new data source by selecting it from the data source drop down list at the top of the Navigation Pane.

Navigation	щ	×		
🐉 SQL Serv - Admin		¥		
🕖 Local Data Source				
者 QA-LEX Duo				
🚴 SQL Serv - Admin				
SQL Serv - UReg				
> Credentials				
> Document	> Document			
> Folders				
😐 Default 🔹 🐨 💭				
o to				

Select your Data Source

5.4 Data Source Types

DESCRIPTION

Remote Desktop Manager supports multiple types of data source. To start, decide which data source you'll be using.

Upon initial installation, you will be running from a local data source which is a SQLite database.

DATA SOURCE TYPES

Devolution s Online	Remote Desktop Manager connects to the Devolutions Online	Pros:

		PROS AND CONS
Database	Database vault. Note that there are different subscription levels for this product. The Basic is suitable for micro- teams (up to 3 users), while the Professional and Enterprise editions are for larger teams. For more information, please see the <u>Online Database section</u> .	 Quick. Reliable. Secure. Shareable. Cons: Cannot be hosted on premises.
Devolution s Online Drive	Remote Desktop Manager uses Devolutions Online Drive to store and synchronize your sessions. Access your sessions from anywhere using a simple Internet connection. For more information, please consult our <u>Online Drive</u> topic.	Pros: • Quick. • Reliable. • The service is free. Cons: • No possibility for sharing. • No security management.
Devolution s Server	Remote Desktop Manager uses Devolutions Server to store session information. For more information, please consult our <u>Devolutions Server</u> topic.	Pros: • Quick. • Reliable. • Secure.

		PROS AND CONS
		 Supports all features, such as <u>attachments</u>, connection log, <u>Offline Mode</u> and <u>User</u> <u>Management</u>. Active Directory integration. Cons Installation required.
Dropbox	Remote Desktop Manager uses the Dropbox API to retrieve the XML file from the configured repository. For more information, please consult our <u>Dropbox</u> topic.	 Pros: Can be shared in read-only mode. Backups (by Dropbox) are automatic. Storage infrastructure is free (if within your free storage quota). Cons: No security management. There is a possibility for conflict or data corruption to occur. Doesn't support all features, such as <u>attachments</u>, connection logs and <u>User Management</u>. The Dropbox integration uses the Dropbox SDK, so any features that are exclusive to the

		Business or Enterprise editions are NOT supported.
MariaDB	Remote Desktop Manager uses MariaDB to save and manage all sessions. This is one of the available data source for a multi- user environment. For more information, please consult our <u>MariaDB</u> topic.	 Pros: Quick. Reliable. The database is free and can be installed on Linux. Supports all features, such as <u>attachments</u>, connection log, <u>Offline mode</u> and <u>User Management</u>. Cons: MariaDB needs to be installed.
Microsoft SQL Azure	Remote Desktop Manager uses the Microsoft cloud platform to save and manage all sessions. For more information, please consult our <u>SQL Azure</u> topic.	Pros: • Quick. • Reliable. • Secure. • Supports all features, such as attachments, connection log, Offline mode and User Management. Cons:

		PROS AND CONS
		 Microsoft Azure needs to be configured.
Microsoft SQL Server	Remote Desktop Manager uses SQL Server to save and manage all sessions. This is one of the available data source for a multi- user environment. For more information, please consult our <u>SQL Server (MSSQL)</u> topic.	Pros: • Quick. • Reliable. • Secure. • Supports all features, such as attachments, connection log, Offline mode and User Management. • SQL Server Express is free. Cons: • SQL Server must be installed.
MySQL	Remote Desktop Manager uses a MySQL database to save and manage all sessions. This is one of the available data source for a multi-user environment. For more information, please consult our <u>MySQL</u> topic.	 Pros: Quick. Reliable. The database is free and can be installed on Linux. Supports all features, such as attachments, connection log, Offline mode and User Management. Cons:

		PROS AND CONS
		• MySQL needs to be installed.
Devolution s Password Hub Business	Remote Desktop Manager connects to the Devolutions Password Hub Business vault. Note that there are different subscription levels for this product. For more information, please see the <u>products features and highlights</u> and consult our <u>topic</u> .	Pros: • Quick. • Reliable. • Secure. • Shareable. Cons: • Cannot be hosted on premises. • No offline mode
Devolution s Password Hub Personal	Remote Desktop Manager uses Devolutions Password Hub Personal to store and synchronize your sessions. Access your sessions from anywhere using a simple Internet connection. For more information, please consult our <u>Password Hub</u> <u>Personal</u> topic.	Pros: • Quick. • Reliable. • The service is free. Cons: • No possibility for sharing. • No offline mode
SQLite	Remote Desktop Manager uses a SQLite database to store session information.	Pros: • Quick. • Reliable.

		PROS AND CONS
	For more information, please consult our <u>SQLite</u> topic.	 The database is free. Supports all features, such as <u>attachments</u> & connection logs. Cons:
		No possibility for sharing.
		 No security management.
WebDAV	Remote Desktop Manager uses an HTTP connection to retrieve the XML file on a WebDav server.	Pros:Can be shared in read-only mode.
_	For more information. please consult our <u>WebDAV</u> topic.	 Easy to deploy online. Cons:
		No security management.
XML	Remote Desktop Manager saves the settings directly in a file with the XML format.	Pros: • Easy backup.
XML	For more information, please consult our XML topic.	 Can be edited manually or by an external system. Nothing to install.
		Cons: • No possibility of sharing. • No security management.

	 There is a possibility for conflict or data corruption to occur. Doesn't support all features, such as <u>attachments</u>, connection logs and <u>User</u> <u>Management</u>.

5.4.1 Advanced Data Sources

DESCRIPTION

Advanced Data Sources are highly configurable data sources, typically running on an advanced management system, such as a database management system or our own online services.

Advanced Data Sources greatly increase the set of managing features available to administrators, such as:

- Document uploads and Entry Attachments.
- Auditing and logging.
- Advanced security with User management and User Groups based security system.
- Offline mode.
- <u>Multi-Factor Authentication</u>

Currently the Advanced Data Sources are:

- Devolutions Server.
- <u>MariaDB</u>.
- <u>MySQL</u>.
- Microsoft SQL Azure.

- Microsoft SQL Server (MSSQL).
- Devolutions Password Hub Business.
- 5.4.1.1 Devolutions Online Database

DESCRIPTION

Please consult topic <u>Online Database</u> for information on this service.



The <u>User Groups Management</u> feature is not available in Devolutions Online Database. Only the Security Group Management system is offered with this type of data source.

SETTINGS

GENERAL

Remote Desktop Manager - De	volutions Online Database	-		×
Devolutions	Online Database			
General User Vault VPN	Advanced			
Name Username Connection mode	Create an account for free Default			
	Prompt for credentials			
Database	🕲			
Database ID				
Two factor	None			
ID		ОК	Cano	el

Devolutions Online Database - General Tab

Name	Name of the data source.
Always ask password	Always ask password when connecting to the data source.
Create an account for free	Create a new Devolutions Account.
Database	Name of the data base created online. You must use the ellipsis button to select it from the list of online data sources available to the name.
Database ID	Unique Key to identify the data source.

Two factor	Enable the <u>2-Factor Authentication</u> to access your data source.
Test Credentials	Test the credentials that you have configured to connect on Remote Desktop Manager Online.

USER VAULT

Connect your **Devolutions Online Database** to a **User Vault** stored in a **Devolutions Online Drive** file (.dod), thus creating your own **User Vault** containing entries and credentials that no one else has access to.

For more information please see User Vault.

Remote Desktop Manager - Devolutions Online Database	-	٥	×
Devolutions Online Database			
General User Vault VPN Advanced Image: Type Image: Online Drive Image: Online Drive			
Filename			
Master key			
ID	ОК	Can	cel

Devolutions Online Database - User Vault

VPN

Open a VPN to access your data prior to connecting to your **Devolutions Online Database**.

Remote Desktop Manager - Devolutions Online Database	-		×
Devolutions Online Database			
General User Vault VPN Advanced			
Type On first connect RDM File	۲		
Override credentials			
Username			
Domain			
Password			
ID	ОК	Cano	el

Devolutions Online Database - VPN

ADVANCED

Remote Desktop Manager - Devolutions Online Database	-		×
Devolutions Online Database			
General User Vault VPN Advanced			
Caching mode Intelligent Ping online method None Auto refresh 0 ‡ sec Prompt for offline mode on startup Auto go offline			
ID	ОК	Cano	el

Devolutions Online Database - Advanced

	DESCRIPTION
Caching mode	Determine how the entries will be loaded from the data source. See <u>Caching</u> topic for more information.
Ping online method	Indicate the prefer ping online. Select between: • None • Web request
Auto refresh	Set the interval for the automatic refresh.
Prompt for offline mode on startup	Every time you will connect to your data source, you will be prompted to use the data source in offline mode.

Auto go offline	If the ping online method doesn't work it will automatically go offline.
Disable lock	Disable the option to lock the data source directly. The application still can be locked but the user is not prompted for the data source password when unlocking the application.

5.4.1.2 Devolutions Server

DESCRIPTION

Devolutions Server (DVLS) allows to control access to privileged accounts and manage sessions through a secure solution. For more information, consult the product's web site <u>here</u>.

HIGHLIGHTS

- Highly secured server for your company.
- Shared connection and credentials with multiple users.
- Installed on-premises; can be deployed online.
- Support Windows authentication and Active Directory group integration.
- Optimized client and server side caching.



Devolutions Server supports **Microsoft SQL Server** and **Microsoft SQL Azure** as a data store.

For more information, please consult these topics:

Devolutions Server installation instructions

Devolutions Server Security Checklist

CONFIGURE THE SERVER DATA SOURCE ON ALL YOUR CLIENT MACHINES

Enter a name of the data source and the URL for the Host. Ensure you use the correct protocol if SSL is required by the server (https).

Export the data source, then import the file in your client workstations as described <u>Import/Export Data Source</u>.

SETTINGS

GENERAL

Remote Desktop Manager - Devolutions Password Server			×
Devolutions Password Server			
General Settings User Vault VPN Advanced			
Name Host Use Windows authentication Use Office365 authentication Prompt for credentials Username Password Always ask password			
	Test Co	onnection	1
ID	ОК	Can	cel

Devolutions Server - General

	DESCRIPTION
Name	Enter a name for the data source.
Host	Enter the URL of the DVLS instance.
	<pre>Example: http://<hostname address="" ip="" or="">/<instance name=""></instance></hostname></pre>
Use Windows authentication	Use the same credentials are your current Windows user.
Use Office365 authentication	Use the same credentials as your current Office365 user. Choose an authentication option:
	• Default : Create a new authentication token each time and keeps it in the memory only.
	• Persistent : Takes the saved token, if it does not exist, will create a new one and save it.
	• Linked account: Takes a saved token from Windows (registry).
Always prompt for credentials	Always ask for the username and password when connecting to the data source.
Username	Enter the username to connect to the data source.
Password	Enter the password to connect to the data source.
Always ask password	Always ask for the password when connecting to the data source.
Test Connection	Test the connection with Devolutions Server to validate the credentials.

SETTINGS

Remote Desktop Manager - Devolutions Password Server	-		×
Devolutions Password Server			
General Settings User Vault VPN Advanced			
Default Default Local Via data source	Manaç	e Cache	
ID	ОК	Canc	el

Devolutions Server - Settings

Remote tools access mode	Select whether the Remote Tools will be accessed locally or through the host.
Manage Cache	Manage the data source cache. On large data sources caching is a must and will increase performance significantly. For more information, please consult the <u>Manage Cache</u> topic.

USER VAULT

Remote Desktop Manager - Devolutions Password Server	-		×
Server Devolutions Password Server			
General Settings User Vault VPN Advanced Image: Type Online Drive Image: Type Image: Type Image: Type Filename Image: Type Image: Type Image: Type Image: Type Image: Type Master key Image: Type Image: Type Image: Type Image: Type Image: Type Master key Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Type Image: Type			
ID	ОК	Canc	cel

Devolutions Server – User Vault

Туре	Select the type of <u>User Vault</u> to use. Select between:
	• Default : use the default User Vault, which is stored in the database.
	None: disable the User Vault for all users.
	 Online Drive: use a Devolutions Online Drive file (*.dod) as a User Vault.

VPN

Open a VPN to access your data prior to connecting to your **Devolutions Server**.

Remote Desktop Manager - Devolutions Password Server	-		×
Server Devolutions Password Server			
General Settings User Vault VPN Advanced			
Type On first connect RDM File	۲		
Override credentials			
Username			
Domain			
Password			
ID	ОК	Cano	:el

Devolutions Server - VPN

ADVANCED

Remote Desktop Manager - Devolutions Password Server	-		×
Server Devolutions Password Server			
General Settings User Vault VPN Advanced			
Caching mode Intelligent Ping online method None Popup license expiration All			
 Auto refresh Prompt for offline mode on startup Auto go offline 			
ID	ОК	Cano	el

Devolutions Server - Avanced

Caching mode	Determines how the entries will be reloaded in the data source. For more information, please consult the <u>Caching</u> topic.
Ping online method	Indicate the preferred ping online method. Select between: • None • Web request
Popup license expiration	Determine how the application advises of the license expiration. Select between: • All • Only Administrator(s) • Disabled

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Auto refresh	Set the interval for the automatic refresh.
Prompt for offline mode on startup	Ask to use the data source in offline mode when the user connects to the data source.
Auto go offline	Use the data source in offline mode when the ping method does not respond.
Disable lock	Disable the option to lock the data source directly. The application still can be locked but the user is not prompted for the data source password when unlocking the application.

5.4.1.3 MariaDB

DESCRIPTION



Remote Desktop Manager uses **MariaDB** as a drop-in replacement for **MySQL**. It is only supported in the Enterprise edition.

For added security, you can enable SSL Encryption to communicate with your instance of MariaDB Server.

Please follow directions on <u>https://dev.mysql.com/doc/connector-net/en/connector-net-6-10-connection-options.html</u>.

HIGHLIGHTS

• The data can be shared on a MariaDB database installed on any Operating System MySQL supports.

• Full connection log and attachments support.

SETTINGS

GENERAL

Remote Desktop Manager - MariaDB	-		×
Se MariaDB			
General User Vault Upgrade VPN Advanced			
Name Host Port 3306 ‡			
Username Password Always ask password Allow change username			
Schema			
Two factor <u>None</u>			
	Те	st Host	
	Test	Schema	
ID	ОК	Canc	el

MariaDB - General

Name	Name of the data source.
Host	Name of the host (server name) where the data source will be stored.

Usernam e	Username used to access the host server.
Password	Password used to access the host server.
Always ask password	Always prompts for the user to input a password when connecting to the data source.
Allow change username	Allows the user to change the username. This specific setting will save the currently type username (unlike similar features such as "Always prompt for credentials").
Schema	Name of the schema (database) on the MySQL server.
Two factor	Enable the <u>2-Factor Authentication</u> to access your data source.
Test Host	Test the connection with the host (server name) to validate if the proper information has been provided.
Test Schema	Test the connection with the schema to validate if the proper information has been provided.

USER VAULT

Connect your **MariaDB** to a **User Vault** stored in a **Devolutions Online Drive** file (.dod), thus creating your own **User Vault** containing entries and credentials that no one else has access to.

For more information please see User Vault.

Remote Desktop Manager - MariaDB	-		×
Se Maria DB			
General User Vault Upgrade VPN Advanced			
Type Online Drive			
Filename			
✓ Always ask master key			
ID	ОК	Canc	el

MariaDB - User Vault

UPGRADE

🔲 Remote	Desktop Mar	nager - Mari	aDB				-		×
	MariaD	В							
General	User Vault	Upgrade	VPN	Advanced					
					Test Host				
				C	reate Schema				
				U	odate Schema				
				Va	lidate Schema				
				-	Test Schema				
				Email S	Schema to Support				
ID							ОК	Can	rel

MariaDB - Upgrade Tab

Test Host	Test the connection with the Host (server name) to validate if the proper information has been provided.
Create Schema	Create the schema (database) on the MariaDB server to use Remote Desktop Manager.
Update Schema	Update the schema (database) on the MariaDB server, if required, to use Remote Desktop Manager.
Test Schema	Test the connection with the schema (database) to validate if the proper information has been provided.
Email Schema to Support	Send your schema (database) to the Devolutions Support team.

VPN

Open a VPN to access your data prior to connecting to your MariaDB.

Remote Desktop Manager - MariaDB	-		×
Se MariaDB			
General User Vault Upgrade VPN Advanced			
Type On first connect	۲		
RDM File			
Override credentials			
Username			
Domain			
Password			
ID	ОК	Canc	el

MariaDB - VPN

ADVANCED

Remote Desktop Manager - MariaDB	-		×
Se Maria DB			
General User Vault Upgrade VPN Advanced			
Caching mode Intelligent Ping online method None Connection timeout 5 \$ sec Command timeout 60 \$ sec Auto refresh 0 \$ sec Prompt for offline mode on startup Auto go offline	More	e Settings	
ID	ОК	Cano	cel

MariaDB - Advanced

Caching mode	Determine how the entries will be reloaded in the data source. See <u>Caching</u> topic for more information.
Ping online method	Indicate the prefer ping online. Select between: • None • Port Scan
Connection timeout	Waiting time before a connection timeout.
Command timeout	Waiting time before a command timeout.

	DESCRIPTION
Auto refresh	Set the interval for the automatic refresh.
Prompt for offline mode on startup	Every time you will connect to your data source, you will be prompted to use the data source in offline mode.
Auto go offline	If the ping online method doesn't work it will automatically go offline.
Disable lock	Disable the option to lock the data source directly. You can still lock the application but you won't be prompted for the database password if this option is disabled.
More Settings	Directly edit the connection string values.

5.4.1.4 MySQL

DESCRIPTION



Remote Desktop Manager uses a MySQL database to store the session data. It is only supported in the Enterprise edition.





We recommend using MySQL version 5.5.62 for this data source.

HIGHLIGHTS

- The data can be shared on a MySQL database installed on any Operating System MySQL supports.
- Full connection log and attachment support.
- Integrated Security support (Requires a v5.5.16 commercial distribution of MySQL).

SETTINGS

GENERAL

🔲 Remote Desktop Mana	ager - MySQL	-		×
MySQL				
General User Vault	Upgrade VPN Advanced			
Name Host	Port 3306 ‡			
Username	Integrated security			
Password	Always ask password Allow change username			
Schema				
Two factor	None			
		<u> </u>	st Host Schema	
ID		ОК	Canc	el

MySQL - General Tab

Name	Name of the data source.
Host	Name of the server where the data source will be store.
Port	If not using the default port, enter your Port number.
Integrated Security	When enabling the Integrated Security, the user and password field will be disabled because the operating system will provide a cached copy automatically. Please see <u>Integrated Security</u> for more information.
Username	Username to access the MySQL server.
Password	Password to access the MySQL server.

Always ask password	Prompt for the password when a user connects to the data source.
Allow change username	Allow the username to be edited when connecting to the data source. (Only with Always ask password enabled)
Schema	Name of the schema on the MySQL server for the utilization of Remote Desktop Manager.
Two factor	Enable the <u>2-Factor Authentication</u> to access your data source.
Test Host	Test the connection with the Host (server) to validate if the proper information has been provided.
Test Schema	Test the connection with the schema to validate if the proper information has been provided

USER VAULT

🔲 Remote Desktop Manager - MySQL	-	٥	×
MySQL			
General User Vault Upgrade VPN Advanced Image: Type Online Drive Image: Type Filename Image: Type Image: Type Master key Image: Type Image: Type			
✓ Always ask master key			
ID	ОК	Cano	cel

MySQL - User Vault Tab

	DESCRIPTION
Туре	Select the type of User Vault to use. Select between:
	• Default : use the default User Vault, which is stored in the database.
	• None: disable the User Vault for all users.
	• Online Drive : use a Devolutions Online Drive file (*.dod) as a User Vault.

UPGRADE

Remote Desktop Manager - MySQL	-		×
MySQL			
General User Vault Upgrade VPN Advanced			
Test Host			
Create Schema			
Update Schema			
Validate Schema			
Test Schema			
Email Schema to Support			
		_	
ID	OK	Can	cel

MySQL - Upgrade Tab

Test Host	Test the connection with the host (server) to validate if the proper information has been provided.
Create Schema	Create the schema on the MySQL server to use Remote Desktop Manager.
Update Schema	Update the schema on the MySQL server, if required, to use Remote Desktop Manager.
Test Schema	Test the connection with the schema to validate if the proper information has been provided.
Email Schema to Support	Send your schema to the Devolutions Support team.

VPN

Open a VPN to access your data prior to connecting to your **MySQL** database.

Remote Desktop Manager - MySQL	-	o x
MySQL		
General User Vault Upgrade VPN Advanced		
Type On first connect		
Override credentials		
Username		
Domain		
Password		
ID	ОК	Cancel

MySQL - VPN Tab

ADVANCED

Remote Desktop Manager - MySQL	-		×
Se MySQL			
General User Vault Upgrade VPN Advanced			
Caching mode Intelligent Ping online method None Connection timeout 5 \$ sec Command timeout 60 \$ sec Auto refresh 0 \$ sec Prompt for offline mode on startup Auto go offline	More	e Settings	
ID	ОК	Cano	el

MySQL - Advanced Tab

Caching mode	Determine how the entries will be reload in the data source. See <u>Caching</u> topic for more information.
Ping online method	Indicate the preferred ping online method. Select between: • None • Ping • Port Scan
Connection timeout	Waiting time before a connection timeout.
Command timeout	Waiting time before a command timeout.

Auto refresh	Set the interval for the automatic refresh
Prompt for offline mode on startup	Every time you will connect to your data source, you will be prompted to use the data source in offline mode.
Auto go offline	If the ping online method doesn't work it will automatically go offline.
Disable lock	Disable the option to lock the data source directly. You can still lock the application but you won't be prompted for the database password if this option is disabled.
More Settings	Edit the connection string values directly.

TROUBLESHOOTING

Consult MySQL troubleshooting for more information.

5.4.1.5 Microsoft SQL Server

DESCRIPTION

ð

With the Microsoft SQL Server data source, Remote Desktop Manager uses the power of Microsoft SQL Server to save and manage entries.

Supported Microsoft SQL Server:

- 2019 on Windows and Linux (all editions)
- 2017 on Windows and Linux (all editions)
- 2016 Service Pack 2
- 2014 Service Pack 3
- 2012 Service Pack 4

The following features are also supported:

- Always on availability group.
- Clustering.
- Log Shipping.
- Database mirroring.

HIGHLIGHTS

- Supports user management with a superior security model.
- Supports Offline mode for when the server or network is unavailable.
- Supports full entry logs and attachments.
- Supports Vaults to organize thousands of entries.



A proper database backup strategy should be implemented to prevent possible data loss. Please refer to the Backups topic.

Depending on the Recovery Model of the underlying database, some maintenance operations may have to be scheduled to run regularly in order to maintain the health of the database. Please consult <u>Recovery Model</u>.

Using either **Database Login** or **Integrated Security** is inherently less secure because it means that the end user can connect directly to the database using any tool available. We do have table and column level security, but security conscious organizations will consider this unacceptable. It is recommended to use our **Custom login** model.

CONFIGURATION

Consult the <u>Configure SQL Server</u> topic for more information on the configuration.

SETTINGS

GENERAL

Remote Desktop Manager - M	icrosoft SQL Server	-		×
Se Microsoft So	QL Server			
General Settings User Vault	Upgrade VPN Advanced			
Name	Microsoft SQL Serve	er ,	•	
Host Login mode	Database login			
Username Password				
Password	Always ask password Allow change username			
Database		To	st Host	
Two factor	None		Database	
ID		ОК	Cano	cel

Microsoft SQL Server - General Tab

	DESCRIPTION
Name	Enter a name for the data source.
Host	Enter the server hostname or IP address.
Login mode	Specify the authentication mode to use. Select between: Database login
	 Integrated Security (Active directory)
	Custom Login
Usernam e	Enter the username to access the SQL Azure database.
Password	Enter the password to access the SQL Azure database.

Always ask password	Prompt for the password when a user connects to the data source.
Allow change username	Allow the username to be edited when connecting to the data source. (Only with Always ask password enabled)
Database	Enter the name of the SQL Azure database.
Two factor	Enable the <u>2-Factor Authentication</u> .
Test Server	Test the connection with the server to validate if the proper information has been provided.
Test Database	Test the connection with the database to validate if the proper information has been provided.

SETTINGS

Remote Desktop Manager - Microsoft SQL Server	-		×
Server Microsoft SQL Server			
General Settings User Vault Upgrade VPN Advanced			
Root filter Ping online method None Auto go offline			
ID	ОК	Cance	el

Microsoft SQL Server - Settings Tab

	DESCRIPTION
Root filter	Enter the name of a root level folder to display only the entries contained in that folder.
Ping online method	Indicate the preferred ping online method. Select between: • None
	PingPort Scan
Auto go offline	Use the data source in offline mode when the ping method does not respond.

Disable lock	Disable the option to lock the data source directly. You can still lock the application but you won't be prompted for the data source password if this option is disabled.

USER VAULT

🔲 Remote Desktop Manager - Microsoft SQL Server	-	o x
Server Microsoft SQL Server		
General Settings User Vault Upgrade VPN Advanced Image: Type Online Drive Image: Type Filename Image: Type Image: Type Master key Image: Type Image: Type Image: Type Online Drive Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type Image: Type		
ID	ОК	Cancel

Microsoft SQL Server - User Vault Tab

Туре	Select the type of <u>User Vault</u> to use. Select between:
	 Default: use the default User Vault, which is stored in the database.

• None: disable the User Vault for all users.
• Online Drive : use a Devolutions Online Drive file (*.dod) as a User Vault.

UPGRADE

Remote Desktop Manager - Micr Microsoft SQ		-	• ×
General Settings User Vault	Upgrade VPN Advanced		
	Test Host Create Database		
	Update Database Validate Database Test Database		
	Email Schema to Support		
ID		ОК	Cancel

Microsoft SQL Server - Upgrade Tab

Test Server	Test the connection with the server to validate if the proper information has been provided.

Create Database	Create the database on the SQL server.
Update Database	Update the database on the SQL server.
Test Database	Test the connection with the database to validate if the proper information has been provided.
Email Schema to Support	Send your schema to the Devolutions support team.

VPN

Open a VPN to access your data prior to connecting to your Microsoft SQL Server.

Remote Desktop Manager - Microsoft SQL Server	-		×
Server Microsoft SQL Server			
General Settings User Vault Upgrade VPN Advanced			
Type On first connect	۲		
Override credentials			
Username Domain			
Password			
ID	ОК	Cano	el

Microsoft SQL Server - VPN Tab

ADVANCED

🔲 Remote Desktop Manager - Microsoft SQL Server	-		×
Server Microsoft SQL Server			
General Settings User Vault Upgrade VPN Advanced			
Caching mode Intelligent Connection timeout 5 \$ sec Command timeout 60 \$ sec Auto refresh Prompt for offline mode on startup Allow beta database upgrade	lanage Cache		
	lore Settings		
ID	ОК	Cano	cel

Microsoft SQL Server - Advanced Tab

Caching mode	Determines how the entries will be reloaded in the data source. For more information, please consult the <u>Caching</u> topic.
Connection timeout	Set the delay of the connection timeout.
Command timeout	Set the delay of the command timeout.
Auto refresh	Set the interval for the automatic refresh.
Prompt for offline mode on startup	Ask to use the data source in offline mode when the user connects to the data source.

Allow beta database upgrade	Allow beta upgrade of the database (when using a beta version of Remote Desktop Manager).
Manage Cache	Manage the data source cache. On large data sources caching is a must and will increase performance significantly. For more information, please consult the Manage Cache topic.
More Settings	Edit the connection string values directly.

5.4.1.5.1 Configure SQL Server

DESCRIPTION

1. Install Microsoft SQL Server or Microsoft SQL Server Express.



7

Newly installed Microsoft SQL Server instances do not allow remote connections. Please follow the directions in SQL Server.

For added security, you can enable SSL Encryption to communicate with your instance of SQL Server. However, due to a framework limitation, this is not compatible with our iOS and Android versions of Remote Desktop Manager.

Please follow directions on <u>https://support.microsoft.com/en-us/kb/316898</u>

2. Follow the steps in the <u>Create a data source</u> topic. On Step 4, before testing server or otherwise verifying the connection, continue with the steps below.

3. Select the **Upgrade** tab and click the **Create Database** button. If the database is already created on the Microsoft SQL Server, click the **Update Database** button to add the appropriate tables to the database.

Remot	e Desktop M	lanager - Mic	rosoft SQL S	Server				-		×
	Micro	soft SQ	L Serv	er						
General	Settings	User Vault	Upgrade	VPN	Advanced					
	1									
							_			
					Test Host					
				Cre	eate Database					
				Upo	date Database					
				Vali	date Database					
				Te	est Database					
				Email S	chema to Sup	port				
ID								ОК	Can	cel

Upgrade Tab

4. Once the database is created, create an administrator account for the database via the <u>Administration - Users</u> menu.

If the database is created using a system administrator (example: SA), we recommend to keep this user only for the database creation and the <u>database upgrade</u>. A Remote Desktop Manager administrator account must be created first. Then, regular users are created with this administrator account.

Remote Desktop Manage				×
General Information Roles Privileges Security Groups (Legacy) Vaults Application Access Settings	General ID Authentication type Username Password User type User license type	25339745-2C40-45C4-9C47-694390909E01 Database Integrated security (Active Directory) ✓ Create SQL Server Login and User Administrator User must change password at next logon		
		ОК	Car	icel

Create a Remote Desktop Manager Administrator Account

5. Connect to the Microsoft SQL Server database with the Remote Desktop Manager administrator account. To do so, edit the data source used to create the database and change the login information for the administrator account created with Remote Desktop Manager.

📃 Remote Desktop Manager	temote Desktop Manager - Microsoft SQL Server			
😂 Microsoft S(QL Server			
General Settings Private V	ault Upgrade VPN Advanced			
Name Host Login mode	SQL Server	•		
Username Password				
	Always ask password Allow change username			
Database Two factor	None		t Server Database	
ID 8CFCF15D-0FA4-4823-8EE	9-23BC4F94C3CA	ОК	Cano	el

Connection to the Database with the RDM Administrator Account

The Microsoft SQL Server data source is now correctly configured.

5.4.1.5.2 Recovery Model

DESCRIPTION

Microsoft SQL Server backup and restore operations occur within the context of the recovery model of the database. Recovery models are designed to control transaction log maintenance. A recovery model is a database property that controls how transactions are logged, whether the transaction log requires (and allows) backing up, and what kinds of restore operations are available. Three recovery models exist: **simple**, **full**, and **bulk-logged**. Typically, a database uses the full recovery model or simple recovery model. A database can be switched to another recovery model at any time.

If the Recovery Model is set to Full, it is critical that regular backups of BOTH the database and the transaction log are performed. Not performing these backups will result in the database files to increase in size at an alarming rate. This will severely impact the performance in the long run.



For further information regarding SQL Recovery Models, refer to <u>https://msdn.microsoft.com/en-CA/library/ms189275.aspx</u>.

5.4.1.5.3 Encrypting Connections to SQL Server

DESCRIPTION

To ensure that the communication between Remote Desktop Manager and the Microsoft SQL Server database is encrypted, an extensive procedure must be followed on the Microsoft SQL Server instance.

Please consult this Microsoft technet article that provides detailed instructions: Encrypting Connections to SQL Server (technet).

After it has been properly configured, the only modification to perform in Remote Desktop Manager is to set a property in the **More Settings** of the data source.

PROCEDURE

1. Create or edit an Microsoft SQL Server data source, access the **Advanced** tab and click the **More Settings** button.

Remote Desktop Manager - Microsoft SQL Server	-		×
Server Microsoft SQL Server			
General Settings Private Vault Upgrade VPN Advanced			
Caching mode Intelligent Connection timeout 30 \$ sec Command timeout 60 \$ sec Auto refresh 0 \$ sec Prompt for offline mode on startup Allow beta database upgrade			
	ge Cache Settings		_
ID 8CFCF15D-0FA4-4823-8EE9-23BC4F94C3CA	OK	Cano	:el

2. Set the **Encrypt** property value to **true**. Click **OK** to validate.

Remote Desktop Manager - SQL Server	- 🗆 X
SQL Server	
Setting Name	Value
Connection Lifetime	
Encrypt	true
Failover Partner	
Load Balance Timeout	
Max Pool Size	
Min Pool Size	
MultipleActiveResultSets	
Network Library	
Packet Size	
Persist Security Info	
Replication	
TrustServerCertificate	
Trustserver cer uncate	

5.4.1.6 Microsoft SQL Azure

DESCRIPTION

e

With the Microsoft SQL Azure data source, Remote Desktop Manager uses the Microsoft cloud platform to save and manage entries.

The following features are also supported:

- Always on availability group
- Clustering
- Log shipping
- Database mirroring

MINIMUM REQUIREMENT FOR AZURE SQL DATABASE FOR RDM

Microsoft SQL Azure offers different service tier in their purchase model for DTUS. We recommend at minimum a Standard tier package S0 for 5 users and more. Visit their website for more information.

HIGHLIGHTS

- Supports User Management with a superior security model.
- Supports Offline mode for when the server or network is unavailable.
- Supports entry logs and attachments.
- Used to create an online database. <u>Get more information on Microsoft SQL</u> <u>Azure</u>.



Please download it here : <u>https://www.microsoft.com/en-us/download/details.aspx?id=48742</u>.



A proper database backup strategy should be implemented to prevent possible data loss. Please refer to the Backups topic.

CONFIGURATION

Consult the Configure SQL Azure topic for more information on the configuration.

SETTINGS

GENERAL

🔲 Remote Desktop Manager - M	icrosoft SQL Azure	-		×
🛯 😂 Microsoft S	QL Azure			
General Settings User Vau	Upgrade VPN Advanced			
🧭 Name	Microsoft SQL Azure	-		
Host				
Login mode	Database login			
Login mode				
Username				
Password				
	Always ask password			
	Allow change username			
	Allow change doctrialite			
Database				
Two factor	None			
		Test D	Database	
ID		ОК	Cance	el

Microsoft SQL Azure - General

	DESCRIPTION
Name	Enter a name for the data source.
Host	Enter the server hostname or IP address.
Login mode	Specify the authentication mode to use. Select between: Database login
	Custom login
	Active Directory Password
	Active Directory Integrated

	 Active Directory Interactive (with MFA support)
Username	Enter the username to access the SQL Azure database.
Password	Enter the password to access the SQL Azure database.
Always ask password	Prompt for the password when a user connects to the data source.
Allow change username	Allow the username to be edited when connecting to the data source. (Only with Always ask password enabled)
Database	Enter the name of the SQL Azure database.
Two factor	Enable the 2-Factor Authentication.
Test Database	Test the connection with the database to validate if the proper information has been provided.

SETTINGS

🔲 Remote Desktop Manager - Microsoft SQL Azure	-		×
Se Microsoft SQL Azure			
General Settings User Vault Upgrade VPN Advanced			
Root filter			
Ping online method None			
Auto go offline			
ID	ОК	Can	cel

Microsoft SQL Azure - Settings Tab

Root filter	Enter the name of a root level folder to display only the entries contained in that folder.
Ping online method	Indicate the preferred ping online method. Select between: None Ping
	Port Scan
Auto go offline	Use the data source in offline mode when the ping method does not respond.
Disable lock	Disable the option to lock the data source directly. You can still lock the application but you won't be prompted for the data source password if this option is disabled.

USER VAULT

Remote Desktop Manager - Microsoft SQL Azure	- 🗆 X
😂 Microsoft SQL Azure	
	vanced
✓ Always ask master key	
ID	OK Cancel

Microsoft SQL Azure - User Vault Tab

	DESCRIPTION
Туре	 Select the type of <u>User Vault</u> to use. Select between: Default: use the default User Vault, which is stored in the database.
	• None: disable the User Vault for all users.
	• Online Drive : use a Devolutions Online Drive file (*.dod) as a User Vault.

UPGRADE

Remote Desktop Manager - Microsoft SQL Azure	-		×
Se Microsoft SQL Azure			
General Settings User Vault Upgrade VPN Advanced			
Create Database			
Update Database			
Validate Database			
Test Database			
Email Schema to Support			
ID	ОК	Cano	el

Microsoft SQL Azure - Upgrade Tab

Create Database	Create the database on the SQL server to use Remote Desktop Manager.
Update Database	Update the database on the SQL server, if required to use Remote Desktop Manager.
Test Database	Test the connection with the database to validate if the proper information has been provided.
Email Schema to Support	Send your schema to the Devolutions Support team.

VPN

Open a VPN to access your data prior to connecting to your **Microsoft SQL Azure** database.

Remote Desktop Manager - Microsoft SQL Azure	-		×
😂 Microsoft SQL Azure			
General Settings User Vault Upgrade VPN Advanced			
Type On first connect	۲		
RDM File]		
Override credentials			
Username			
Domain			
Password			
ID	ОК	Cano	el

Microsoft SQL Azure - VPN

ADVANCED

🔲 Remote Desktop Manager - Microsoft SQL Azure	-		×
See Microsoft SQL Azure			
General Settings User Vault Upgrade VPN Advanced			
Caching mode Intelligent Connection timeout 5 \$ sec Command timeout 60 \$ sec Auto refresh 0 \$ sec Prompt for offline mode on startup Allow beta database upgrade			
	Manage Cache More Settings		
	Profe Settings		_
ID	OK	Cano	cel

Microsoft SQL Azure - Advanced Tab

Caching mode	Determines how the entries will be reloaded in the data source. For more information, please consult the <u>Caching</u> topic.
Connection timeout	Set the delay of the connection timeout.
Command timeout	Set the delay of the command timeout.
Auto refresh	Set the interval for the automatic refresh.
Prompt for offline mode on startup	Ask to use the data source in offline mode when a user connects to the data source.

Allow beta database upgrade	Allow beta upgrade of the database (when using a beta version of Remote Desktop Manager).
Manage Cache	Manage the data source cache. On large data sources caching is a must and will increase performance significantly. For more information, please consult the <u>Manage Cache</u> topic.
More Settings	Edit the connection string values directly.

5.4.1.6.1 Configure SQL Azure

DESCRIPTION

1. Make sure that you have a valid **Microsoft SQL Azure** subscription to be able to create your database.

2. Follow the steps in the <u>Create a data source</u> topic. On Step 4, before testing server or otherwise verifying the connection, continue with the steps below.

3. Select the **Upgrade** tab and click the **Create Database** button. If the database is already created on the Microsoft SQL Azure Server, click the **Update Database** button to add the appropriate tables to the database.

i

Remote Desktop Manager - Microsoft SQL Azure	-		×
Se Microsoft SQL Azure			
General Settings User Vault Upgrade VPN Advanced			
Create Database			
Update Database			
Validate Database			
Test Database			
Email Schema to Support			
		ſ	
ID	ОК	Cano	el

Upgrade Tab

4. Once the database is created, create an administrator account for the database via the <u>Administration - User Management</u> menu.

If the database is created using a system administrator (example: SA), we recommend to keep this user only for the database creation and the <u>database upgrade</u>. A Remote Desktop Manager administrator account must be created first. Then, regular users are created with this administrator account.

Remote Desktop Manager User Manager				×
General > Information Roles Privileges Security Groups (Legacy) Vaults Application Access Settings	General ID Authentication type Username Password	25339745-2C40-45C4-9C47-694390909E01 Database Integrated security (Active Directory) Create SQL Server Login and User		
	User type	Administrator • Default • User must change password at next logon	Car	ncel

Create a Remote Desktop Manager Administrator Account

5. Connect on the Microsoft SQL Azure database with the Remote Desktop Manager administrator account. To do so, edit the data source used to create the database and change the login information for the administrator account that you have created.

📑 R	emote Desktop Manager	- Microsoft SQL Azure	-		×
	Microsoft S	QL Azure			
Gene	eral Settings Private	/ault Upgrade VPN Advanced			
ð	Name	SQL Azure	-		
	Host				
	Login mode	Database login 👻			
	Username				
	Password				
		Always ask password Allow change username			
	Database				
	Two factor	None	Test D	atabase	
ID	F478E3CC-0930-4327-830		ОК	Canc	el

Connection to the Database with the RDM Administrator Account

The Microsoft SQL Azure data source is now correctly configured.

- 5.4.1.6.2 Enable Azure Active Directory Authentication
- 5.4.1.6.2.1 Configure the Active Directory Admin

DESCRIPTION

To enable SQL Server Azure Active Directory Authentication you must first configure the Azure Active Directory admin of the server.

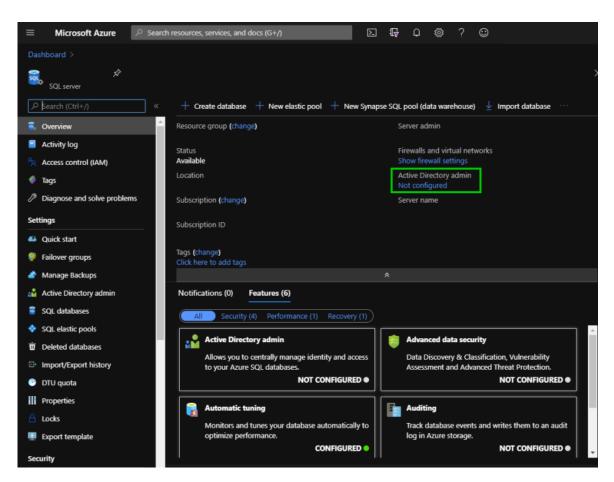


It may take a few minutes for this change to propagate. You might experience a time delay before being able to connect with this Active Directory account.

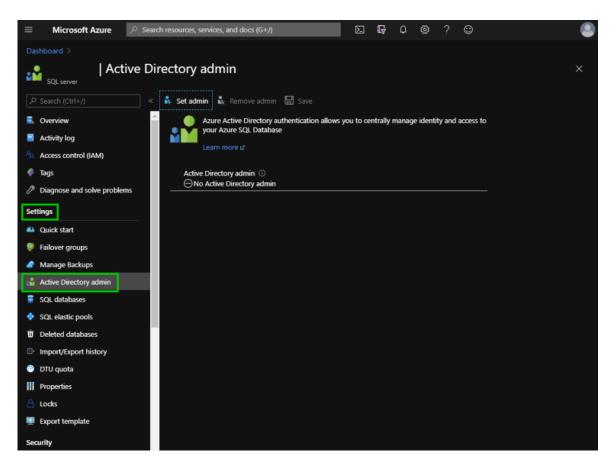
Microsoft Azure	SQL databases > >	- Active Directory admin			× L 🕸 🖸 🖉 🕒
	ases \star 🗕 🗙	SOL database		_ 🗆 × 📊 - Acti	ive Directory admin 🛛 🖈 💶 🗙
	Columns 💍 Refresh	Par ormetor	X Tools 🗗 Copy "O Restore 🕌 Export 🕫 Set server firew 🍈 Del		🙀 Set admin 🔹 Remove admin 🔲 Save
	Sandbox – Don't see a witch directories		Essentials ^	P Search (Ctrl+/)	Azure Active Directory authentication
Filter by name	6	Overview	Resource group Default-SQL-EastUS Status Status	📵, Overview	allows you to centrally manage identity and access to your Azure SQL Database V12.
🕒 🤻 iame 🗸		 Activity log 	Colies V12 Location Connection strings	Activity log	Learn more re
0		X Diagnose and solve problems	East US Show database connection strings Subscription name Pricing tier Basic (5 DTUs)	Access control (IAM)	Active Directory admin
			Subscription ID Gee-Replication role cee3c32f-651f-461b-9856-461b9bd0a113 Not configured	Togs X Diagnose and solve proble	ems d
		Quick start		SETTINGS	1
		Pricing tier (scale DTUs)	Resource utilization	📣 Quick start	
•		Geo-Replication	100%	Edit O Firewall	
		Auditing & Threat detection	80%	Long-term backup retention	on and a second s
•		Dynamic data masking	60%	Auditing & Threat detection	on second se
•		Transparent data encryption	40%	Latest SQL Database updat	
•		H Properties	20%	a Active Directory admin	
•		Locks	0%	Properties	
2		Automation script	1:15 PM 1:30 PM 1:46 PM 2 P		
>		MONITORING	0 %	Automation script	
		🚍 Alert rules		SUPPORT + TROUBLESHOOTING	
		🗊 Database size	Operations	🗲 Automatic tuning	
		SUPPORT + TROUBLESHOOTING	Performance Security (Preview)	New support request	
		💝 Resource health	There are no performance There are no security alerts		
		n Derformance overview	recommendations for this for this database at this time.		
https://go.microsoft.com/fwlinl	k/?LinkID=616886				1

Azure AD Portal

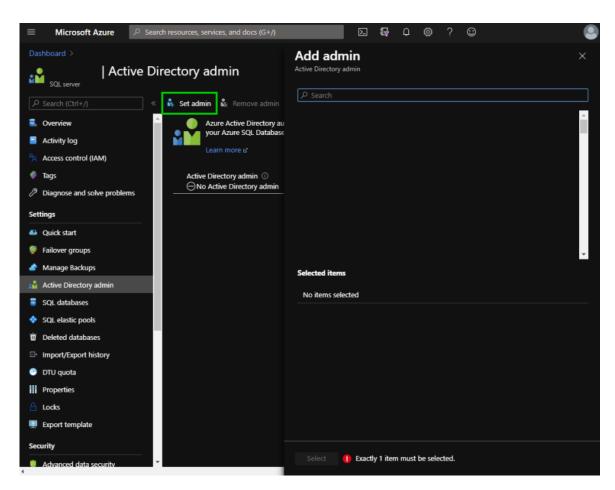
1. Has show in the **Overview** tab the **Active Directory admin** is set to **Not configured**.



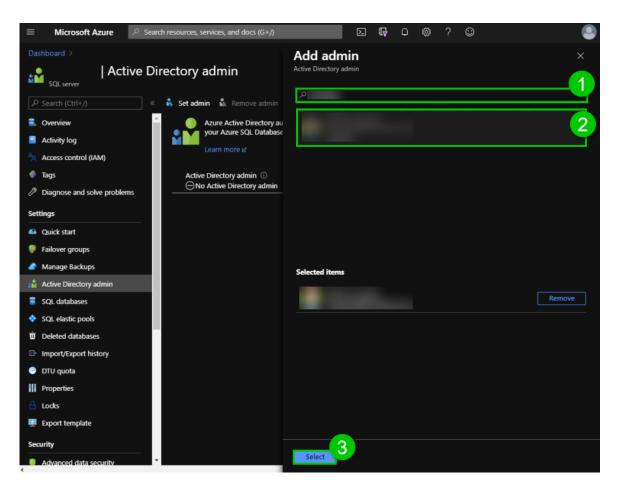
2. Click on Active Directory admin under Settings in the left menu.



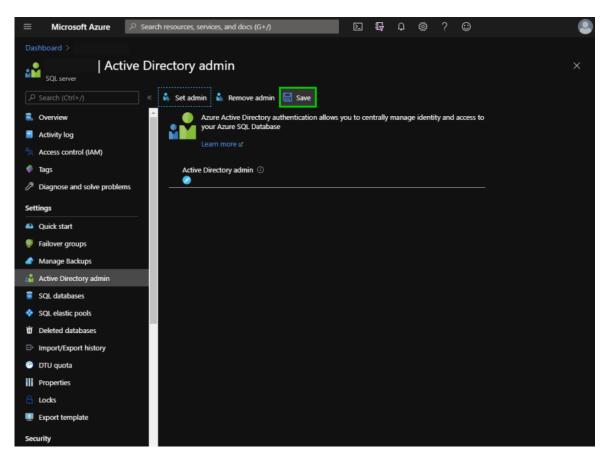
3. Click on Set admin to search for the admin.



4. Type the admin name in the *Search* field, click on the admin in the list provided and then *Select*.



5. To finish the process click on Save.



6. Copy the Active Directory admin email, it is essential for the next steps.

5.4.1.6.2.2 Create an Azure Active Directory App Registration

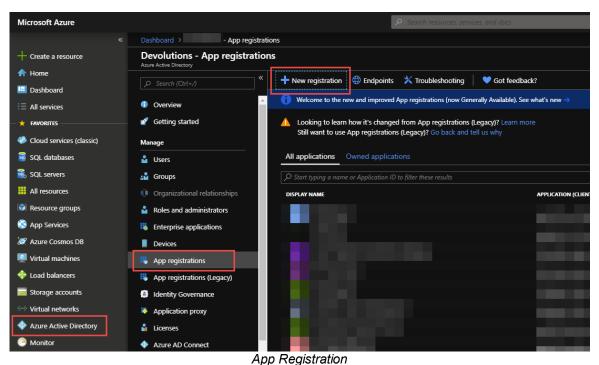
DESCRIPTION

To be able to use the **Active Directory Interactive (with MFA Support)** authentication method in Remote Desktop Manager, a new app registration needs to be registered in the Microsoft SQL Azure console (Azure Active Directory) with the appropriate API permissions.

SETTINGS

1. Login on Azure Portal.

2. In the Azure Active Directory section, select *App registrations* and then, *New registration*.



3. Configure the *Name*, *Supported account types* and *Redirect URI* as indicated below and click *Register*.

•

The **Redirect URI** setting MUST be configured **Public client/native** (mobile & desktop).

Register an application
* Name
The user-facing display name for this application (this can be changed later).
RDM-App-Registration ~
Supported account types
Who can use this application or access this API?
Accounts in this organizational directory only (Devolutions only - Single tenant)
Accounts in any organizational directory (Any Azure AD directory - Multitenant)
Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
Help me choose
Redirect URI (optional)
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.
Public client/native (mobile V https://mycompany.com V
Supported Account Types

4. Select *APIs my organization uses*, then type *Azure and select Azure SQL Database*.

Request API permissions	×
Select an API	
Microsoft APIs APIs my organization uses My APIs	
Apps in your directory that expose APIs are shown below	
Azure	
NAME	APPLICATION (CLIENT) ID
Azure Analysis Services	4ac7d521-0382-477b-b0f8-7e1d95f85ca2
Azure Container Registry	6a0ec4d3-30cb-4a83-91c0-ae56bc0e3d26
Azure Data Lake	e9f49c6b-5ce5-44c8-925d-015017e9f7ad
Azure DevOps	499b84ac-1321-427f-aa17-267ca6975798
Azure Key Vault	cfa8b339-82a2-471a-a3c9-0fc0be7a4093
Azure Media Services	374b2a64-3b6b-436b-934c-b820eacca870
Azure Pipelines Hub (Prod)	4a01d87e-8a5d-464d-b2c4-b79c37359a12
Azure Pipelines Hub (Staging)	602e6588-03e5-4c84-ad02-9552a6521637
Azure SQL Database	022907d3-0f1b-48f7-badc-1ba6abab6d66
Azure Storage	e406a681-f3d4-42a8-90b6-c2b029497af1
AzureDatabricks	2ff814a6-3304-4ab8-85cb-cd0e6f879c1d

APIs my organization uses

5. Select **Delegated permissions – user_impersonation** and click **Add permissions**.

Request API permissions	×
All APIs Azure SQL Database https://database.windows.net/	
What type of permissions does your application require	?
Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.
Select permissions	expand all
Type to search	
PERMISSION	ADMIN CONSENT REQUIRED
■ user_impersonation Access Azure SQL DB and Data Warehouse ●	
Add permissions Discard	

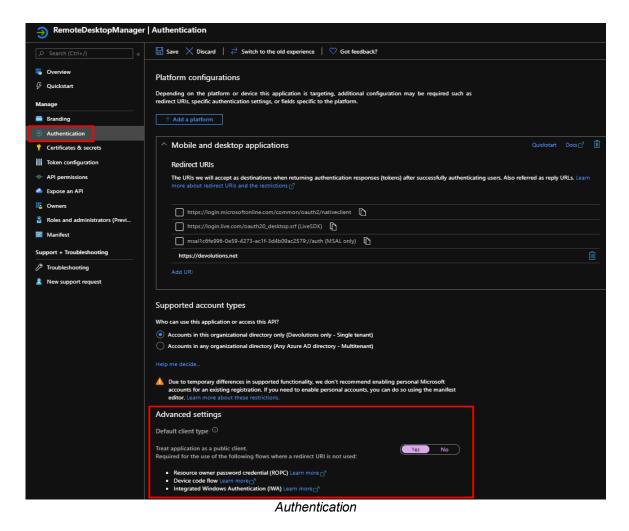
user_impersonation

6. The *API permissions* should look like this. You will see the new permission we just added and the preexisting Microsoft Graph.

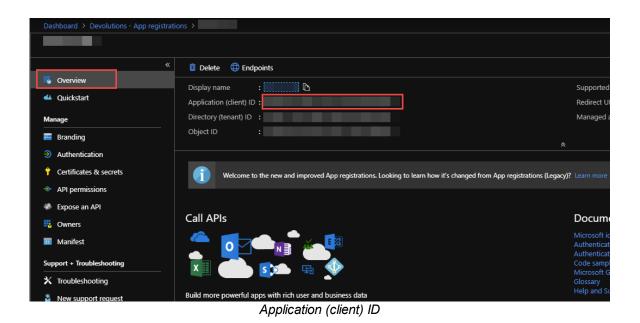
API permissions Applications are authorized to use APIs by requ	uesting permissions. These pe	rmissions show up during the consent process where u	isers are given the opportunity to
grant/deny access.			
+ Add a permission			
API / PERMISSIONS NAME	ТУРЕ	DESCRIPTION	ADMIN CONSENT REQUIRE
✓ Azure SQL Database (1)			
user_impersonation	Delegated	Access Azure SQL DB and Data Warehouse	-
✓ Microsoft Graph (1)			
	Delegated	Sign in and read user profile	
These are the permissions that this application	requests statically. You may a	lso request user consent-	
able permissions dynamically through code. S			

API / Permissions Name

7. **Optional step**: Click on the *Authentication* section and switch to **Yes**, if you desire the *Integrated Windows Authentification (IWA)* option



- 8. Your Azure Active Directory App Registration is now completed.
- 9. Copy the *App Registration's Application (client) ID* needed in Remote Desktop Manager in the next step.



5.4.1.6.2.3 Configure RDM Active Directory Interactive (with MFA)

DESCRIPTION

Active Directory Interactive (with MFA Support) allows you to authenticate on your <u>Microsoft SQL Azure</u> data source using your Office365 account + MFA.

For Azure AD authentication, download and install the Microsoft Active Directory Authentication Library for Microsoft SQL Server.

Please download it here : <u>https://www.microsoft.com/en-us/download/details.aspx?id=48742</u>.

 $\boldsymbol{\otimes}$

When creating SQL Active Directory users, you must be logged in with an Azure Active Directory user. Otherwise it will fail and you will be notified of the error.

Use the servers defined Azure Active Directory Admin to create your first RDM admin users. Once you've created, you can use this new account to create other users.

SETTINGS

📕 Remote Desktop Manager -	Microsoft SQL Azure				×
🧯 Microsoft SC	QL Azure				
General Settings User Vaul	t Upgrade VPN Advanced				
Name	Windjammer	Microsoft SQL Azure	2 '	•	
Host	windjammer.database.windows.net				
Login mode	Active Directory Interactive (with MFA suppo •	Automatic	-		
Username	admin@windjammer.com]			
Azure App Settings	Configured				
	Allow change username				
Database	RDM				
Two factor	None		Test	Database	
ID			ОК	Can	el

Azure with MFA

- 1. Select *Active Directory Interactive (with MFA Support)* from the *Login mode* dropdown menu.
- 2. You can specify how you want RDM to interact with Azure AD during the authentication.

Default	This is the default mode.
	The user will be prompted for credentials even if there is a token that meets the requirements already in the cache.

Automatic (Shared in older versions)	Azure AD will prompt the user for credentials only when necessary. If a token that meets the requirements is already cached then the user will not be prompted.

When it comes to Azure AD joined devices (registered devices). Azure AD may or may not prompt for MFA. **This is entirely controlled by Azure AD**, there is nothing we can do in RDM to force or bypass the MFA other than the **Default** or **Automatic** options mentioned above.

3. In the *Username* field, paste the *Active Directory admin* email you created in the Microsoft Azure SQL databases.



On first connect, the username must be the Active Directory Admin as defined in the <u>Configure the Active Directory Admin</u>. Once you add other AD user in RDM they will be able to connect.

0	Remote Desktop Manager	×
	Unable to connect to the database! Login failed for user ' <token-identified princip<="" th=""><th>pal>'.</th></token-identified>	pal>'.
		ОК
fa th	you get this message error: Unable to con iled for user ' <token-identified principal="">' it e Active Directory admin email you crea QL databases.</token-identified>	t is because you are not using

4. Click on **Configure** to set the <u>Azure App Settings</u> and enter the application ID from the Azure Active Directory App Registration and the corresponding Redirect URI.

🔲 Remote Desktop M	lanager - App Registration X
🔓 App Re	gistration
Application ID Redirect URI	https://mycompany.com
0	OK Cancel
	App Registration

5. Configure the database to authenticate in the **Database** field.

5.4.1.6.2.4 Configure Azure Active Directory user in RDM

DESCRIPTION

From Remote Desktop Manager navigate to *Administration – Users*, and add a new user.

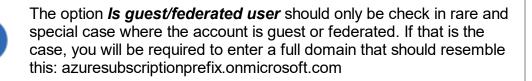
In the *Authentification type* select *Office365/Azure AD* and enter in the *Username* field the email of the user, click *Ok*.

If *Office365/Azure AD* is not available in the drop down menu of *Authentification type*, please validate that all the steps have been done in the following topics:

- <u>Configure the Active Directory Admin</u>
- <u>Create an Azure Active Directory App Registration</u>
- <u>Configure RDM Active Directory Interactive (with MFA)</u>

📮 Remote Desktop Mana	ger - User Management			×
🎖 User Mana	agement			
General S Information Roles Privileges Security Groups (Legacy) Vaults Application Access Settings	General ID Authentication type Username Domain User type User license type	A6AA8F25-332B-4F2B-A265-473CF02308C9 Office 365/Azure AD		
L		ок	Cano	el

Set the Authentication type to Office365/Azure AD



If you do not receive the MFA prompt. Please validate your Azure logs in *Authentications Details - Result detail*. If this message appears: *MFA requirement was skipped due to registered device*, we currently have no way to force and MFA prompt on registered devices and that's why you are not getting the MFA prompt in that case.

Details					
Basic info Location	Device info Authentication	Details Conditional Access	Report-only	Additional Details	
Date	Authentication method	Authentication method detail	Succeeded	Result detail	Requirement
12/9/2020, 3:53:33 PM	Password	Password in the cloud	true		Primary authentication
12/9/2020, 3:53:33 PM	Previously satisfied		true	MFA requirement skipped due to registered device	User

5.4.1.7 Password Hub Business

DESCRIPTION

Devolutions Password Hub Business, for businesses who need to share passwords and credentials within their organization.

Please consult our website for more information on this service.



SETTINGS

Remote Desktop Manager - Devolutions Password Hub Business	-	o x
Devolutions Password Hub Business		
General VPN Advanced		
Name Username Host		
	ОК	Cancel

Name	Name of the data source.
Username	Your <u>Devolutions Account</u> email address.
Host	Copy in the <i>Host</i> your Devolutions Password Hub Business URL (ex: https://windjammer.devolutions.app/) or click on the 3 dots to get a drop down list to select from.

VPN

Open a VPN to access your data prior to connecting to your **Devolutions Online Database**.

Remote Desktop Manager - Devolutions Password Hub Business			×
Devolutions Password Hub Business			
General VPN Advanced			
Type On first connect	۲		
RDM File]		
Override credentials			
Username			
Domain			
Password			
	ОК	Canc	el

ADVANCED

Set the interval for the automatic refresh.

Remote Desktop Manager - Devolutions Password Hub Business	-	D	×
Devolutions Password Hub Business			
General VPN Advanced			
Auto refresh 600 💲 sec			
	ОК	Cano	el

5.4.1.8 User Vault

DESCRIPTION

The **User Vault** allows you to connect a personal Vault stored in a **Devolutions Online Drive** file directly to your **Advanced Data Source**, thus allowing you to store information that only you can have access to. For more information about the User Vault please follow this <u>link</u>.

1. In the **User Vault** tab of your Advanced Data Source, select **Online Drive** in the **Type**.

Remote Desktop Manager	-		×
MySQL			
General User Vault Upgrade VPN Advanced Image: Type Online Drive Image: Control of the second secon			
ID	ОК	Can	cel

Devolutions Online Database Data Source

2. Click on the **ellipsis** next to the **Filename** field. A list containing your pre-existing Devolutions Online Drive files will prompt. You may choose to use an existing file (.dod) or if you wish you can enter a name in the **New data source field** and click on **Create** to automatically create a new Devolutions Online Drive file.

Remote Desktop Manager - Devolutions Online Driv	ve Data Source		×
Devolutions Online Drive	Data Sourc	e	
Name			
connections.dod			
Add a new data source	Create	Select	Cancel

Devolutions Online Drive Data Source

5.4.2 DropBox

DESCRIPTION

Remote Desktop Manager uses the Dropbox API to retrieve a XML file from the configured repository. There is no need to install the Dropbox client on the machine to open the data source. It is also possible to configure more than one Dropbox account on the same machine.



The Dropbox integration uses the Dropbox SDK, so any features that are exclusive to the Business or Enterprise editions are NOT supported.

HIGHLIGHTS

- This data source can be shared over the Internet between multiple locations.
- The data source supports auto refresh.
- This is a file-based data source, based on the XML data source.
- To avoid data corruption, the session list should be modified in one location at a time.
- No need to have the Dropbox client installed to use the Dropbox data source.
- Each Dropbox data source can use a different Dropbox account.

Although it can be shared between multiple locations, there is no conflict management for the configuration. If you share with other users you may get update conflicts and run into issues. This data source type is meant for **a single user using multiple computers, not multiple users**.

SETTINGS

📮 Remote Desktop Manager - I	Dropbox	-		×
Dropbox				
General VPN Advanced				
Name Mode Local path Full local path	Dropbox Local - connections.xml	•		
Master key Dropbox directory	✓ Always ask master key			
Filename ID AAAC170C-C03C-4077-BC4		ж	Can	cel

Dropbox - General Tab

Remote Desktop Manager supports the 2-Factor Authentication of Dropbox. When the button **Validate with Dropbox** is pressed and the 2-Factor Authentication is enabled in Dropbox, a window prompt will open and ask for the Dropbox account password, then a second prompt will open for the security code. The security code can be received by SMS or generated by Google Authenticator.

Name	Name of the data source.
Mode	Select the mode that is preferred to configure the data source. Select between:
	Account
	• Local

Local path (Local Mode)	Contains the local path where the Dropbox files are accessible.
Email (Accout Mode)	Contains the email address associated with the Dropbox account.
Validate with Dropbox (Account Mode)	Button to validate the email address with the Dropbox account.
Master key	Add an additional layer of security to your data source by using master key.
Always ask master key	Connecting to the data source will always prompt for the master key.
Dropbox directory	Indicate the folder in Dropbox. It should not contains any drive since it's stored online. Leave it empty to use the default Dropbox root.
Filename	Indicate the filename used to store the data on the data source.
Compress database file	Activate this option if you wish to compress your database file.

VPN

Open a VPN to access your data prior to connecting to your **Dropbox**.

Remote Desktop Manager - Dropbox	-		×
See Dropbox			
General VPN Advanced			
Type On first connect			
RDM File			
Override credentials			
Username			
Domain			
Password			
ID AAAC170C-C03C-4077-BC4F-28A717C3CB4C	ОК	Can	cel

Dropbox - VPN Tab

ADVANCED

🔲 Remote Desktop Manager - Dropbox	-		×
Se Dropbox			
General VPN Advanced Image: Auto refresh 300 C sec Image: Use current DropBox session if available Image: Always ask confirmation			
Disable reveal password Allow offline mode			
ID AAAC170C-C03C-4077-BC4F-28A717C3CB4C	ОК	Cano	el

Dropbox - Advanced Tab

Auto refresh	Set the interval to use between each automatic refresh.
Use current Dropbox session if available	This option will use the Dropbox account who has been already validated without any other validation.
Always ask for confirmation	Always ask for confirmation when connecting to the data source.
Disable reveal password	Disable the reveal password feature when a user access this data source.
Allow offline mode	Allow the data source to be used in Offline mode.

5.4.3 Google Drive

DESCRIPTION



Remote Desktop Manager downloads and uploads the session settings directly from file located on an FTP site.

Remote Desktop Manager - Google Drive	-		×
Google Drive			
General VPN			
Name Email Password			
Always ask password Account status The account is not validated yet. Validate Google Drive			
Master key Image: Always ask master key			
Filename			
	ок	Cance	el

Google Drive - General Tab

Name	Enter the name of the data source.
Email	Enter the Google email to access Google Drive.

Passwor d	Enter the password of the Google account.
Always ask passwor d	Always ask for the password when connecting to the data source.
Account status	Indicated if the account has been validated with Google Drive. Credentials must be validated before using the data source.
Validate Google Drive	This contextual button attempts validates the credentials currently in use (or removes currently validated credentials).
Master key	Enter the master key of the data source (If enabled).
Always ask master key	Enabling this option will prompt for a master key whenever you are connecting to the data source.
Filename	Enter the Google Drive path of the data source's file.

VPN

Open a VPN to access your data prior to connecting to your **Google Drive**.

🔲 Remote Desktop Mana	iger - Google Drive	-		×
🧯 Google Di	rive			
General VPN				
Type RDM File	On first connect			
Override credentia	als			
Username				
Domain				
Password				
ID B90C0576-E259-4C83	-B929-6381577FC0A2	ОК	Cano	el

Google Drive - VPN Tab

5.4.4 Devolutions Online Drive

DESCRIPTION

The Devolutions Online Drive stores and synchronizes your remote connections and credentials data in our Cloud services. You can access your sessions from anywhere via an Internet connection.

It is an online file storage service dedicated to a single file type, Remote Desktop Manager's connection list. Devolutions Online Drive is completely free and has no limitations as to how many sessions you might have, it is for **single users** as it cannot share files.

Please consult the <u>Online Drive</u> topic for information on this service.



Since this service is hosted in the cloud, we strongly recommend that you further encrypt your data by applying a Master key. This will ensure that the file will be unreadable by no one but you.

Even though this is a cloud service, you **MUST** use our <u>Online Backup</u> service to keep history of your data. Devolutions offers a free backup service, and we do not maintain multiple versions of the Online Drive content. This makes it critical that you enable the backup feature. This service will keep multiple versions of your file and is the best option.

SETTINGS

Remote Desktop	Manager - Devolutions Online Drive	-		×
😂 Devolu	itions Online Drive			
General Backup Name Filename Master key	VPN Advanced Devolutions Online Drive Create a Free Account Always ask password Test Connection connections.dod ✓ Always ask master key			
ID BF0B90F2-FC01	-451C-8C3E-E307D3E352C4	ОК	Cano	el

Devolutions Online Drive - General Tab

Name	Enter the name of the data source.

	DESCRIPTION
Create a free account	Create a new Devolutions Account.
Always ask password	Prompts for the password every time a connection to the Devolutions Online Drive is attempted.
Test Connection	Test the connection with Devolutions Online Drive to validate the provided credentials.
Filename	Indicate the filename used to store the data on the Devolutions Online Drive.
Master key	Contains a master key to access the data source.
Always ask master key	Ask for the master key every time a connection to the Devolutions Online Drive is attempted.

BACKUP

Please consult the <u>Online Backup</u> topic for information on this service.

Remote Desktop Manager - Devolutions Online Drive Devolutions Online Drive				
General Backup VPN Backup	Advanced No backup • No backup • File backup • Online Backup •			
ID BF0B90F2-FC01-451C	-8C3E-E307D3E352C4	ОК	Can	cel

Devolutions Online Drive - Backup Tab

Backup	Choose the backup mode. Select between:
	• None: No backup of the data source will be created.
	• File backup: The backup will be saved to a local file when a modification occurs in the data source.
	• Online Backup : An Online Backup (using the <u>Online</u> <u>Backup</u>) will automatically be created when a modification occurs in the data source.

VPN

Open a VPN to access your data prior to connecting to your **Devolutions Online Drive**.

Remote Desktop Manager - Devolutions Online Drive	-		×
Sevolutions Online Drive			
General Backup VPN Advanced			
Type On first connect Image: Connect RDM File Image: Connect Image: Connect			
Override credentials			
Username			
Domain			
Password			
ID BF0B90F2-FC01-451C-8C3E-E307D3E352C4	ОК	Can	cel

Devolutions Online Drive - VPN Tab

ADVANCED

Remote Desktop Manager - Devolutions Online Drive	-	o x	
Sevolutions Online Drive			
General Backup VPN Advanced			
 Auto refresh 30 = sec Disable reveal password Allow offline mode Allow custom images Disable lock 			
	Clear Of	fline Cache	
ID BF0B90F2-FC01-451C-8C3E-E307D3E352C4	ОК	Cancel]

Devolutions Online Drive - Advanced Tab

Auto refresh	Set the interval to use between each automatic refresh.
Disable reveal password	Disable the reveal password feature when a user access the data source.
Allow offline mode	Allows the data source to be used in Offline mode.
Allow custom images	Allows the use of custom images.
Disable lock	Disables the password query for locking application.
Clear Offline Cache	Clear the offline cache on the local computer. This can be very helpful when encountering offline issues.

5.4.5 Password Hub Personal

DESCRIPTION

Devolutions Password Hub Personal, for individual users who want to secure personal passwords in a secure vault for free.

Please consult our <u>website</u> for more information on this service.

SETTINGS

Remote Desktop Manager - Devolutions Password Hub Personal	-		×
Devolutions Password Hub Personal			
General VPN Advanced			
Name Create an account for free Username			
	ОК	Cano	el

Name	Name of the data source.
Username	Your <u>Devolutions Account</u> email address. You can create one for free, just follow the link provided.

VPN

Open a *VPN* to access your data prior to connecting to your **Devolutions Online Database**.

Remote Desktop Manager - Devolutions Password Hub Personal	_		×
Devolutions Password Hub Personal			
General VPN Advanced			
Type On first connect	۲		
RDM File]		
Override credentials			
Username			
Domain			
Password			
	ОК	Canc	el

ADVANCED

This is the **Server** address.

🔲 Remot	e Deskto	p Manager -	Devolutions Password Hub Personal	-		×
	Deve	olution	s Password Hub Personal			
General	VPN	Advanced				
රී	Server					
				ОК	Cance	el

5.4.6 SQLite

DESCRIPTION

Remote Desktop Manager's SQLite data source is ideal for single user and stand-alone situations. More powerful and more flexible than the XML file format, it also supports a few of the Advanced Data Source options like Logs and Attachments.

HIGHLIGHTS

- Full connection log and attachments support
- The Online Backup Service is available for this data source

All passwords are encrypted by default by Remote Desktop Manager. You can specify a custom password to fully encrypt the content of the SQLite database.



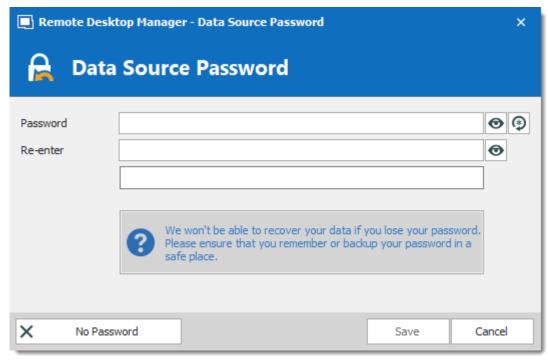
Password recovery is not possible, the data will be unrecoverable if you cannot authenticate. Please ensure you backup the password in a safe place.

SQLite supports an unlimited number of simultaneous readers, but will only allow one writer at any instant in time. For this reason Remote Desktop Manager does not support sharing a SQLite data source between several users by storing it on a network drive. If you want to share your data and work in a team environment with your colleagues, please use one of the <u>Advanced Data Sources</u>. Please consult <u>SQLite.org</u> for more information.

PASSWORD MANAGEMENT

You can specify a password to further encrypt your data. Specify it at creation time. If the data source already exists you can modify the password by using the *File* – *Manage Password* dialog.

Change or clear the password of a SQLite data source.



Manage password dialog

SETTINGS

🔲 Remote Desktop Manager - SQLite	-		×
SQLite			
General Backup VPN Advanced			
Name			
Database C: \Users \jmajeau \AppData \Local \Devolutions \Remot Password			
Always ask password Test Connection			
Two factor <u>None</u>			
ID E245E962-2D81-4A36-8359-0A9BB552FAAB	ОК	Can	cel

SQLite - General Tab

Name	Name of the data source.
Database	Indicates the filename of the SQLite database (.db).
Password	Specify a password to further encrypt your data source.
Always ask password	Always ask for the password when connecting to the data source.
Test Connection	Test the current database path and password for conneciton.
Two factor	Enable the <u>2-Factor Authentication</u> to access your data source.

BACKUP

🔲 Remote Desktop Manag	jer - SQLite			×
SQLite				
General Backup VPN	Advanced			
Backup	Online Backup 👻			
Backup name	😧			
			-	
ID 98F74508-2EBD-424A-	886B-293D17488814 C	ĸ	Cance	9

SQLite - Backup Tab

Backup	Select between:
	• None: No backup of your data source will be created.
	• File backup: Your backup will be saved to a chosen file but will not automatically do backup every 30 seconds.
	 Online Backup: An Online Backup (using <u>Online Backup</u>) will automatically be created.

VPN

Open a VPN to access your data prior to connecting to your SQLite.

🔲 Remote Desktop Manager - SQLite	-		×
SQLite			
General Backup VPN Advanced			
Type On first connect RDM File Override credentials Username Domain Password			
ID 98F74508-2EBD-424A-886B-293D17488814	ОК	Cano	el

SQLite - VPN Tab

ADVANCED

Remote Desktop Manager - SQLite	- 🗆 X
SQLite	
General Backup VPN Advanced]
Auto refresh	
Disable reveal password	
Disable caching	
Command timeout 60 🌲 sec	
	More Settings
	Manage File
ID 7705BCD7-E107-43A5-A050-FA08482CBEFE	OK Cancel

SQLite - Advanced Tab

	DESCRIPTION
Auto refresh	Set the interval for the automatic refresh.
Disable reveal password	Disable the reveal password feature when a user access this data source.
Disable caching	Entries will be reloaded in Simple mode in the data source. See <u>Caching</u> topic for more information.
Command timeout	Waiting time before a command timeout.
More Settings	Use to directly modify the connection string value.
Manage File	Contains multiple SQLite commands to facilitate managing. You should usually only access these when our support teams demands it.

5.4.7 WebDAV

DESCRIPTION



With the WebDAV data source, Remote Desktop Manager downloads and uploads the session settings directly from a file located on a WebDAV site.

SETTINGS

🖪 Remote Desktop Manag	er - WebDav	-		×
😂 WebDav				
General VPN Advanced				
Name Host	Port 80 ‡			
Username	Use SSL			
Password	Always ask password			
Master key	✓ Always ask master key			
Filename				
	Read-only			
ID 33E54F5C-3AC4-4762-E		ок	Cance	el

WebDAV - General Tab

	DESCRIPTION
Name	Enter the name of the data source.
Host	Enter the hostname or IP address of the remote device.
Port	Enter the port of the remote device.
Use SSL	Use the SSL encryption.
Usernam e	Enter the account username to access to the remote device.
Passwor d	Enter the account password to access to the remote device.
Always ask passwor d	Always ask password input when connecting to the data source.
Master key	Add an additional security layer by encrypting your data source with a master key.
Always ask master key	Always prompt for the master key when connecting to the data source.
Filename	Enter the file name. If it does not exists, it will be created automatically.
Read- only	Set the data source to read-only.

Data Sources	251
--------------	-----

Open a VPN to access your data prior to connecting to your **WebDAV**.

Remote Desktop Manager - WebDav	-		×
See WebDav			
General VPN Advanced			
Type On first connect			
RDM File			
Username			
Password			
ID 33E54F5C-3AC4-4762-BA16-B63F4C19518F	ОК	Cance	el

WebDAV - VPN Tab

ADVANCED

Remote Desktop Manager - WebDav	-		×
😂 WebDav			
General VPN Advanced			
Auto refresh 300 🗘 sec			
Log enabled			
ID 33E54F5C-3AC4-4762-BA16-B63F4C19518F	ОК	Canc	el

WebDAV - Advanced Tab

Auto refresh	Set the interval for the automatic refresh.
Log enabled	Enables logging and its features.

5.4.8 XML

DESCRIPTION



Remote Desktop Manager saves the settings directly in an XML file format.

HIGHLIGHTS

- It is possible to configure an auto refresh interval.
- The Online Backup is available for this data source.

Although it can be shared between multiple locations, there is no conflict management for the configuration. If you share with other users you may get update conflicts or otherwise run into issues. This data source type is meant for a single user using multiple computers, not multiple users.

All passwords are encrypted by default. You can specify a custom password (master key) to fully encrypt the content of the file. It is impossible to recover the data if the master key is lost. Please make sure to remember or backup the master key in a safe place.

SETTINGS

GENERAL

Remote Desktop Manager - Xml			×
Se Xml			
General Backup VPN Advanced Image: State of the sta			
ID 0EAF8F90-05ED-455C-A912-4D260B353693	к	Canc	el

XML - General Tab

Name	Name of the data source.
Filenam e	Specify the full path of the XML file used to save the data. Relative paths and environment variables can be used as well.
Master key	Add an additional layer of security by encrypting your data source with a master key.
Always ask master key	Always prompts for the master key when connecting to the data source.

BACKUP

🔲 Remote Desktop Manager - Xml	-		×
😂 Xml			
General Backup VPN Advanced			
Backup name			
ID 0EAF8F90-05ED-455C-A912-4D260B353693	ОК	Cano	el

XML - Backup Tab

	DESCRIPTION
Backup	Select between:None: No backup of your data source will be created.
	 File backup: Your backup will be saved to a chosen file but will not automatically do backup every 30 seconds.
	• Online Backup : An Online Backup (using <u>Online Backup</u>) will automatically be created.
Backup name	Specify the backup name that will allow you to automatically save your sessions in a safe online storage space and restore them in the event of problems.

VPN

Open a VPN to access your data prior to connecting to your XML.

Remote Desktop Manager - Xml	-		×
Se Xml			
General Backup VPN Advanced Type On first connect RDM File Override credentials Username Domain Password			
ID 1DC1E4B2-F219-424D-9CB6-24C02EE2E970	ОК	Can	cel

XML - VPN Tab

ADVANCED

Remote Desktop Manager - Xml	-		×
Se Xml			
General Backup VPN Advanced Image: Im			
ID 1DC1E4B2-F219-424D-9CB6-24C02EE2E970	ОК	Cano	el

XML - Advanced Tab

Auto refresh on file change	Indicate if the application monitor the file changes to automatically refresh the data source.
Disable reveal password	Disable the reveal password feature when a user accesses this data source.
Allow custom images	This will enable the loading of any custom images in the tree view.
Read-only	Set the data source in read only. No new entry can be created and the existing data cannot be edit.

5.5 Import/Export Data Source

DESCRIPTION

To simplify deployment for multiple users, it is possible to export and import data source configurations. The generated .rdd file contains all the information to recreate

the configuration. Please note that the .rdd file does not include the database content. Only the configuration is exported. Use the entries's <u>Export</u> functionality to backup or copy the database's content.

	e Desktop Manager		2
- 🖉	🛍 🗙 🍓 👼 🔒		
General	Backup VPN Advanced		
D	ame Local Data Source atabase assword Always ask password Test Connection		
	wo factor None		
Туре	Name		Locked
	Name Local Data Source	A	Locked
7	Name Local Data Source QA-LEX Duo	*	Locked
7 >>	Name Local Data Source	*	Locked
7	Name Local Data Source QA-LEX Duo	*	Locked

Use File - Data Sources to access the import or export functionality.

Data Sources - Import and Export

Whether or not users can **Read/Write** in <u>Offline mode</u> is first decided at the data source's <u>Caching mode</u> level. **This cannot be changed remotely.** If you wish to prevent or allow remote users the Read/Write offline feature, you should do so before exporting your data source.



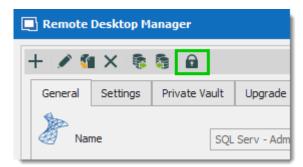
A locked data source can be exported and imported, but the content will be locked unless a password is entered when the data source is selected. See <u>Lock Data Source</u> for more information.

5.6 Lock Data Source

LOCK DATA SOURCE

To protect sensitive data in your data source configuration (e.g. server URL or credentials), you may wish to lock the data source configuration before you deploy it to your users. You can do it by using the Lock/Unlock button from the toolbar.

SETTINGS



Lock Data Source toolbar

The locked data source will require a password. The password must be specify when the lock is applied. Use the same password to unlock it or to modify the data source configuration.

🔲 Remote Desktop	o Manager - Data Source Lock	×
🔒 Data S	Source Lock	
Master key Re-enter	 ⑦ ⑦ 	
	Lock Car	ncel

Lock Data Source dialog



There is **NO way** of unlocking the data source if the password is lost or forgotten. In such an event, you will need to configure a new data source. However the content of the database will not be lost.

5.7 Offline mode

DESCRIPTION

The offline mode connects to a local copy of the data source when you are not connected to the data source. This is useful when working from a remote location and the network is unreachable or if there is any kind of connectivity issue.

The read/write offline mode adds to users the possibility to manipulate entries while disconnected from the data source. This is useful for off-site personnel or when working in environments that have sporadic network availability.



This feature is not available for all data sources, please consult the help topic of the respective data source to know if it supports offline mode.

The offline cache is first encrypted using our own private key mixed with some information taken from the local computer. This makes it impossible for a copy on another machine to be readable. By default it is also encrypted with Windows NTFS encryption, in which case there is no key saved anywhere.

For added security, offline files are set to expire after a delay. The default expiry is set to 7 days but can be modified via the <u>Data Source Settings (System Settings)</u>.

Remote Desktop Manager will prompt for offline mode when the application is unable to reach the data source but the offline mode can be toggled manually with *File – Go Offline*.

Several features are not available in offline mode, such as:

- Attachments and logs.
- <u>User management</u> (Add/Edit/Delete users).

AVAILABILITY

The offline mode availability relies on several settings:

- The data source offline cache must be enabled. (This step needs to be done before you export your data source to other computers)
- The user's account.
- The data source settings.
- The group policies.
- At the Vault level.

The lowest setting (in terms of security) prevails over the others, which may prevent you from using the offline mode. If the **Go Offline** button is not available, please consult your administrator.

The **<u>Data Source Information</u>** displays the size of the offline cache file along with the effective modes (disabled, read-only or read/write).

	Data Source Info	rmation	
⊠ 4			
ID			
Server			
Databas	e		
Is DB ov Is Syste			
Offline n		64.0 KB	Read/write
	Group Policy settings		Read/write
	System settings		Read/write
	User settings		Read/write
	Data source config		Intelligent
	Vault		Allow offline

My Data Source Information - Offline mode

CACHING MODE

The caching mode must be set to **Intelligent** to enable the offline mode.

This step cannot be modified remotely once you have exported your data source settings. You should take a moment and think about the needs of your data source and select what is appropriate before moving on to exporting.

Remote Desktop Manager - Devolutions Password Server – 🛛		×	
Server Devolutions Password Server			
General Settings User Vault VPN Advanced			
Caching mode Ping online method Popup license expiration Auto refresh Prompt for offline mode on startup Auto go offline			
ID	ОК	Cano	cel

Data Source configuration – Advanced – Caching mode

Disabled	Prevent an offline cache from being used.
Intelligent	Use the offline cache only for recent changes.



<u>Read/Write</u> offline mode is not available with the Basic subscription of <u>Devolutions Online Database</u>.

Some features of Remote Desktop Manager are unavailable while offline. Even with read/write access mode, you may not be able to perform all actions, such as adding attachments or managing users since these features are not cached locally. On the other hand, note that the <u>User Vault</u> is still available in offline mode.

GRANT/DENY OFFLINE

🜔 Watch Video

Disabled	Prevents an offline cache from being used.
Read- only	Allow to view and use entries only. The content of the data source cannot be modified.
<u>Read/Writ</u> <u>e</u>	Allow to view, use, and edit entries. Conflicts caused by offline modifications are managed when back online.

Beyond the group policies, the Offline mode is controlled at four levels:

- User permissions.
- Data source settings (System Settings) (server configuration).
- In a Vault's configuration.

A user must be granted Read/Write at all three levels to allow read/write privileges.

Disabled or Read-	Disabled or Read-	Allow offline	Disabled
only or Read/write	only or Read/write	disabled	
Disabled or Read-	Disabled or Read-	Allow offline	Disabled
only or Read/write	only or Read/write	enabled	

USER PERMISSIONS			EFFECTIVE ACCESS
Disabled or Read- only or Read/write	Disabled	Allow offline enabled	Disabled
Disabled	Disabled or Read- only or Read/write	Allow offline enabled	Disabled
Read-only or Read/write	Read-only or Read/write	Allow offline disabled	Disabled
Read-only or Read/write	Read-only or Read/write	Allow offline enabled	Read-only
Read-only or Read/write	Read-only	Allow offline enabled	Read-only
Read-only	Read-only or Read/write	Allow offline enabled	Read-only
Read/write	Read/write	Allow offline enabled	Read/write



You want to know the current effective Offline mode while connected? See <u>My Data Source Information</u>.

5.7.1 Offline Read/Write

DESCRIPTION

The **Read/Write** offline mode allows the user to add, edit and delete entries while the data source is offline. Those changes are saved locally and synchronized with the data source once it is back online.



Some functionalities are not available while offline and you may not be able to perform all actions. Note that the <u>User Vault</u> is still available in offline mode.

Once offline, the users security settings still applies. Add/Edit/Delete privileges granted by the administrator are still in effect. See <u>User Management</u>.

When an entry is edited by an online user while another user is offline, the local version of the entry stored in the offline cache becomes different from the online version. This causes a conflict when the offline user gets back online.

OFFLINE EDITS WORKFLOW

- Connect to the data source.
- Go offline with *File Go Offline*.
- Edit any entry.
- Go back online with *File Go Online*.

The Offline Edits window is displayed:

🛃 Offli	ne Edits					
^	Action	Name	Group	Host	^	Compare
Accept	Edit	David@windjammer	Telemark\Credentials			-
/ Accept	Edit	ben@telemark	Telemark (Credentials			Accept
/ Accept	Edit	Domain ladmin	Telemark\Credentials\Admin			Deject
/ Accept	Edit	Telemark SQL1	Telemark Montreal	VTELESRV-SQL		Reject
/ Accept	Edit	ted@windjammer	Windjammer \Credentials			
/ Accept	Edit	bill@windjammer	Windjammer \Credentials			
Accept	Edit	ladmin VMW	Windjammer \Credentials			Accept All
Accept	Edit	david@windjammer	Windjammer \Credentials			Reject All
Conflict	Edit	Downhill 1	Downhill Pro	10.10.0.50		
Conflict	Edit	DB 1 (\$CUSTOM_FIELD	Telemark\Boston			
Conflict	Edit	TELEMARK\tiffany	Windjammer (Credentials		~	

Offline Edits

Use this dialog to accept/reject your offline changes.

You can use the **Compare** action to have a side by side comparison of your changes with the current live entry.

Entries will be marked:

- Accept when no outside changes have been detected.
- Conflict when outside changes have been detected since you were last connected.

MULTIPLE OFFLINE EDITS

When multiple users edit the same entry offline simultaneously, a conflict occurs when the second user is back online.

Here is an example of such a case to help resolving conflicts properly:

When the first user returns online, the **Offline Edits** window is displayed. Changes are accepted by default.

Remote Desktop		Offline Edits			- 🗆 X
Status	Action	Name	Group	Host	Compare
Accept	Edit	Domain ladmin	Telemark\Credentials\Admin		Accept Reject
					Accept All Reject All
Conflict: 0 Add: 0 Ed	dit: 1 Delete	:: 0		0	K Cancel

Offline Edits For The First User Back Online

When a second user returns online, a conflict occurs and the **Offline Edits** window is displayed.

	e Edits	Offline Edits				_		×
Status	Action	Name	Group	Host			Compare	
♣ Conflict	Edit	Domain ladmin	Telemark\Credentials\Admin				Accept Reject	
							Accept All Reject All	
Conflict: 1 Add: 0 E	dit: 1 Delete	: 0	·		ОК	:	Cano	el

Offline Edits For The Second User Back Online

When the conflict occurs, the user must decide to accept or reject the changes. The different versions of the entry can be compared to view which changes has been made.

COMPARE VERSIONS OF AN ENTRY

Click the **Compare** button to compare the versions of a conflicted entry. Analyze the XML structure of the entry to decide to **Accept** or **Reject** the changes.

The content on the left represents the entry retrieved online, and the content on the right represents the local version of the entry, edited in Offline mode.

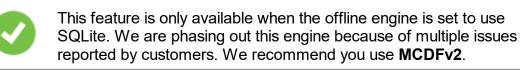
Live Telemark SQL1 - 2017-08-29 3:05 PM		Offline Telemark SQL1 - 2017-08-29 10:15 AM
OL Server Browser for SOL Server 2014		SQL Server Browser for SQL Server 2014
gl Server Customer Experience Improvement Program	~	Sgl Server Customer Experience Improvement Program
Visual Studio 2010 Prereguisites - English		Visual Studio 2010 Prereguisites - English
<pre>//Softwares></pre>		
<creationdatetime>2017-08-25T13:26:27</creationdatetime> 2017-08-25T13:26:272017-08-25T13:262017-08-25T13:26:272017-08-25T13:262017-08-25T13:262017-08-25T13:26:272017-08-25T13:26:272017-08-25T13:262017-08-25T13:26:272017-08-25T13:262017-08-25T13:262017-08-25T13:262017-08-25T13:262017-08-25T13:262017-08-25T13:262017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T132017-08-25T13	ime>	<creationdatetime>2017-08-25T13:26:27</creationdatetime>
<credentialconnectionid>1310CF82-6FAB-4B7A-9EEA-3E2E4</credentialconnectionid>	151C	<credentialconnectionid>1310CF82-6FAB-4B7A-9EEA-3E2E451</credentialconnectionid>
<description <="" by="" david.="" desc<="" description="" edited="" td=""><td>crip</td><td><description>Description edited by John. </description></td></description>	crip	<description>Description edited by John. </description>
<group>Telemark\Montreal</group>		<group>Telemark\Montreal</group>
<id>6d6e2aa9-0dd5-420e-84c7-c30fe72c99aa</id>		<id>6d6e2aa9-0dd5-420e-84c7-c30fe72c99aa</id>
<name>Telemark SQL1</name>		<name>Telemark SQL1</name>
<openembedded>true</openembedded>		<openembedded>true</openembedded>
<pinembeddedmode>False</pinembeddedmode>		<pinembeddedmode>False</pinembeddedmode>
<screensize>CurrentWorkAreaSize</screensize>		<screensize>CurrentWorkAreaSize</screensize>
<updatedatetime>2017-08-29T19:05:05<td>=> V</td><td><pre><updatedatetime>2017-08-29T14:15:53</updatedatetime></pre></td></updatedatetime>	=> V	<pre><updatedatetime>2017-08-29T14:15:53</updatedatetime></pre>
<updatedbv>OA-W10\david</updatedbv>		
<	>	

Compare Session Modification

5.8 Manage Cache

DESCRIPTION

This option allows you to manage your cache which decides how the client will re-load entries when changes are detected. On large data sources caching is a must and will increase performance significantly.



The Manage Cache options should usually only be used <u>upon request</u> <u>from our Support Team</u> when experiencing cache issue.

SETTINGS



The Manage Cache options will only be available when using an SQLite cache.

🔲 Remote Desktop Manager - Manage SQLite File	×
🗧 Manage SQLite File	
PRAGMA integrity_check; REINDEX DatabaseInfo; REINDEX Connections;	4
Clear Output Analyze Vacuum Repair Clo	se

Manage Cache

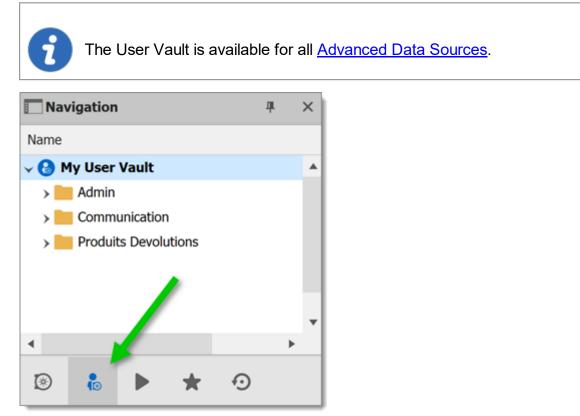
Clear output	Clear the output window.
Analyze	Analyze will generate a report of everything that is contained in the cache. It will read the offline data and perform a read/write test to verify if the offline file is valid.
Vacuum	This will run an SQLite command to reduce your cache size. The Vacuum should only be used after trying to execute a Repair of your cache. If the repair hasn't solved your issue running a Vacuum will usually solve issues when dealing with a corrupted cache.
Repair	The repair will run four different SQLite commands to repair a corrupted cache: PRAGMA integrigy_check REINDEX DatabaseInfo REINDEX Connections REINDEX Properties

5.9 User Vault

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DESCRIPTION

The **User Vault** is a user centric Vault for entries of any type. It allows each user to create entries that only them can access.



Navigation Pane – User Vault

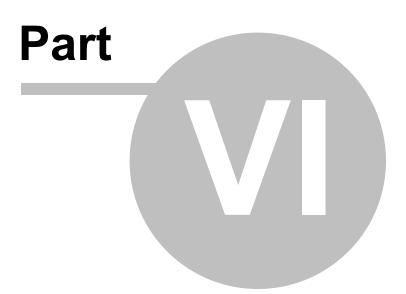
A NOTE ON CREDENTIALS

Credentials in the User Vault can be used in two ways:

- 1. From a session using the **User Vault search**.
- 2. When using the User Specific Settings feature.

These restrictions can easily be understood when you keep in mind that the User Vault is in fact contained in the user area of the database. It must be used from within the User Vault, or by using our extension mechanism that is user specific.

Commands



6 Commands

6.1 Context Menu

DESCRIPTION

The **Context Menu** contains several entry-specific actions. The available actions depend on which type of entry is selected. Right click on an entry to display the context menu.

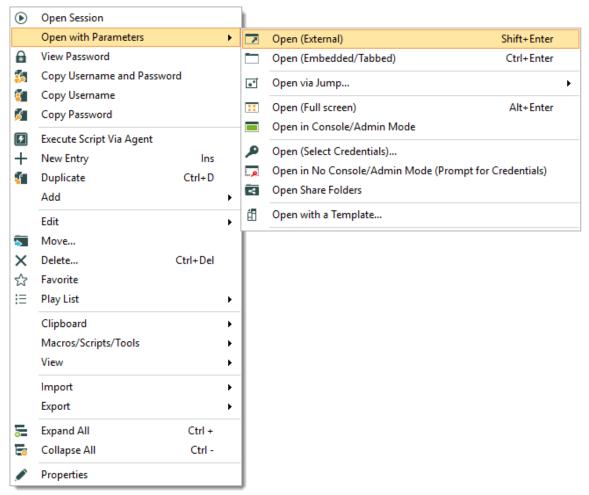
谢	Open Session	
۲	Check Out	
	Open with Parameters	•
6	View Password	
5	Copy Username and Password	
	Copy Username	
2	Copy Password	
9		
+	•	Ins
<u> </u>	Duplicate Ctr	rl+D
	Add	•
	Edit	•
•	Move	
×	Delete Ctrl+	-Del
슔	Favorite	
ŧΞ	Play List	•
	Clipboard	•
	Macros/Scripts/Tools	+
	View	•
	Import	•
	Export	•
0	Expand All C	trl +
5	Collapse All C	trl -
ø	Properties	

Context Menu

6.1.1 Open with Parameters

DESCRIPTION

The **Open with Parameters** menu all options available to open a session.



Open with Parameters

Open (External)	Open a session as an external process, with no direct link to Remote Desktop Manager.
Open (Embedded/Tabbed)	Open the session within the confines of the Remote Desktop Manager dashboard and display tabs at the top

	DESCRIPTION
	of the window.
Open via Jump	Open the session through a <u>Jump</u> host.
Open (Full Screen)	Open the session with the full screen display mode.
Open in Console/Admin Mode	Connect to the console session of a server using Remote Desktop for Administration.
Open (Select Credentials)	Prompts you with the list of the credentials link to your Data Source to allow you to chose the one needed to open your session.
Open in No Console/Admin Mode	Open your session normally and prompt your for your credentials to connect.
(Prompt for Credentials)	
Open Share Folders	Open the shared folders of the remote computer.
Open with a Template	Open from a template that you have already created.
VPN	Select between:
	• Open (Without VPN).
	Open VPN Only.
	Close VPN Only.

6.1.2 Documentation

DESCRIPTION

The **Documentation** feature allows for storing information about resources in the data source. To access an entry's documentation, select an entry in the <u>Navigation Pane</u>, then select the **Documentation** tab in the dashboard. Alternatively, right-click an entry in the Navigation Pane, then select **View – Documentation**.

The documentation is written using Markdown, a plain text formatting syntax.

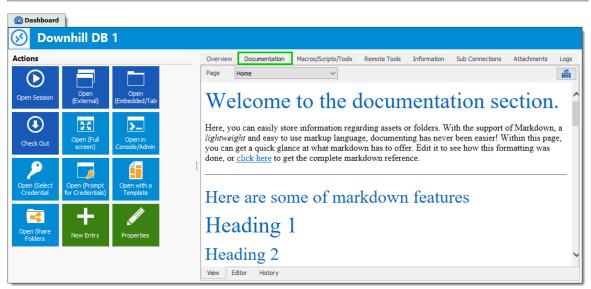


This feature is available with Devolutions Server, MariaDB, MySQL and SQL Server data sources.



The *Documentation* feature is encrypted **only** for the data source Devolutions Server. If you are using data sources like MySQL, MariaDB, SQL Server or SQL Azure, the *Documentation* feature is **not** encrypted.

The Documentation feature is not available offline.

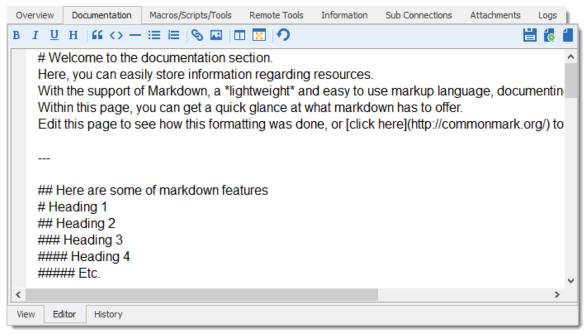


Documentation of an entry

6.1.2.1 Editor

DESCRIPTION

The documentation editor is a simple plain text editor. The text is formatted using the Markdown text formatting syntax. Markdown is a markup language designed to be as easy-to-read and easy-to-write as possible.



Documentation editor

MARKDOWN FORMATTING TAGS

- Paragraphs
- Emphasis
- <u>Headers</u>
- Lists
- Horizontal rulers
- Links
- Images

- Blockquotes
- <u>Code examples</u>

PARAGRAPHS

A paragraph is one or more consecutive lines. Normal paragraphs should not be indented with spaces or tabs.

EMPHASIS

Two methods of text emphasis are available: **Bold text**

Italic text Output:

🐼 Docu	umentation - Downhill DC ×	
Page	Home	4
Bold te:	ext	
Italic te	ext	
View E	Editor History	

HEADERS

There are two ways of creating headers with Markdown.

First and second level can be created by "underlining" the text with equal signs (=) and hyhens (-). First level header

Second level header -----Output:



More levels of headers can be created by using one to five hash symbol (#) at the beginning of the line. # First level header

##	Second level header
###	Third level header
###	# Fourth level header
# # # Outp	## Fifth level header put:
	S Documentation - Downhill DC ×
	Page Home ~
	First level header
	Second level header
	Third level header
	Fourth level header

LISTS

View

Fifth level header

Editor

History

Use asterisks, pluses, and hyphens to create an unordered bulleted list. These three markers are interchangable.

* Item 1

- * Item 2
- * Item 3

Commands	279

or + Item 1 + Item 2 + Item 3 or - Item 1 - Item 2 - Item 3

Output:

Page	Home 🗸	
	Item1Item2Item3	
	Editor History	

Use regular numbers, followed by periods, to create an ordered bulleted list. 1. Item 1 2. Item 2 3. Item 3

- Output:

🔗 Doc	cumentation - Downhill DC ×	
Page	Home	
	1. Item 1 2. Item 2	
	3. Item 3	
View	Editor History	

HORIZONTAL RULERS

Use three undersocres, asterisks, or hyphens to create a horizontal ruler.

or * * * or ___ Output:

🔗 Do	nentation - Downhill DC 🗙	
Page	Home ~	
View	litor History	

LINKS

Use square brackets to delimit the text you want to turn into a link.

There are two ways of creating links: inline and reference.

```
Use parentheses immediately after the link text for inline-style links:
Navigate to the [Devolutions website] (https://devolutions.net).
Output:
```

🔗 Docu	umentation - Downhill DC 🗙	
Page	Home ~	10
Navigat	te to the <u>Devolutions website</u> .	
View	Editor History	

Optionally a title attribute may be included in the parentheses.

Navigate to the [Devolutions website] (https://devolutions.net "Website of Devolutions Output:

🔗 Docu	umentation - Downhill DC 🗙	
Page	Home ~	10
Navigat	te to the <u>Devolutions website</u> . Website of Devolutions	
View	Editor History	

For reference-style links, define the links elsewhere in the document, then refer to a link by its name in another set of square brackets.

Navigate to the [Devolutions website] [mainwebsite] or the [Devolutions forum] [forumweb

```
[mainwebsite]: https://devolutions.net/ "Website of Devolutions"
[forumwebsite]: https://forum.devolutions.net/ "Forum of Devolutions"
Output:
```

🐼 Doc	cumentation - Downhill DC 🛛 🗙	•
Page	Home ~	10
Naviga	ate to the <u>Devolutions website</u> or the <u>Devolutions forum</u> .	
View	Editor History	

The title attribute is optional again. Link names may contain letters, numbers and spaces, but are not case sensitive.

IMAGES

Image syntax is very similar to link syntax. Images must be added in the image manager before referencing them.

To add images in the image manager, click the *Manage images* we button.

Ove	erview	Documentation	Macros/So	ripts/Tools	Remote Tool	s Informa	ation	Sub Con	nections	Attachments	Log	s
В	ΙÜ	н 🛛 🛍 🔿 —	• 🖂 🖂	S 🖬 🗆	S 🛛					Ë	6	1
	## P	wnhill DB 1 Purpose of this	s entry									^
		this entry 🗖 his server	Remote Des	ktop Manag	jer				×			
		low to us	lm	ages								
			kLarge.png					Add				
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		eck if the g the ren	Insert			ОК		Cance	el 🛛			
	lf nor	ne of the solut	ions abo	ve work, o	contact the	adminis	trator					
<											>	
Viev	w Ed	itor History										

Documentation editor – Image manager

Click *Add* to select an image from the computer. Select the image in the list, and click *Insert* to place the image in the text.

Remote Desktop Manager			×
📒 Images			
LockLarge.png 2		Ad Dele	_
		Refr	esh
Insert 3	OK	Ca	ncel

Documentation editor - Add an image

BLOCKQUOTES

Quote a passage of text by inputting a greater-than (>) symbol at the beginning of the line of text.

> Quoted passage of text Output:

🐼 Documentation - Downhill DC 🛛 🗙	
Page Home	~
Quoted passage of text	
View Editor History	

Blockquotes can easily be nested.
> Quoted passage of text
>> Nesting a quoted passage of text Output:

Ø Documentation -	Downhill DC ×	
Page Home	~	
Quoted passag	ige of text a quoted passage of text	
View Editor Histo	ory	

CODE EXAMPLES

Inline code is created by enclosing the text in backthicks (`). Inline `code`.

Output:	
---------	--

🔗 Docu	cumentation - Downhill DC 🛛 🗙	
Page	Home ~	
Inline c	code.	
View	Editor History	

Code blocks are created be indenting the text with four spaces at the beginning of each lines There must have an empty line before. // Testing indented code

Output:

Ø Documentation − Downhill DC ×
Page Home ~
// Testing indented code
<pre>var markdownAwesomeness = 0;</pre>
<pre>if (indentedCodeWorks) { markdownAwesomeness++; }</pre>
View Editor History

A specific syntax highlighting can be specified as well.

```
```javascript
var s = "JavaScript syntax highlighting";
alert(s);
```

#### Output:

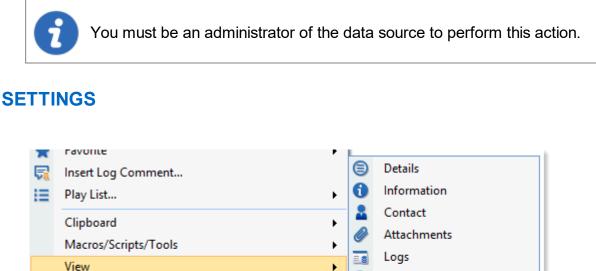
🐼 Doc	sumentation - Downhill DC 🗙	
Page	Home ~	
	<pre>s = "JavaScript syntax highlighting"; t(s); Editor History</pre>	

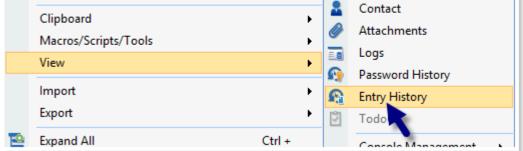
#### 6.1.3 Entry History

## DESCRIPTION

*Entry History* feature allows you to view details regarding different version of your sessions and also gives you the option of performing compares between different versions.







Home - Entry History

To display the entry history, *right-click* on an entry and select *View - Entry History*.

## ENTRY HISTORY VIEW

The entry history view dialog allows you to compare two entries and manage history revisions. To compare simply select any two entries then use the *Compare* button. You can delete any history revision or the entire history using the *Delete* and *Delete All* buttons.

Name	NewClient	NewClient		Action     Update       Group     Clients\Downhill pro       Created on     5/28/2015 4:03 AM       Modified on     11/4/2015 6:00 AM		Sh	Shared template		
Connection type	ction type RDPConfigured		Group						
Username product@devolutions.r Data source user product@devolutions.r		olutions.net	Created on						
Action	Session Type	Name	Group	Shared Template		Create	d On	Modified On	
Update	RDPConfigured	NewClient	Clients\Do	wnhill		5/28/2015 4:03 AM		11/4/2015 6:00 A	
Update	RDPConfigured	NewClient	Clients\Do	wnhill		5/28/2015 4:03 AM		11/4/2015 5:52 A	
Update	RDPConfigured	NewClient	Clients\Downhill			5/28/2015 4:03 AM		9/2/2015 3:15 AM	
Update	RDPConfigured	NewClient	Clients\Downhill			5/28/2015 4:03 AM		5/28/2015 4:06 A	
Update	RDPConfigured	NewClient	Clients\Do	Clients\Downhill		5/28/2015 4:03 AM		5/28/2015 4:05 A	
Update	RDPConfigured	NewClient	Clients\Do	wnhill		5/28/2015 4:03 AM		5/28/2015 4:05 A	
Insert	RDPConfigured	NewClient	Clients\Downhill			5/28/2015 4:03 AM		5/28/2015 4:03 A	

Entry history view

<pre></pre> <connectiontype>RDPConfigured</connectiontype> <connectiontype>RDPConfigured</connectiontype> <createdby>VDEV33\Devolutions</createdby> <creationdatetime>2015-05-28T10:03:50.7241638-04:00<creationdatetime>2015-05-28T10:03:50.7241638-04:00<creationdatetime>2015-05-28T10:03:50.7241638-04:00<p< th=""><th>NewClient - 11/4/2015 6:00 AM</th><th>NewClient - 9/2/2015 3:15 AM</th></p<></creationdatetime></creationdatetime></creationdatetime>	NewClient - 11/4/2015 6:00 AM	NewClient - 9/2/2015 3:15 AM
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		/Tools>
<pre>ConnectionType&gt;RDPConfigured ConnectionType&gt;RDPConfigured ConnectionType&gt;RDPConfigured ConnectionType&gt; ConnectionType&gt;RDPCOnfigured ConnectionType&gt; Connec</pre>		· · · · · · · · · · · · · · · · · · ·
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DisableMenuAnims>true  DisableThemes>true  DisableThemes>true Cfoup>Clients\Downhill pro ClibSa6fbe26-2510-4e49-b13c-846b9c2adb52 CIDSa6fbe26 KeyboardHook>InFullScreenMode Name>NewClient CopenEmbeddedMode>False PinEmbeddedMode> SmartSizing>true 	ConnectionID>1310CF82-6FAB-4B7A-9EEA-3E2E4	<credentialconnectionid>1baa6321-3bfe-430e-9d9b-f89685</credentialconnectionid>
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<pre>XID&gt;8a6fbe26-2510-4e49-b13c-846b9c2adb52</pre>	aper>true	)isableWallpaper>true
<pre>KeyboardHook&gt;InFullScreenMode <pre></pre> <pre< td=""><td><pre>&gt;&gt;ownhill pro</pre></td><td><pre>Group&gt;Clients\Downhill pro</pre></td></pre<></pre>	<pre>&gt;&gt;ownhill pro</pre>	<pre>Group&gt;Clients\Downhill pro</pre>
<pre>(Name&gt;NewClient </pre> <pre>(Name&gt;NewClient<!--/pre--> </pre> <pre>(OpenEmbedded&gt; </pre> <pre>(OpenEmbedded</pre> <pre>(SmartSizing&gt;true<!--/smartSizing--> </pre> <pre>(SmartSizing&gt;</pre>	2510-4e49-b13c-846b9c2adb52	ID>8a6fbe26-2510-4e49-b13c-846b9c2adb52
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PinEmbeddedMode>False /pinEmbeddedMode <pinembedded< td="">       SmartSizing&gt;true<!--/smartSizing--> <smartsizing< td=""></smartsizing<></pinembedded<>		
<pre>SmartSizing&gt;true</pre> <pre>SmartSizing</pre>	<pre>&gt;true</pre>	-
	ode>False	
	true	
	24c6-9c48-4ce9-9016-d6c37469bf45	<stamp>fd824b1a-8cdc-410a-b2fa-1585c8ea4404</stamp>
	Time>2015-11-04T11:00:50. 0130621-05:00 <td>-</td>	-
<updatedby>VDEV33\Devolutions</updatedby>	<pre>/-DEV028\Maurice</pre>	<updatedby>VDEV33\Devolutions</updatedby>

Compare session modifications

## **VIEW DELETED ENTRIES**

Name	Training		Actio	on De	lete		Shar	ed template	
Connection type	RDPConfigure	d	Grou	up Cli	Clients\Downhill pro				
Username training@devolu		lutions.net	Crea	ated on 11	11/13/2015 6:02 AM 11/13/2015 6:02 AM				
Data source user	training@devo								
Data source user	u aning weeve	iu uons.net	Moul	ineu on II	15/2015 6:02 AM				
Action	Session Type	Name		Group	Shared Template	Created On		Modified On	J
Delete	RDPConfigured	Training	c	Clients\Downhi	I 🗌	11/13/2015 6:02 AM		11/13/2015 6:	ł.
Delete	SessionTool	Copy MAC to clipboard				11/12/2015 6:18 AM		11/12/2015 6:	1
Delete	Group	Downhill pro	Clients\Downhill		I	9/14/2015 6:44 AM		11/12/2015 4:	
Delete	Credential	My personal credentials	Clients\Downhill		I	4/2/2015 5:21 AM		11/12/2015 4:	
Delete	Group	James \Peterson \Stan	James\Peterson		n 🗌	9/15/2015 6:33 AM		11/12/2015 4:	
Delete Group Stew\Jam\Rock		S	Stew\Jam\Roc		9/15/2015 6:41 AM		11/12/2015 4:		
Delete DataEntry Aasdfhgy		J	James\Peterso	n 🗌	9/15/2015 7:07 AM		9/15/2015 7:0	i	
Delete	elete Group Atest		A	Atest		7/16/2015 2:05 AM		7/16/2015 4:2	
Delete	IE	Dev 2	A	Atest\Custome	rA 🗌	7/16/2015 2:32 AM		7/16/2015 4:2	Ē
Delete	Group	CustomerA		Atest\Custome	rA 🗌	7/16/2015 2:05 AM		7/16/2015 4:2	
2	T/-	-				-		alic loose i o	

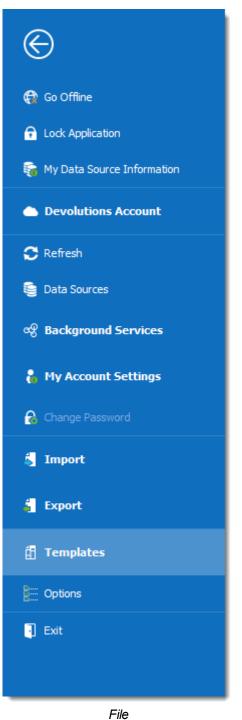
Use the Administration - View Deleted to manage and resurrect deleted entries.

Deleted Entries

## 6.2 File

## DESCRIPTION

The **File** menu contains many actions regarding the application and the data source. This menu is contextual and depends on the connected data source.



riie

## GO OFFLINE/ONLINE

Toggle the data source offline mode.

For more information, please consult the Offline mode topic.

### LOCK APPLICATION

Lock and minimize the application.

The user is prompted for the data source password when the application is restored (if required by the configuration).

### MY DATA SOURCE INFORMATION

Display configuration information relative to the current data source.

For more information, please consult the My Data Source Information topic.

## **DEVOLUTIONS ACCOUNT**

Connect to a Devolutions Account, create custom installer for Remote Desktop Manager, manage license serials, and more.

For more information, please consult the <u>Devolutions Account</u> topic.

### REFRESH

Refresh the data source and retrieve the most recent data.

For more information, please consult the <u>Refresh</u> topic.

### **DATA SOURCES**

Open the data source configuration screen.

For more information, please consult the <u>Data Sources</u> topic.

## **BACKGROUND SERVICES**

View and execute synchronizers.

For more information, please consult the **Background Services** topics.

#### **MY ACCOUNT SETTINGS**

View information about the current user and edit personal credentials.

For more information, please consult the <u>My Account Settings</u> topic.

### CHANGE MASTER KEY

Prompts to change the current Master Key

For more information, please consult the <u>Change Master Key</u> topic.

#### IMPORT

Import entries in the data source.

For more information, please consult the <u>Import</u> topic.

#### EXPORT

Export entries from the data source.

For more information, please consult the <u>Export</u> topic.

#### **OPTIONS**

Edit the application options.

For more information, please consult the <u>Options</u> topic.

### TEMPLATES

Edit templates and default settings for entries.

For more information, please consult the <u>Templates</u> topic.

### 6.2.1 Go Offline/Online

## DESCRIPTION

Toggle the data source Offline Mode.

Use the offline mode to connect to a local copy of the data source when the remote database is unavailable. This is useful when working from a remote location and the network is unreachable or if there is any kind of connectivity issue.



There are security considerations to take into account when enabling the offline mode.

The offline mode availability relies on several settings, refer to the Offline Mode topic.

The lowest setting (in terms of security) prevails over the others, which may prevent you from using the offline mode. If the **Go Offline** button is not available, please consult your administrator.

The **<u>Data Source Information</u>** displays the size of the offline cache file along with the effective modes (disabled, read-only or read/write).

	Data Source Information		
〕⊠ 4			
ID			
Server			
Database	:		
Is DB owr			
Is System			<u> </u>
Offline m	ode	64.0 KB	Read/write
	Group Policy settings		Read/write
	System settings		Read/write
	User settings		Read/write
	Data source config		Intelligent
	Vault		Allow offline
Vault		Default	

Data Source Information - Offline mode

Several features are not available in offline mode, such as:

- Attachments and logs.
- User management (Add/Edit/Delete users).

#### 6.2.2 My Data Source Information

### DESCRIPTION

The **Data Source Information** displays various information related to the current data source, such as the current user and security access.



The **My Data Source Information** view can be different depending on the <u>Data Source Type</u>. This topic uses an SQL Server data source.

Data Source Information	ı
Server	
Database	
Is DB owner	J
Is System DBA	•
Offline mode	Read/write
Group policy settings	Read/write
System settings	Read/write
User settings	Read/write
Data source config	Intelligent
General Entries User Groups Database user	
User	
Description	· · · · ·
User vault	Default
Is administrator	✓
Allow offline mode	✓
Allow drag-and-drop	✓
Is Auto Refresh	♦
Auto refresh interval	0 sec
Is Two Factor Configuration	

File – My Data Source Information

# **USER AND SECURITY**

# GENERAL

The General tab displays information about the current user and data source configuration.

General	Entries	User Groups		
Dat	abase user			
Use	r			
Des	cription			
Use	r vault			Default
Is a	dministrato	r		<b></b>
Allo	w offline m	ode		✓
Allo	w drag-and	-drop		<b>√</b>
Is A	uto Refresh	I		<b>\$</b>
Aut	o refresh int	terval	0	sec
Is T	wo Factor (	Configuration		<b></b>

My Data Source Information - General

Database user	The name of the user currently logged to the database.
User	The actual windows user.
Description	Display the description of the user connected to the data source.
Is administrator	Indicates if the user is an administrator.
Allow offline mode	Indicates if the user can use the data source in offline mode.
Allow drag-and-drop	Indicates if the user can drag-and-drop entries in the data source.

Is Auto Refresh	Indicates if the data source auto refreshes.
Auto refresh interval	Indicates the delay for the auto refresh to occur.
Is Two Factor Configuration	Indicates if the data source is configured with a second factor of authentication.

# **ENTRIES**

General	Entries	User Groups	
Add	l entries		✓
Edit	entries		✓
Del	ete entries		✓
View	w informatio	on section	✓
Imp	oort entries		✓
Exp	ort entries		✓
Allo	w add entry	in root folder	✓

My Data Source Information – Entries

Add, Edit and Delete entries	Indicates if the user has the right to add, edit, or delete entries.
View information section	Indicates if the user can view the information section of entries.

Import and Export entries	Indicates if the user has the privilege to import or export entries.
Allow add entry in Vault folder	Indicates if the user can add entries in the Vault of the data source.

### **USER GROUPS**

The **User Groups** tab displays the user groups that the user is a member of and the rights related to those user groups.



#### 6.2.3 Devolutions Account

•

## **DESCRIPTION**

▶

Use *File – Devolutions Account* to create/connect Remote Desktop Manager to your Devolutions Online Database account. The Devolutions Online Database is free for customers and includes access to the custom installer manager.

# SETTINGS

$\odot$	Remote Desktop Manager [D	ashboard]
😭 Go Offline	Devolutions Account	Tools
Cock Application	JM	
🙀 My Data Source Information		Custom Installer Manager
Devolutions Account	() Sign-out	Import Online Database Configurations
😴 Refresh	Edit Devolutions Account	
😂 Data Sources		
∞ Background Services		
ᡖ My Account Settings	Settings           Automatically sign-in at startup	
🔒 Change Password		
🖏 Import		
🖞 Export		
🖞 Templates		
E Options		
Exit		

#### **Devolutions Account**

# **DEVOLUTIONS ACCOUNT**

Sign-in or Sign-out	Sign-in with your <u>Devolutions Online Database</u> (DODB) account that has already been created.
	Sign-out of your <u>Devolutions Online Database (DODB)</u> account.

Create a New Devolutions Account	Create a new <u>Devolutions Online Database (DODB)</u> account.
Edit Devolutions Account	Edit your <u>Devolutions Online Database (DODB)</u> account.

# SETTINGS

Automatically sign- in at startup	Automatically sign-in to your <u>Devolutions Online Database</u> ( <u>DODB</u> ) account at the startup of the application. This feature is of particular importance if you are using a <u>Devolutions Online Database data source</u> or our <u>Online</u> <u>Backup</u> service.

# TOOLS

Installer File Generator	Create a Remote Desktop Manager Installer File (.rdi). Consult topic <u>Installer File Generator</u> .
Custom Installer Manager	Consult topic Custom Installer Manager.
Import Online Database Configurations	Import Online database configuration in the application.

#### 6.2.4 Backup

# DESCRIPTION

Please consult topic Online Backup for information on this service.

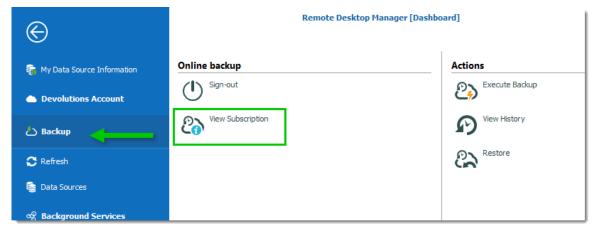
6.2.4.1 Settings

# DESCRIPTION

The <u>Online Backup</u> allows you to backup your <u>Devolutions Online Drive</u>, <u>SQLite</u>, <u>XML</u> or Microsoft Access data sources in a safe online storage. The backup option is available through *File – Backup* menu.

# SETTINGS

- 1. Click on *File Backup* to Sign-in with your <u>Devolutions Account</u>.
- 2. Click on View Subscription.



Online Backup - View Subscription

3. Click on the ellipsis to enter your **Backup name**.

Remote Desktop Manager - Devolutions Online Backup X				
🕑 Devolu	tions Online Backup			
Devolutions Cloud				
	⊉devolutions.net	1		
Settings				
Backup name		٥		
		ОК	Cancel	

Backup Name

4. You will need to specify a unique backup name in the field **New backup** for each of your data source which will then be used to backup and restore the data source. Click on **Create** to automatically create your Online Backup.

Remote Desktop Manager - Devolutions Online Backup X				
<b>Devolutions Online Bac</b>	ckup			
Name	^			
Newbarker N. O. L.	Carata	Delate	Colort	Canad
New Backup	Create	Delete	Select	Cancel

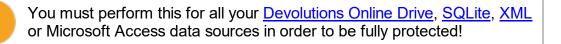
Create Backup

5. Once you've completed all the steps, perform a change in the data source to properly activate the Online Backup.

6. The backup logo will display a green arrow meaning your backup is now enabled.

🖀 Dashboar	d						•
Actions E	ntries						
Actions							
+			<b>6</b>		0		
New Entry	Add Session	Add Website	My Data Source Information	Data Sources	Refresh		
		<b>P</b>					
Add Folder	Add Information	Add Credential Entry					
	É	٠.					
Add Contac	t Add Document	Add Macro/Script/Tool					
Administra	ition						
Root Setting	IS						
							ВАСКИР
							Configure the Online Backup service
ES						en ren rave eo 21	BACKUP

Online Backup Activated



•

The automatic backup is executed in the background 30 seconds after any modification is made to the data source content.

6.2.4.2 Restore

# DESCRIPTION

Before being able to restore a backup, you **MUST** create an empty data source and define the backup name before being able to use it. You need to create a new SQLite, XML, Online Drive or Microsoft Access data source in *File – Data Sources*.

At some point, you may need to restore a backup of your <u>Devolutions Online Drive</u>, <u>SQLite</u>, <u>XML</u> or Microsoft Access data sources. The restore option is accessible from the menu *File – Backup – Restore*.

### SETTINGS

- 1. To restore a data source from a backup, select it as the current data source.
- 2. Click on *File Backup Restore.*

$\bigcirc$	Remote Desktop Manager [Dashboard]		
🏹 My Data Source Information	Online backup	Actions	
Devolutions Account	() Sign-out	Execute Backup	
ن Backup	View Subscription	P View History	
S Refresh		Restore	
😂 Data Sources			

Backup Restore

3. Select the backup that you wish to restore from the list and click on Select.

	Remote Desktop Manager - Devolutions Online Backup × Devolutions Online Backup						
ID ^	Date	Username	Machine Name	Note	Entry Count	Item Count	Mode
00001	6/17/2019 1:52 PM	jpcharest	DEVOLUTIONS 120		11	12	Manual
						Select	Cancel

Select your Backup

4. The Online Backup wizard will display a brief description of the backup. Click on **Next.** 

Remote Desktop	Remote Desktop Manager - Devolutions Online Backup —						×	
🕙 Devolu	Devolutions Online Backup							
Restore source								
ID	00001							
Date	6/17/2019 1:52 PM							
Username	jpcharest							
Machine name	DEVOLUTIONS 120							
Entry count	11							
Item count	12							
Mode	Mode Manual							
Note								
	Previous	Next		Finish		Cancel		

Backup Wizard

5. Select the restore destination. It is not necessary to select the option **Perform a backup data source before restoring the selected backup** since it is empty.

🔲 Remote Desktop Manag	jer - Devolutions O	nline Backup		-		×
🕙 Devolution	ns Online E	Backup				
Restore destination						
Current data source     Perform a data source     Add a new data source		toring the selected				
Name						
File with encryption						
Master key				00		
	Previous	Next	Finish		Cancel	

Restore Destination

6. Click on **Finish** to perform your backup restore.

#### 6.2.5 Refresh

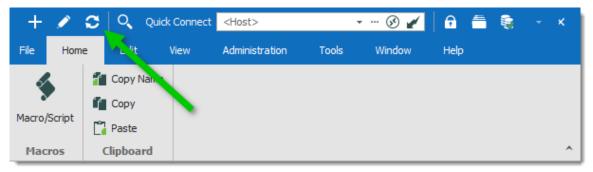
### DESCRIPTION

Refreshing the data source allows for updating its content. Data sources are usually refreshed automatically after a set period of time.

To refresh the data source, use *File – Refresh*. Do a refresh to make sure that the data source is up to date.

#### SIMPLE REFRESH

A simple refresh updates the data source to retrieve only the modified content. Use the above-mentioned *File – Refresh* or the refresh S button in the Quick Access Toolbar.



Refresh the Data Source

#### LOCAL CACHE REFRESH

A refresh of the local cache resets the local cache of the data source. All the content is retrieved from the database and the local cache file is recreated. Click the refresh S button while holding the **Ctrl key** or use the **Ctrl+F5** key combination. A local cache refresh may also help when experiencing <u>Cache</u> issues.

#### 6.2.6 Change Master Key

### DESCRIPTION

Use File – Change Master Key to encrypt the data source.

The master key prevents unauthorized users to access the data source without knowing the master key. It is highly recommended to apply a master key to the data source if you're using Remote Desktop Manager in a portable environment (i.e. USB Flash Drive, USB Hard Drive).

A master key can be used with the following data sources:

- Devolutions Online Drive
- Dropbox
- FTP
- Google Drive
- WebDAV
- XML



Since version 14.0.4.0, the user is automatically prompted to add a master key when connecting to one of the above mentioned data sources for the first time. The master key is completely optional (yet highly recommended).

$\Theta$			
Data Source Information			
Devolutions Account			
Backup			
Refresh	📑 Remote De	sktop Manager - Data Source Master Key	×
Data Sources	🔒 Dat	ta Source Master Key	
Background Services			
My Account Settings	Master key Re-enter	••••••	<b>⊘</b> (€)
nange Master Key		Perfect	
nport		We won't be able to recover your data if you lose your makey. Please ensure that you remember or backup your makey in a safe place.	
xport		Click here for more information	
mplates	× No Ma	sster Key Save	Cancel
Options			

Change Master Key

#### 6.2.7 Data Sources

## DESCRIPTION

Use *File – Data Sources* to manage data sources. Remote Desktop Manager supports multiple types of data source. Most are available only with an Enterprise Edition of Remote Desktop Manager.

Please refer to the <u>Data Source Types</u> topic for more information on all supported types of data sources.

	e Desktop Mai			×		
General		/PN Advanced				
F	lame ilename Iaster key	Devolutions Online Drive         Always ask password         connections.dod         Always ask master key	Create a Free Account Test Connection			
Туре	Name			Locked		
8	SQL Serv - UR	leg				
2						
8	P QA-LEX Duo					
8						
0/						
K	Devolutions C	nline Drive				
n start up	Last use	d data source 👻	ОК	Cancel		

Data Sources

## SETTINGS

### ADD A NEW DATA SOURCE

Use the **Add** button + to create a data source configuration.

### EDIT/DUPLICATE/DELETE DATA SOURCE

Use the  $\swarrow$  –  $\frac{1}{2}$  –  $\times$  buttons to respectively edit, duplicate or delete the selected data source configuration.



Only the configuration will be deleted but the actual file or database will still be available.

## **IMPORT/EXPORT DATA SOURCE CONFIGURATION**

Use the Selected data source configuration. The configuration is exported as a **.RDD** file.

## LOCK DATA SOURCE

Use the **lock** button **1** to lock the data source with a password to prevent any modification to a data source configuration. This is useful when having sensitive credentials that you wish to protect from other users.

## UNLOCK DATA SOURCE

Use the **unlock** button **i** to unlock a data source locked with a password.

### **ON START UP**

Choose which data source to connect to when the application starts.

Use default data source	Set the data source that you always want to open at start up.
Last used data source	Open with the last used data source.

Prompt for data source	A message box will open on startup for the data source selection.

6.2.8 Background Services

# **SYNCHRONIZERS**

Synchronizers centralizes all your synchronizers entry in one place.

When experiencing a performance degradation with Remote Desktop Manager you will be able to verify if a synchronizer is running in the background causing the system to slow down.

Synchronizers	Is Online						
Synchronizers	;						
0	4	₹	✓ Enable the execution of synchronizer	s			
Refresh	Enable	Disable	Name	Folder	Connection Type	Automatic Sync	Last Synchronization
			Active Directory	Enterprise\Synchronizer	ActiveDirectory		
2							
Synchronize							
			Execute automatic synchronize every				
			10 🗘	minutes			

Synchronizers

# **IS ONLINE**

Is Online allows you to verify and change the settings of your server's online availability.

Synchronizers	Is Online	
ls online		
C	0	Enable check for server availability Execute automatic check every
Refresh	Cancel	10 <sup>+</sup>
		Check is online Off 👻
		Online detection Ping -

Is Online

Enable check for server availability	Server is ping to determine if they are available. Server will be displayed in "red" in the tree view if not available.
Execute automatic check every	Execute the online check automatically each determined amount of minutes.
Check is online	If the option is <b>On</b> the application will verify if the server is online.
Online detection	If <b>Check is online</b> option is enable, select the detection method between:
	• Ping
	Port scan

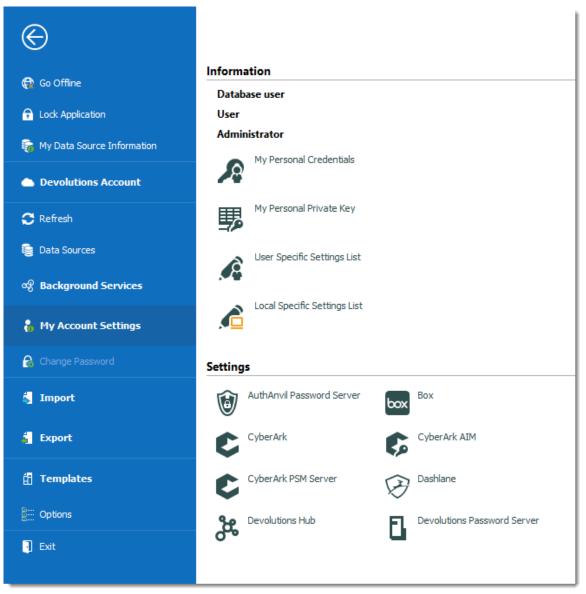
#### 6.2.9 My Account Settings

# DESCRIPTION

Use *File – My Account Settings* to configure accounts that connect to different web platforms. Set up account settings one time and use it in entries as many time as

required. This section also allows to manage **Personal Credentials**, **Personal Private Key** and **Specific Settings** lists.

# SETTINGS



My Account Settings

### INFORMATION

Database user	Indicates the current user connected to the application.
User	Indicates the user of the current Windows session.
Administrator	Indicates if the current user is administrator or not.
My Personal Credentials	Please consult My Personal Credentials topic for more information.
My Personal Private Key	Configure a personal private key for further use in sessions.
User Specific Settings List	Provide a list of all the <u>User Specific Settings</u> configured in Remote Desktop Manager.
Local Specific Settings list	Provide a list of all the <u>Local Specific Settings</u> configured in Remote Desktop Manager.

### SETTINGS

We support a specifics settings for a variety of Credentials, explore to your heart's content!

#### 6.2.9.1 My Personal Credentials

# DESCRIPTION

The **My Personal Credentials** feature is a single credential entry which is locally stored on your computer in your Windows profile.

It is typically used to hold the Windows credentials for your running sessions because Remote Desktop Manager can't access them. If you can't use integrated security then you must store your credentials in **My Personal Credentials**. This allows you to centralize one special credential to replace or emulate the ones for your Windows session. When a password change is needed you simply need to change it once in **My Personal Credentials**.

If you want to change the credential type, go in %LOCALAPPDATA% (Default) or %APPDATA% (Remote Desktop Services) \Devolutions\RemoteDesktopManager and delete the Credentials.rdt file to reset it.

🔲 Remote Desktop Manager - My	y personal cr	edentials [Default]					×
🔊 My Personal C	redenti	als					
General Template Settings More Password Management Security Settings Information Logs Advanced	General	Username Domain Password	Always ask password	<b>Q</b>			
		Mnemonic password					
Secret Server							
Sticky Password							
C TeamPass							
🔅 🔿 <u>True Key</u>							
P ● Username / Password ↓							
	Search prope	erty	n		ОК	Can	cel

My Personal Credentials

My Personal Credentials can be selected in your entries under Credentials.

🗨 Remote Desktop Manager [Default]							
Remote Desktop Manager [Defaul General More Permissions Password Management Security Settings Session Recording VPN/SSH/Gateway User Interface Information Jump Host Events Sub Connections Logs Management Tools Advanced	Name Folder Display E Credentials C General Display E Host N	Inherited My personal credentials None Private vault search	perience Connection Ad				
The Variables	Search property	n l					

Credentials - My personal credentials

6.2.9.2 User Specific Settings List

## DESCRIPTION

The **User Specific Settings List** feature will provide all entries that are overridden with user Specific Settings.

	e Desktop Manager - User Spe Jser Specific Setti		-	• ×
Image	Name	Group		Edit
<b>\$</b>	LogMeIn RDPTest - Copy	Enterprise\Sessions\Remote Connections Enterprise\Sessions\Remote Connections		Delete Import Export
				Close



	DESCRIPTION					
Edit	Edit the selected User Specific Settings.					
Delete	Delete the selected User Specific Settings.					
Import	mport a list of user Specific Settings from a .rds file. As this file is encrypted using a mandatory password, you will have to provide the password to successfully import the content of the .rds file.					
Export	Export a list of user Specific Settings into a .rds file. A password is required to encrypt the .rds file.					

#### 6.2.10 Import

## DESCRIPTION

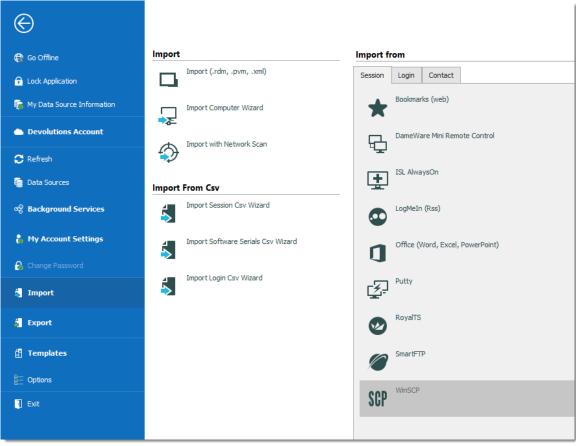
Use the *File – Import* to import entries in Remote Desktop Manager. You can import entry types from multiple sources.

We support native import formats from many popular tools on the market. In case we don't support the native format, or don't support the third party, we have wizards to import from a csv file.



The import feature is only active if the import Permission has been enabled inside the user account.

# SETTINGS



File - Import

## **IMPORT ENTRIES**

Import Entries is used to import sessions stored in files, such as:

- .rdm (Remote Desktop Manager native export format)
- .pvm (Password Vault Manager native export format)
- .xml (it must be a specific format compatible with the application)

#### IMPORT COMPUTER WIZARD

The Import Computer Wizard is only available in the Enterprise edition.

You can import computers from different sources. These sources includes:

- Network neighborhood
- Your current domain or another domain on your network
- List of computers from a file

Please refer to Import Computer Wizard for more information.

#### **IMPORT WITH NETWORK SCAN**

Consult Import with Network Scan to learn more about this option.

### **IMPORTING FROM CSV FILES**

Three wizards are available to import content from csv files:

- Import Session
- Import Software Serials
- Import Login

Each wizard specifies the list of supported columns and identifies which are mandatory.

#### **IMPORT FROM**

Consult topics below to import sessions, logins and contact from many tools:

Import Sessions

- Import Logins
- Import Contacts

#### 6.2.10.1 Import Computer Wizard

# DESCRIPTION



This feature is only available when using an Advanced Data Source.

The **Import Computer Wizard** allows you to create sessions for computers using one of the following sources:

- Network neighborhood
- Active directory: your current domain or another domain on your network
- Host list: List of computers from a file

## **OVERVIEW**

The wizard has a few major-steps:

- 1. select computers by using one of the three sources;
- 2. optionally apply a template from which to base new sessions on; and
- 3. optionally edit each newly created session prior to them being saved.

The template selection should not be overlooked, in fact it is probably the most important step to ensure your newly created sessions are usable right after being created. You should divide the sessions in batches based on which template you need to apply and import one batch at a time.

## WORKFLOW

Upon launching the wizard, you are prompted for the source to use.

The **Resolve IP address** option must be checked if you want to use the IP address in the host field of your sessions instead of the host name.

Remote Desktop Manager - Import Session Wizard		×	
Import Session Wizard			
Import sessions from:			
Network neighborhood			
Active Directory			
O Host list			
Resolve IP address			
Previous Next Fin	nish	Cance	el

Import Session Wizard

Refer to the sections below depending on the chosen source.

# NETWORK NEIGHBORHOOD

The next screen will immediately be populated with the result of the network discovery.

[	Remote Desktop Ma	nager - Imp	ort Se	ssion Wizard		-		×
	Import S	Session	Wi	zard				
					<ul><li></li></ul>	Refr	esh	
	Computer Name		IP		I	Existing Sessions	1	
								-11
L								
				Previous	Next	Finish	Cancel	

Import Session Wizard - Netwok Neighborhood

If you prefer your sessions to use the IP address instead of the Host name to connect to the devices, check the "**select by IP address**" option. This requires that the "Resolve by IP address" was selected in the first screen of the wizard. Select the computers for which you want to create session and proceed to **Template Selection** below. Multi-select is allowed by using CTRL-click and SHIFT-click.

Remote Desktop Manager - Import Session Wizard	-		×
Import Session Wizard			
Blank			
O Selected template			
Edit imported entry			
Tip: use \$HOST\$ in the template. Ex: https://\$HOST\$/Admin			
Previous Next Fi	inish	Can	cel

Import Session Wizard - Template

## ACTIVE DIRECTORY

The following screen allows you to select the domain to interrogate after which you must press refresh to load the list of computers that are available.

Remote Desktop Ma	-		×	
👗 Import S	ession Wizard			
Domain				
Destination folder				
Other filter	0			
Preview	(objectClass=Computer)			
	~			
	Import description			
Create folders from O	U/containers			
Level	0 🗘 0 is the top container			
	Previous Next Fi	inish	Canc	el

Import Session Wizard - Active Directory

After the query is executed the results are displayed in the grid.

🔲 Remote Desktop M	anager - I	mport S	ession Wizard						×
👗 Import	Sessio	on W	izard						
Domain					C	ļ	Refr	esh	
Computer Name		IP			Existi	ing Sess	ions		^
DEV									
DEV									
DEV									
DEV									
DEV									
DEV									
DEV									
DEV									
DEV									~
			Previous	Nex	t	Fini	ish	Car	icel

Import Session Wizard - Domain list

If you prefer your sessions to use the IP address instead of the Host name to connect to the devices, check the "select by IP address" option. This requires that the "Resolve by IP address" was selected in the first screen of the wizard. Select the computers for which you want to create session and proceed to Template Selection below. Multi-select is allowed by using CTRL-click and SHIFT-click.

### **HOST LIST**

The following screen allows you to enter a list of hosts in an Edit control. If you prefer that your sessions use the IP address to connect to the hosts, you must enter the host name, a pipe, then the IP address.

Remote Desktop Manager - Import Session Wizard	-		×			
Import Session Wizard						
Enter the host separated by a new line						
			<u>۸</u>			
4		Þ	~			
Use the char   to specify another name and a host: MyName 192.168.0.1						
Previous Next Fi	nish	Canc	el			

Import Session Wizard - Host List

Proceed to Template Selection below.

## TEMPLATE SELECTION

The template selection is an optional step, but its the only way that you have to choose a protocol type other then RDP. It also allows you to set your preferences and have them used by all the created sessions. In fact we recommend you to import in batches for each of the session type that you need to import.

If you intend to modify each of your imported sessions as they are created, check the **Edit imported entry** option. Note that each session will be displayed sequentially so you can perform your modification and save. A <u>Batch Edit</u> is probably preferable if you have more then a few sessions to import.

#### 6.2.10.2 Import Session CSV Wizard

## DESCRIPTION

This version of the wizard has been greatly enhanced to support not only all entries general fields but also sub-fields. This gives you access to all properties, even for types provided by add-ons, therefore unknown by Remote Desktop Manager.



#### SETTINGS

Once you've selected the CSV file to process you will be presented with the template selection screen.

If you have selected a template as suggested, you will see a list of templates available to your system.

Remote Desktop Manager - Import Csv Wizard –				
S Import Csv Wizard				
Blank				
Selected template     Database Local				
Name		<u>=</u>		
Edit imported entry				
Previous Next F	inish	Cancel		

Import Csv Wizard

If you wish to review each and every session as they are imported you can check the **Edit imported entry**, but it is not really recommended for a large number of sessions.

Press finish and the import will proceed using your chosen settings.

6.2.10.2.1 Import Strategies and file format

## DESCRIPTION

The most important decision is about **if** and **how** to apply a template as part of the process.

Both methods of importing from CSV allows you to choose a template for newly created entries. If you do choose a template as part of the process, it will be apply to **ALL** entries created from that batch. Sometimes, it may be a good strategy to split the entries in different CSV files by grouping them by type of entries you wish to create.

If you need finer control, you can specify the template to use in a **Template** column of the CSV file. But since you're able to specify the entry type from within the CSV file it may not be necessary. Please consult <u>CSV Samples</u> below.

## COLUMNS

Some validations on entry settings are not in the business layer but rather in the property dialogs. This means that using the import process can result in invalid entries that trigger errors. Please validate the resulting entries carefully.

In the CSV file, only the **Host** field is mandatory. If no template is specified, the RDP type will be used as a fallback type.

We cannot provide the list of all supported fields for all entry types because Remote Desktop Manager uses an open architecture and therefore is not even aware of all the fields of entry types that are provided by our Add-On system. A good method of finding out the field structure is to create an entry of the desired type and to use **Clipboard** – **Copy**, then paste the content in your favorite editor. You will see the structure and the field names.



Default values for fields are **NOT** serialized. This means that they are simply left out of the serialized structure.

Implementing support for all fields comes at a cost. The import process is time consuming because of all the dynamic field access that takes place. A massive initial import of entries should be separated in batches of manageable size. Please perform trials and tune the number of entries to achieve acceptable performance.

All of our entries share a basic set of fields, the rest are tied to the specific technology being interfaced with (RDP, SSH, etc). Some fields are grouped in structures like the Information Tab for instance. This means that those fields are accessible only when providing the structure name as a prefix, for example: "MetaInformation\OS" or "MetaInformation\PurchaseDate"



Note that the content of the CSV file can contain our variables and they will be resolved upon saving. For instance you could use the **\$HOST\$** variable in fields like **Description**, **URL**, **Putty\CustomSessionName**, etc. It will be replaced by the corresponding value.

Here is a list of some relevant fields.

	DESCRIPTION
Host	Host name of the device, <b>this is the only mandatory field</b> .
Name	Name of the entry
ConnectionType	Token representing the connection type. It is best to use the <b>Clipboard-Copy</b> method to obtain the acceptable values.
Group	Destination folder. Note that if the import process itself had a Destination Folder defined as well, the folder listed here would be created below the one from the process.
Description	Description of the entry.
Open (Embedded)	Boolean value ( <b>true</b> or <b>false</b> ) that indicates to open the session embedded. The default value is false, meaning that

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	the native client will be used depending on the technology. MSTSC.EXE for instance.
Username	Username used to open a session to the device.
Domain	Domain used to open a session to the device.
Password	Password used to open a session to the device. Please note that this field is encrypted and stored into another field upon being imported.
MetaInformation\S erialNumber	Serial Number of the device.
MetaInformation\S erviceTag	Service Tag of the device
MetaInformation\P urchaseDate	Purchase date in a ISO8601 format, i.e. yyyy-mm-dd

## **CSV SAMPLES**

### WITH SPECIFIED SESSION TYPES

Host, Name, Template, ConnectionType, ConnectionSubType, SubMode, Group, Username, Domain, Pas. 192.168.10.001, one, Microsoft Remote Desktop (RDP),, QA Lab,,, Description001, http://online.remotedesktopmanager.com,two,, Web Browser (http/https),, QA Lab,,, Description003, 192.168.10.003, three, LogMeIn,, QA Lab,,, Description003, 192.168.10.004, four,, "Telnet, SSH, RAW, rLogin",, 0, QA Lab,,,, "This is the Putty sub-t 192.168.10.005, five,, "Telnet, SSH, RAW, rLogin",, 1, QA Lab,,,, "This is the Telnex (Reb 192.168.10.006, six,, "Telnet, SSH, RAW, rLogin",, 2, QA Lab,,,, "This is the SSH Shell (Re 192.168.10.007, seven,, "Telnet, SSH, RAW, rLogin",, 3, QA Lab,,,, "This is the SSH (Rebex 192.168.10.008, eight,, VNC,,, QA Lab,,,, Description008, 192.168.10.009, nine,, Citrix,,, QA Lab,,,, Description009,

#### 6.2.10.3 Import Network Scan

#### DESCRIPTION

The **Import from Network** allows you to perform a network scan based on a predefine range of IP address to find sessions to import.

Once the scan is completed select the sessions you wish to import (by default every session will be selected) and click on **OK** to import those sessions in your data source.

If you wish to review each and every session as they are imported you can check the **Edit imported entry**, however we do not recommend this for large number of sessions.

🔲 Remote Desktop M	anager - Import from yo	our Network			- 🗆 X
<u>⊡</u> ∰_ Import	from your Net	twork			
From 127 0 To	0 1			► ⊗	Scan Stop
✓ Resolve IP address		✓ Ping before scan			
Name	Host	Group	Туре	Exis	ting Sessions
Select New	Select All	Unselect All	🖍 Edit	🖉 Edit Se	elected Groups
Edit imported entry					OK Cancel

Import from your Network

#### 6.2.10.4 Import Sessions

## DESCRIPTION

Use the *File – Import – Import from – Session* to import sessions from other software into Remote Desktop Manager.



The import feature is only active if the import Permission has been enable inside the user account.

# SETTINGS

Session	Login Contact				
*	Bookmarks (web)	₽.	Boztech VNCScan	*	CoRD
Ð	DameWare Mini Remote Control	Fz	Filezilla	Ð	Firefox
Ŧ	ISL AlwaysOn	₽	KeePass (.xml)	₽	KeePass (link)
•	LogMeIn (Rss)	1	Microsoft Azure	>57	MobaXterm
٦	Office (Word, Excel, PowerPoint)	•••	Other (Custom) (.csv)	÷	PortForward (.csv)
Z	Putty	\$	RDP Configuration (.rdp)		RDTabs
2	RoyalTS	F)	SAP GUI (saplogon.ini)	$\odot$	SecureCRT
	SmartFTP	>_	SuperPutty (.xml)	C	TeamViewer Manager
SCP	WinSCP	mR	mRemote	e م	visionApp Remote Desktop (.vrd, .vre, .vrb, .rde, .csv)

Import from Session

## **IMPORT FROM SESSION**

You can import your sessions from an existing application or an existing file format. Some application encrypt the data but it must be in plain text to allow the application to parse the content. Please note that all entries will be imported in the current folder. For some applications it's not possible to extract the password.

We support a Multitude of Sessions, explore to your heart's content!

#### 6.2.10.5 Import Logins

### DESCRIPTION

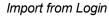
Use the *File – Import – Import from – Login* to import different logins or credentials from other software into Remote Desktop Manager.



The import feature is only active if the import Permission has been enable inside the user account.

### SETTINGS

Session	Login	Contact				
0	1Passwo	rd (.csv)		Aurora Password Manager/AES Password Manager (.csv)	$\widehat{\mathcal{G}}$	Dashlane (.csv)
¢	DataVau	lt (.csv)	•	EnPass	9	Google Chrome
	KeePass	(.csv)	•••	LastPass (.csv)	Ĺ	Passpack (.xml)
2	Passwor	d Agent (.xml)	<b>(</b> )	Password Depot (.csv)	0	Password Safe (.csv)
E.	Passwor	d Safe (.psafe3)	••	RoboForm v7 (html passcard)	•••	RoboForm v8 (CSV)
8	SplashID	) (.csv)	6	Sticky Passwords		



### **IMPORT FROM LOGIN**

You can import the credentials from a wide array of formats exported by various password management solutions. The export content must not be encrypted in order to parse the content. Please note that all the entries will be imported in the current folder. We support a multitude of Login imports, explore to your heart's content!

#### 6.2.10.6 Import Contacts

### DESCRIPTION

Use the *File – Import – Import from – Contact* to import contacts from other software into Remote Desktop Manager.



The import feature is only active if the import Permission has been enable inside the user account.

## SETTINGS

Session	Login	Contact	
0	Outlook		
VS	Real VNC	:	
<u>*</u> =	VCard		

Import Contact menu

### IMPORT FROM CONTACT

It's now possible to import the contact from different sources:

- Microsoft Outlook
- Real VNC
- VCard

Please note the all the entries will be imported in the current folder.



Microsoft Outlook contacts sub-folders are also supported.

6.2.11 Export

## DESCRIPTION

Use the *File – Export* to export entries from Remote Desktop Manager. Below is a list of export options:

- Export All Entries (.rdm).
- Export All Host List (.csv).
- Export All Entries (.csv).
- Export All Entries (.html).
- Export All Entries (.xml) (It's exactly the same content as a .rdm file but with the XML extension).

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If you have used **Document** entries in the **Stored in database** mode, or used **attachments**, the binary content of the documents is NOT exported in any of our export formats. These documents/attachments MUST be handled manually.



The export feature is only active if the import Permission has been enabled inside the user account.



The only appropriate format to import the entries back into Remote Desktop Manager is the .rdm format.

# SETTINGS

$\odot$		-
😭 Go Offline	Export	Export Special
Cock Application	Export All (.rdm)	Export All (.csv)
🙀 My Data Source Information		Export All (.html)
Devolutions Account		Export All (.xml)
🗲 Refresh		Export All Documents
😂 Data Sources		
ංලී Background Services		
ᡖ My Account Settings		
🔒 Change Password		
🛃 Import		
🗧 Export		
🗄 Templates		
E Options		
Exit		

File - Export

When using an <u>Advanced Data Source</u>, export capabilities can be disabled via security policies at the data source level (no one can export) or at a user level (particular users can't export). See Security Group Management for more information.

## **EXPORT ALL ENTRIES (.RDM)**

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Export all entries in a .rdm file that can be imported into any Remote Desktop Manager data source. You can also include credentials in this export format and secure your file with a master key.

By default the credentials are NOT included. It's critical to check the **Credentials** option in order for the exported data to include the credentials.

Specifying a master key will encrypt the whole content of the .rdm file to protect its content. It is highly recommended as a backup measure, but the key is absolutely necessary for decryption. Preserve this as well in a separate storage device for safekeeping.

Remote Desktop Manager - Export Entries		×
Export Entries		
Remove all folders       Include security groups         Include credentials       Encrypt with master key		
	ОК	Cancel

Export entries in .rdm

### EXPORT ALL HOST LIST (.CSV)

Export a simple host list in .csv format. You will be prompted to see if you wish the export to be slightly more detailed and include the following information: Host, Description, Display Name, Group, Security Group.

### **EXPORT ALL ENTRIES (.CSV)**

Export all entries using the .csv format file. For security reasons the .csv file will be contained within a password encrypted zip file. This type of security can be hacked using brute force attacks, it should be used only when the zip file is under your exclusive control.

Please note that the csv columns will vary depending on entry types being exported. This makes it the wrong format if ever you want to import the data back in Remote Desktop Manager. Use this only to migrate to another system.

### **EXPORT ALL ENTRIES (.HTML)**

Export all entries within a AES-256 to encrypt self contained html file. See Export Html Encrypted topic for more information.

### **EXPORT ALL ENTRIES (.XML)**

Because it brought confusion to our user base, this export format has been converted to perform the exact same export as the "Export all entries" but sets the file extension to .xml instead.

## **EXPORT ALL DOCUMENTS**

🔲 Remote Deskto	p Manager - Export Documents		×
👗 Expor	t Documents		
Export path	Export attachments		
_	Export document entries	OK Cance	4

Export Documents

Export all attachments or all document entries that are linked to your data source.

#### 6.2.11.1 Encrypted Html

### DESCRIPTION

The Html Encrypted export format was designed for simple and secure exports of entries. It allows for an html export of the entry information while using symmetric encryption (AES-256) to encrypt sensitive information such as passwords. The file is an ultra portable self contained html file that requires no external script files or installs. As long as you have a web browser with JavaScript enabled you can get to your encrypted data.



With a secure encrypted document you can freely send the information via email or any other protocol without compromising the sensitive data. Use the export as means of sharing or as a backup for sensitive information.

### SETTINGS

Select the entries to export or export all entries. *Right-click* and select *Export* – *Export Special* – *Export All Entries (.html)* or use *File* – *Export* – *Export All Entries (.html)*. You will be prompted for a password for the symmetric encryption key. Select the file name for the new document. Once the export is completed the file will open in your default browser.



Ensure you do not forget the password as you will not be able to decrypt the data without it.

When exporting multiple entries that are all contained within the same file, at decrypt time, each encrypted value must be decrypted individually for security reasons. Once you're done with the sensitive data simply hit **F5** to refresh the file or simply close it. Your data is now safe from prying eyes.

#### **AES-256**

We use AES-256 to encrypt/decrypt your sensitive data. Since the decryption is done entirely in the browser, there's no need for external tools, downloads or installs.

Commands	337
----------	-----



Encrypted Value

## SAFE & SMART VIRTUAL BACKUP

In addition, HTML Export using symmetric encryption is a great way to securely backup your passwords and other sensitive information. It allows you to share information via email or simply send the file to your personal email account as a backup.

#### 6.2.12 Templates

# DESCRIPTION

Templates are useful to have predefined values when creating an entry. Use templates to:

- Add preconfigured entries
- Use with the Quick connect feature
- Open entries as a template
- <u>Create an import wizard</u>
- Create password templates

To access and manage templates, navigate to *File – Templates*.

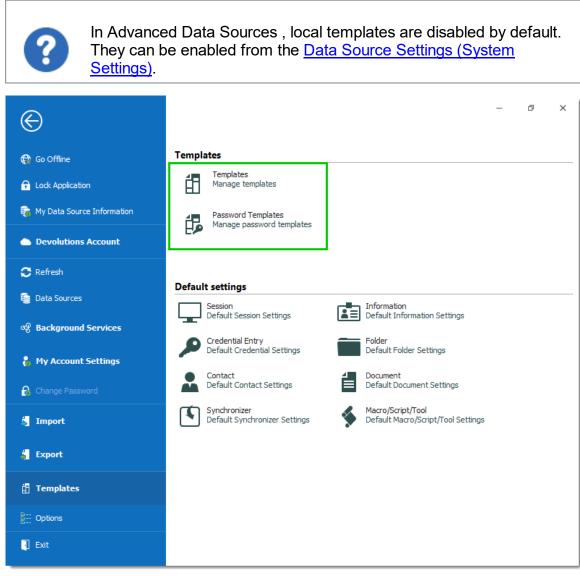
It's possible to create local and database templates.

- Local templates are saved in the Remote Desktop Manager configuration file. They are available only to the current user of the machine.
- Database templates are saved in the database. They are available to all users of the data source.

This allows for creating predefined templates available to use with the quick connect feature or when creating or importing a entries.



By default, standard users cannot create or manage templates. To allow users to create or manage templates, the permission must be granted to users using the **Management** section of the <u>Data source permissions (System Permissions)</u>.



File – Templates

## **AVAILABILITY**

When creating a template, its availability can be specified in the properties.

🔲 Remote Desktop Manager [Default			×
General Template Settings More Permissions Password Management Security Settings Session Recording VPN/SSH/Gateway User Interface Information Jump Host Events Sub Connections Logs Management Tools Advanced RDP (Microsoft Remote Desktop) Configured	Template Settings Template folder Available in Add Entry Available in Host entry Available in Macro/Script/Tool Available in Quick Connect		
Variables	Search property OK	Cano	:el

*Template properties – Template Settings* 

# USAGE

Templates can be used in the following cases:

## **CREATE A NEW ENTRY**

By default, when creating an entry of a type that has templates configured for, the user is prompted for a template to use. This behavior can be modified in the <u>Data Source</u> <u>Settings (System Settings)</u>.

🔲 Remote	Desktop Manager - Select template		—		×
É s	elect template				
Search	<search></search>				
Database					
Name					<u>=</u>
🐼 Blan					
S RDP	Template				
Seco	nd Template				
		O	<	Car	ncel

Select a template

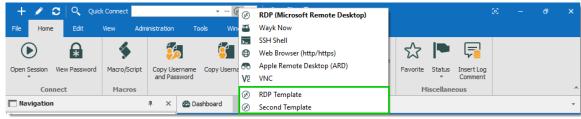
The template can be selected before creating the entry as well. Simply use the **Template** section of the **Add New Entry** window.

🖳 Remote Desktop Manager - Add New Entry			
+ Add New Entry			
General Session Contact Contact Credential Entry Document Folder Synchronizer VPN Macro/Script/Tool Miscellaneous Template	<search> RDP Template Second Template</search>		
Add-On Manager		OK Cancel	

Add New Entry – Template

# **RUN A QUICK CONNECT SESSION**

Templates can be used with the **Quick Connect** feature. For example, the same template can be used to connect to different hosts.



Quick Connect

### **IMPORT WIZARD**

The import session wizard uses a template for the imported sessions.

Remote Desktop Manager - Import Csv Wizard	I				×
💺 Import Csv Wizard					
Blank					
Selected template     Database Local					
Name					<u>=</u>
③ RDP Template					
Second Template					
Edit imported entry					
	Previous	Next	Finish	Cano	el

Import Session Csv Wizard

#### 6.2.12.1 Creating Templates

#### DESCRIPTION

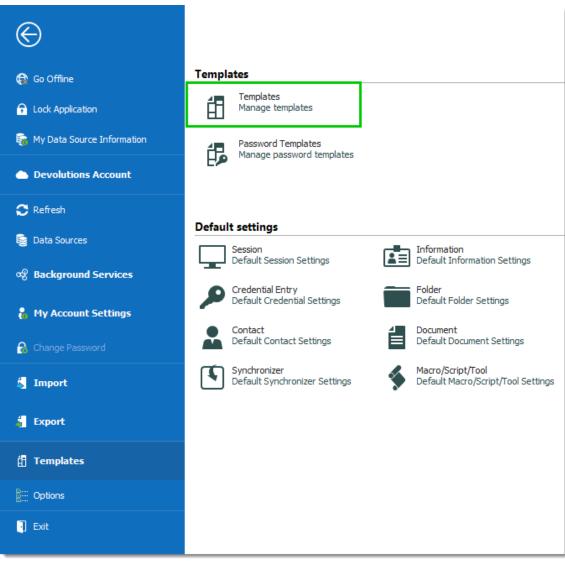
There are many ways to create template for entries. You can create a new template, save an entry as a template, import entries as templates, and duplicate a existing template. It is also possible to create group templates.

In this topic:

- <u>New Template</u>
- Save as Template
- Import Template
- Duplicate Template
- <u>Template Groups</u>

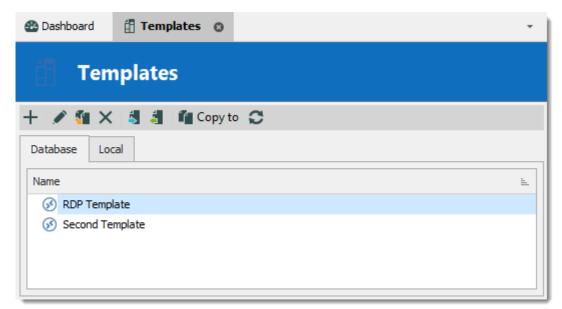
### **CREATE A NEW TEMPLATE**

1. Navigate to *File – Templates* and select Templates.



File – Templates

2. In the **Templates** window, click the **Add template** + button.



Add a new template

3. Select an entry to create the template for.

🔲 Remote Desktop Manager - Add New Entry	1			×
+ Add New Entry				
Session  Session  Contact  Contact  Credential Entry  Document  Folder  Synchronizer  VPN Macro/Script/Tool Miscellaneous	General         Solution         Apple Remote Desktop (ARD)         Apple Remote Desktop (ARD)         Host         SSH Shell         Wayk Now         Remote Connections         Web Browser (http/https)         Citrix (Web)         Microsoft RDP Gateway	VC VNC TeamViewer SSH Port Forward SSH Port Forward Telnet Citrix ICA/HDX X Window		< >
Add-On Manager			OK Cance	4

Select an entry to create the template for

4. Enter a name for the template, and configure the properties as necessary.

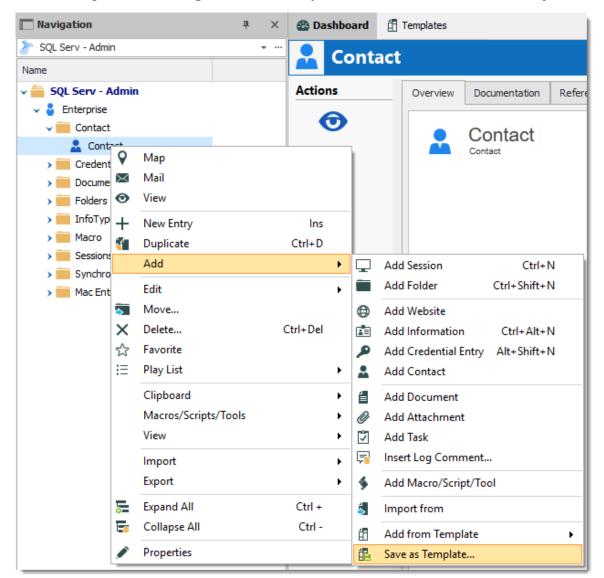
Template Name	Default template			$\mathbf{S}$
Folder			■ Off	
Display	Embedded (tabbed)	*		
Credentials	Default	•		

Template Properties

# SAVE ENTRY AS TEMPLATE

It is possible to save entries as templates to use their properties in other entries. Furthermore, this can be achieve on folders to include all their child items in the template.

From the Navigation Pane, right-click an entry and select Add - Save as Template...



Save as Template...

## **IMPORT TEMPLATE**

It is possible to import previously exported entries as templates.

1. Navigate to *File – Templates*, and select **Templates**.

### 1.1. From the **Templates** window, click on the **Import template** 🛃 button.

Templates	
+ 🖉 🕼 🗙 🖏 🧌 Copy to 💭	
Database Local	
Name	<u>=</u>
RDP Template	
Second Template	

Import Template

2. Select the \*.rdm file to import to create a template for each entry in the file.

# DUPLICATE TEMPLATE

It is possible to duplicate a template to edit a copy of the properties.

Navigate to *File – Templates*, and select **Templates**. From the **Templates** window, click on the **Duplicate template** subtron.

Change the template name to distinguish the copy from the original, and edit the properties to meet your requirements.

# **TEMPLATE GROUPS**

It is possible to save a set of selected entries or a folder and all its child items to a unique template.

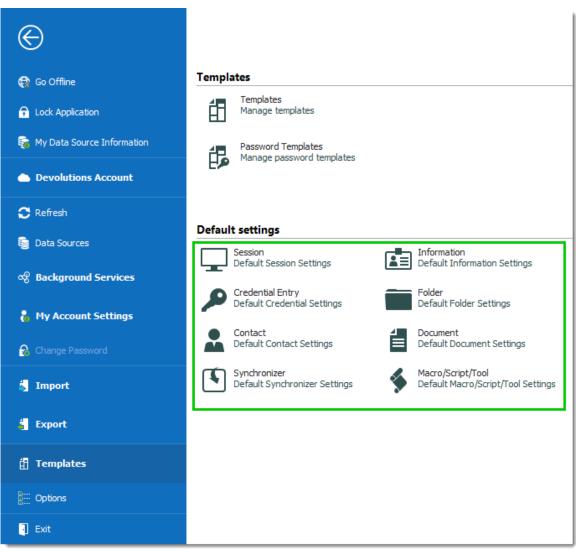
Right-click a selection of entries or a folder, select Add, then Save as Template...

#### 6.2.12.2 Default Settings

## DESCRIPTION

Default Templates create default settings for new entries. Every entry type is supported and can have a default settings template defined.

- Session
- Information
- Credential Entry
- Folder
- Contact
- Document
- Synchronizer
- Macros/Scripts/Tools



File - Templates - Default settings

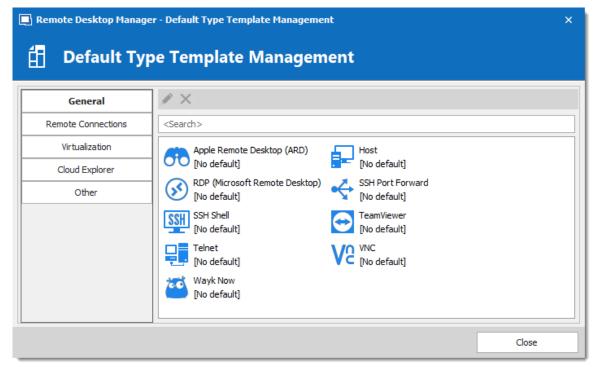
# SETTINGS

To help you locate the entry type you want to customize, all entry types are organized by category.

Select a category of entry from the *File – Templates* menu, then select the specific entry type to be edited.

Please note that a **[No default]** notice is displayed below each type that does not have a default template defined.

All entry types without the **[No default]** notice have a default template. You can doubleclick on the type to edit the template or press the edit  $\swarrow$  button. If you want to remove the default settings template, press the delete X button.



Default Type Template Management

#### 6.2.12.3 Password Templates

## DESCRIPTION

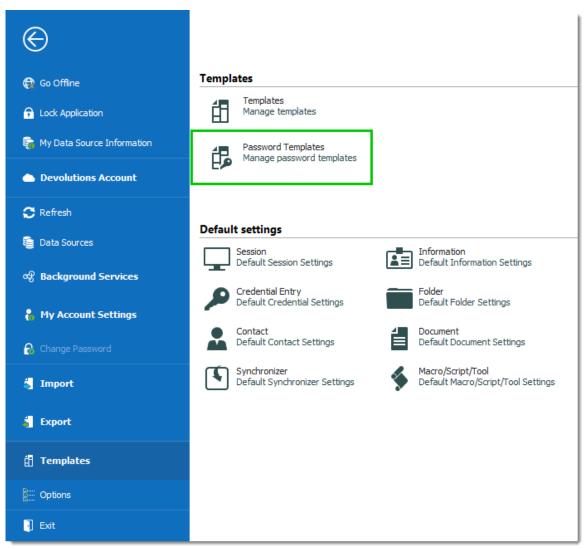
Password templates set requirements for the password format: characters usage, patterns, readability.

Password templates are available in the password generator. Password templates can be optional or required.

#### SETTINGS

#### CREATE A PASSWORD TEMPLATE

1. Go to File – Templates, and click Password Templates.



File – Templates – Password Templates

2. The **Password Templates** window provides an overview of current templates, as well as add, edit and delete commands.

🕸 Dashboard 🛱 Password Templates 🕲	Ŧ
B Password Templates	
+ ✓ × ♀ Database Local	
Name	Mode
Template One	Advanced settings
Template Three	Advanced settings
Template Two	Advanced settings

Password Template Window

- 3. To add a new template click Add (plus sign).
- 4. a) Enter a template name.
  - b) Choose a **Mode** and configure the settings.

Default	General settings about length and minimum amounts for characters and symbols.
Advanced settings	Granular character settings (e.g. special characters and symbols, inclusions, exclusions).
Readable password	Settings for syllables, numbers and symbols.
Use a pattern	Set a pattern for the passwords using the <u>key</u> .
Pronounceable password	Settings for length, case, digits and characters.

c) Choose specific settings

🔲 Remote Desktop Manager	r - Password Templates	×
🔁 Password T	emplates	
Name Cloud Service: Mode Advanced set		
Password length ✓ Upper-case (A, B, C,) ✓ Lower-case (a, b, c,) ✓ Digits (0, 1, 2,) ✓ Minus (-)	20 ↓       C         6 ↓       Underline (_)       0 ↓         9 ↓       Space ()       0 ↓         0 ↓       Space ()       0 ↓         0 ↓       Special (!, \$, %, &,)       0 ↓         0 ↓       Brackets ([, ], {, }, (, ), <, >)       0 ↓	0
Include the following characters Exclude the following characters:		
	ОК	Cancel

5. The password is now available in the **Password Generator** (Tools menu).

## USE A PASSWORD TEMPLATE WITH PASSWORD GENERATOR

1. On the **Tools** tab, click **Password Generator**. Or open the password generator from an entry (9).

2. To choose a password template, select the title from the list. **Default** is equivalent to no template, until it is configured by an administrator. When you select a template the options are unavailable because they were saved in the template.

3. Click **Generate** to list possible passwords.

🔲 Remote I	Desktop Manager - Password	Generator		×
Pa	assword Generato	<b>or</b>		
Template Mode	Template Three Advanced settings	- + X	2	
V Lower-c	ase (A, B, C,)     0       ase (a, b, c,)     0       0, 1, 2,)     0	Underline (_) Space () Special (!, \$, %, &, Brackets ([, ], {, }, (, >)	.) 0 ¢	NSI characters 0 🗍
	following characters			0
HG6tYyvk lo8eA2dB gDpy4nCp RnFs4sAg	3sqQt7HJ SxEbgK5S gqwwk1gt 7xmDlmlQ	IHXepNYd zXTcQShA BrkfonAj SnpHzMKt	djl6tlHa EsAmdw29 XSWelw18 jnOccnFM	Generate     Generate     Gopy to Clipboard
eQeoa09p J7nTnjzw	Vqs7m0XT Ig9RAQ0d	rxx5F26H kgbqkAj2 Very Strong	ah4biflv 01zwdOl7	~
HOTEL   GOLF	F   six   tango   YANKEE   yankee			▲ Count 30 ↓
Forbidden	Password			Close

Password Generator using a password template

#### SET A DEFAULT PASSWORD TEMPLATE

The default template in the **Password Generator** is set to "no template" until an administrator configures the template.

1. On Administration, click Data Source Settings (System Settings).

2. Click Password Templates.

3. Choose the template. The chosen template will now be the **Default** in Password Generator.

4. If you want to force one template, check **Force default template**. No other choices will be available in the password generator.

Remote Desktop Manager - :	5ystem Settings	×
🤤 System Settir	ngs	
<ul> <li>General</li> <li>Password Management</li> <li>Password Templates</li> <li>Forbidden Password</li> <li>Password Validation</li> <li>Custom User</li> <li>Applications</li> <li>Advanced</li> </ul>	General Default template Template Three	
View History	Search property 🛃 Version 2019.1.30.0 OK	Cancel

System Settings – Password Templates

## 6.2.13 Options

## DESCRIPTION

There are multiple options available to manage and customize your Remote Desktop Manager in the menu *File – Options*. Most of these options are related to changes to the local instance.

Use the **Search property** to find a specific option.

🔲 Remote Desktop Manager		×
✓ General	Connection	
Application Start		
Application Close	Connection details refresh delay	300 🗘 ms
Notification	Delay the initial connection	0 🗘 sec
Proxy (Web) Custom Variables		Use this option to delay the first connection to the data source if the computer is not hooked to the network at startup (thin dient)
> User Interface		
> Types	Open connection delay (after ping)	2000 ‡ ms
Reports	Allow multiple connections (Default)	False *
Browser Extensions	riter materic connectorio (percenty	T CIGC
Key Agent	ls online	
Security		
> Tools	Check if host is online	
Path	Execute automatic check every	10 🗘 minutes
Cloud > Advanced		
> Auvanceu	Check is online	Off 👻
	Online detection	Ping -
	Clipboard	
	Clear dipboard delay	10 ‡ sec
	Clipboard secure copy delay	100 🗘 ms
	Clipboard copy method	Legacy
	Credential copy options	All buttons 👻
	Recent	
	Recent (maximum items)	10 🗘 items
	Recent (naxinum tenis)	10 w Hems
_		
Import Options		
Export Options		
	Search property	OK Cancel

File - Options

Options you configure:

- **General:** Application Start (including update options), Application Close, Notification, Proxy (Web), Custom Variables
- User Interface
- Types: Settings for different types of entry, terminal, ssh keys, etc.
- Reports
- Browser Extensions: Settings for Devolutions Web Login
- Key Agent: Hold SSH Keys in memory already decoded and ready for them to be used. Fore more information see Key Agent Manager
- Security: Local application security only; You can set security for all users in the data source
- Tools
- **Path**: Customize installation paths for Remote Desktop Manager, logs, documents, templates and addons
- Cloud
- Advanced

- Import Options
- Export Options
- Search Option Property
- 6.2.13.1 Advanced

## DESCRIPTION

Use the *File – Options – Advanced* tab to control the application behavior as it pertains to low level settings.

🔲 Remote Desktop Manager			×
General     Application Start     Application Close     Notification     Proxy (Web)     Custom Variables     User Interface     Types     Reports     Browser Extensions     Key Agent     Security     Tools     Path     Cloud     V     Advanced     PowerShell	Advanced         Debug level       (1 * Logs       Database         Other Options <ul> <li>Add folder in hierarchy during batch add</li> <li>Allow multiple instances</li> <li>Allow moutiple instances</li> <li>Allow nou upgraded data source</li> <li>Always show 'Go Offine" button</li> <li>Automatically open file location after session recording</li> <li>Confirm on drag and drop move</li> <li>Connection constructor</li> <li>Lazy loaded</li> <li>Default - MCDF v2.0</li> <li>Force "localhost" when using VPN dynamic port</li> <li>False</li> <li>Confirm on multiple sessions open if open count greater than</li> <li>1 *</li> <li>Information</li> <li>Created on 4/15/2019</li> <li>Source: InstallDir</li> </ul>		
Import Options			
	Search property A	Cano	a

**Options - Advanced** 



ADVANCED

Debug level	Set the level of debugging information that Remote Desktop Manager will capture. This should only be modified upon request from a Devolutions support technician as it might cause your system to slow down .
Logs	<ul> <li>The logs can be saved in a file or in a database file. Select between:</li> <li>Both: Logs will be saved in a text file and in a database file.</li> <li>Database: Logs will be saved in a file named RemoteDesktopManager.log.db. The file is located in the installation folder of the application.</li> <li>File: Logs will be saved in a file named RemoteDesktopManager.log. The file is located in the installation folder of the application.</li> </ul>
Connection constructor	The connection constructor is used for memory optimization when using legacy. We strongly recommend to leave this option at Default. <b>Only change this option upon request from a Devolutions support technician.</b>
Offline engine	You can choose your Offline engine between the SQLite or OpenMCDF. <b>Only change this option upon request from a Devolutions support technician.</b>
Force "localhost" when using VPN dynamic port	Forces the use of "localhost" when using the VPN dynamic port.
Confirm on multiple session open if open count greater than	Select a target number where mass opening sessions will demand confirmation.

# **OTHER OPTIONS - CONNECTIONS**

	DESCRIPTION
Automatically open file location after session recording	After a session recording, it will open the destination folder where the file is saved.
Disable close all confirmation message	Disables the Close all confirmation message when closing/disconnecting multiple entries at the same time.
Disable document selector (CTRL + Tab)	When left enabled, it will allow to switch from multiple open tab connections.
Disable embedded 32 shell execute	Disable the shell embedded 32 execute in Windows for embedded sessions.
Disable logoff confirmation message	When pressing the logoff button in an embedded RDP session, Remote Desktop Manager, will disconnect the session without the logoff confirmation message.
Disable multi-thread loading	This setting allows Remote Desktop Manager to use multiple threads to load the data. Disabling this option will decrease the performance.
Disable multi-thread offline file	This setting allows Remote Desktop Manager to use multiple threads in offline file. Disabling this option will decrease the performance.
Disable RDP virtual channel	Turning off virtual channel disables some Remote Desktop Services features such as clipboard and printer redirection.
Enable advanced Logging for Telnet and SSH	This option creates an AdvancedTelnetSSH.log file in % LocalAppData%\Devolutions\RemoteDesktopManager.

	DESCRIPTION
(AdvancedTeInetSSH. log)	This file can be helpful when retrieving logs for Telnet/SSH connections.
Enable global event logging for Telnet and SSH (DevolutionsTerminal. log)	Enables global event logging for Telnet and SSH entries. It will create the file DevolutionsTerminal.log at the same place where the configuration file is located.
Enable global logging for Rebex terminals (AdvancedTelnetSSH. log)	Enables global event logging for Rebex terminals. It will create the file AdvancedTelnetSSH.log at the same place the configuration file is located.
Enable offline read/write locks	Activate locks for the Offline read/write rights.
Enable tags textbox in properties	By default, the Tags field, in the Properties of an entry, can only be filled through the tag selector. With this option, it lifts that restriction and you can write in the Tags text box directly.
Ensure that KeePass is running	Validate that KeePass is running on your computer before accessing any KeePass data.
Force refresh before edit entry	Perform a refresh of the entry before entering in edit mode. This is useful in a multi-user environment with a shared data sources. This ensure that you are editing the most recent version of the entry.
Force restore application with desktop shortcut	When double-clicking on the desktop shortcut it will restore the application that is already open. If the option is unchecked a second Remote Desktop Manager window will open.
Open shortcut session silent	Disable the command line warning message when using a shortcut.

	DESCRIPTION
Use connection loader optimization	Only enable this option upon request from our Support team.
Use DirectX rendering in VNC	By default this option is enabled to use DirectX rendering when available for VNC connection.
Use manual activate tab	Only switch to an entry tab manually. This disables the behavior where opening a connection will automatically select the new tab.
Use Microsoft Office instead of editors	When adding a new document by selecting a file supported by a Microsoft Office application (Word, Excel), it will make a Word/Excel document instead of a Rich Text Editor/Spreadsheet Editor entry.
Use NTFS Encryption for Offline mode	When using <u>Offline Mode</u> , a local file is created to hold a copy of the data source. If this is enabled the local file is encrypted using the built-in NTFS encryption of Windows. This setting may cause delays when accessing the data source because the local file is refreshed on every access.

# **OTHER OPTIONS - GENERAL**

Add folder in hierarchy during batch add	When doing a batch add of folders, depending on the option chosen, it will either create them all on the same level or make them a child of the previous folder.
Allow multiple instances	Allows more than one instance of Remote Desktop Manager to run concurrently. This is not a recommended practice.

	DESCRIPTION
Allow non upgraded data source	Allow Remote Desktop Manager to work on an older data source that has not being upgraded.
Confirm on drag and drop move	When session(s) are moved by drag and drop, a confirmation message will appear to confirm the move.
Disable form editor cache	Disables the form editor cache and force RDM to always fetch the information. It is not recommended to disable this feature for performance reasons.
Disable password pwned check	Disables the pwned check feature if it isn't forced by the administrator in the System Settings - Password Validation option.
Disable resilient database connection handling	Resilient Database connection handling is a mechanism we put in place to retry certain database connections in RDM to avoid certain errors. Some slowness can be expected when enabled.
Disable stack trace	Disable the stack trace details when an error occurs in Remote Desktop Manager. This is a security feature.
Disable telemetry	Disable the analysis of data or statistics. Telemetry is the equivalent of Google Analytics. Note that the statistics are anonymous.
Focus content on application	Set focus on the last embedded session when the application is activated.
Lock integrated security: validate only against domain context	The integrated security lock validates by default against the local machine and the domain context. You have the option to validate only against the domain.
No Internet connection	Disable the application to access the internet.

	DESCRIPTION
Show deprecated data source types	We don't support some data sources anymore, enabling this option will show them again.
Use application directory for local play list	Use the installation folder to save the local play list that has been created.
Use application directory for offline cache	Use the installation folder to save the offline cache file.
Use legacy login method	Can be used as a workaround if logging into Devolutions Account isn't working, but it is not recommended.

# **OTHER OPTIONS - UI OPTIONS**

	DESCRIPTION
Always show "Go Offline" button	Always display the "Go Offline" button in the status bar when <u>Offline Mode</u> is active.
Auto hide filter tree view	Changes if the filter tree view will be hidden automatically or not. This is relevant if you have the navigation pane unpinned and do a filter.
Disable custom images	Disable the loading of any custom images in the tree view. Too many custom images could dramatically increase the size of the data source and increase the load time at the same time.
Disable favicon cache	Disables the favicon cache and force RDM to always fetch the favicon from the web. It is not recommended to disable this feature for performance reasons.

Disable layout restoration	Disable manually configured tab layout and restore the layout settings on a RDM restart.
Disable user gravatar	Disable the fetching of the gravatar in the Administration - Users window to improve the application performance.
Expand all tree nodes on select credential entry	After creating a new credential entry, the tree nodes expands automatically.
Hide last opened play list in play list management	Hide the last opened play list at startup in the play list dialog.
Hide loading data sources progress bar	Will hide the loading data sources progress bar when loading.
Use old entry sort	Use the old entry sort from previous version of Remote Desktop Manager.
Use vault image in tree view	Use the vault image in the tree view's root.

## INFORMATION

Created on	Creation date of Remote Desktop Manager configuration folder.
Source	Source of Remote Desktop Manager configuration settings.

Path	Shortcut to access the configuration folder directly.

6.2.13.2 Import Options

# SETTINGS

Select the Configuration File to import in Remote Desktop Manager and click on Open.

# **REMOTE DESKTOP MANAGER OPTIONS FILE IMPORTER**

🔲 Remote	—		×	
👗 A	pplication Options File Importer			
<b></b>				
⊻ ⊻ ⊻	Use the selected configuration file as the new one			
	Choose options to replace			
	✓ Create a backup (.old)			
	Previous Next App	ly	Close	2

Application Options File Importer

Use the selected configuration file as the new one	Use the RemoteDesktopManager.cfg file as a new configuration file for your application.

Choose options to replace	Select which options to replace in your actual RemoteDesktopManager.cfg file. See below for more information.
Create a backup (.old)	Create a backup of your old RemoteDesktopManager.cfg

### CHOOSE OPTIONS TO REPLACE

Remote Desktop Manager - Application Options File Importer				_		×
S Application	Options File Im	porter				
♥ ♥ Registration informa ♥ Saved installation pa Saved templates		RDMO cr     Proxy se	edentials ttings	Ignore Ignore		
Replace All	Ignore All	Descri	ption			
Data Source Type     Name       Data Source Type     QA - LAB       Devolutions Online Dat     QA - LAB       Devolutions Online Drive     Devolutions Online Drive       Microsoft SQL Server     QA-LEX Duo       Microsoft SQL Server     SQL Serv - Admin       Microsoft SQL Server     SQL Serv - UReg       Image: Comparison of the problem     Devolutions on the prive						
Select All	Unselect All					
		Previous	Next	Apply	Close	•

Application Options File Importer

Decide which options to replace with the one from RemoteDesktopManager.cfg that you wish to import. Select **Replace** to replace an existing setting with a new one or select **Ignore** if you want to keep the setting that you already have.

#### 6.2.13.3 Export Options

### DESCRIPTION

Use *File – Options – Export Options* to control the options to export from your application configuration. Use this to easily transfer settings to another machine.

Sharing the exported file with a colleague would effectively give that person whatever credentials you have set in your data source definitions, including credentials set in your DODB.

Devolutions does not recommend sharing any credential to a team data source.

Remote Desktop Manager - Configuration file export — 🛛 🗙					×
🗧 Configuratio	on file export				
Registration Information					
✓ Name				6	
Email					•
🗸 Кеу	XXXXX-XXXXXX-XXXXXX-XXXXX	(			
Include data source credential	Name	Description			
Devolutions Online Dat	QA - LAB				
🗹 [ Devolutions Online Drive	Devolutions Online Drive				
🗹 े Microsoft SQL Server	QA-LEX Duo				
🗹 े Microsoft SQL Server	SQL Serv - Admin				
Microsoft SQL Server	SQL Serv - UReg				
🗹 🚺 SQLite	Local Data Source				
Select All	Unselect All				
			Export	Close	:

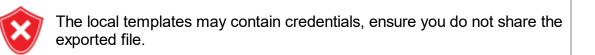
Configuration file export dialog



# **REGISTRATION INFORMATION**

Name	Company registration name.
Email	Registration email.
Key	Serial key.

## **MISCELLANEOUS**



	DESCRIPTION
Proxy settings	Includes your proxy settings.
Saved installation paths	Preserve your installation paths configured for the external application.
Saved templates	Include your local templates in the export.
DODB Credentials	Includes your Devolutions Online Database credentials.
Include data source credentials	Include your data source credentials.

# DATA SOURCES

The data source configurations you select will be exported with the username/password as they are currently configured. If you are creating a file to quickly set up new employees, you must be careful not to give away your credentials. Using the <u>Custom Installer Service</u> is recommended for this case.

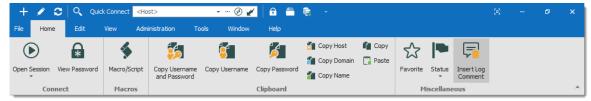
All your configured data sources will be displayed in this section. Select the one(s) that you want to include in the export. Please note that the content of the data source is not exported.

When your settings are customized to your liking, click on **Export**. You will be prompted to save your settings in a RemoteDesktopManager.cfg file.

### 6.3 Home

## DESCRIPTION

The **Home** ribbon tab allows you to apply an action on the currently selected session. The ribbon will display the following tab when the session is embedded.



Ribbon - Home

- Connect.
- Macros.
- Clipboard: Configure clipboard in *File Options.*
- Miscellaneous.

## 6.4 Actions

# DESCRIPTION

The **Actions** tab is only available when a session is open. Available actions differ depending on the action.

For our example we are running an RDP session. The ribbon will display the following tab when the session runs with the Embedded (tabbed) display mode.

🕂 💉 😂 🔍 Quid	Connect <host></host>	🕑 💉	ê 🗂 🎙			Remote De	sktop Manage	er [JafVM]		
File Home Actions	Edit View Adminis	tration Tools	Window I	Help						
$\Theta \mathbf{x} \mathbf{O}$	🖌 🗂	🗔 Undock		🖘 Smart Sizing	Θ	a Cd	Charms	🗮 Start Screen	🕜 Send to Clipboard	4
0 0		🔢 Full Screen		E Smart Reconnect				App Switch	🚱 Save to File	
Reconnect Close LogOff	Macro/Script Type Clipboard	🔢 Work Area Screen	Keep tab on disconnect	🗰 Windows Key on the Remote Computer	View Only	Send Ctrl-Alt-Delete	🚺 Snap		🚱 Save to File and Open	Recon
Connection	Actions	Display		Settings		Comr	nands		Screenshot	Vide

Ribbon - Actions

# CONNECTION

Reconnect	Quickly close the session and then re-open it automatically. Use it to update the resolution of your embedded RDP connections when you resize the window.
Close	Close the active session.
LogOff	Logoff the RDP session. See Logoff topic for more information.

## ACTIONS

Option	Description
Execute	Execute the selected macro or script in the previous window or in the current tab. This is only available when there is something to Execute.
Macro/Scrip t	Displays a window where you can select a macro or script, as well as the execution options.
Type Clipboard	Send the content of the clipboard over to the opened session.

# DISPLAY

OPTION	
Undock	Undock your embedded session and move it anywhere outside Remote Desktop Manager or even on another monitor.
Embedded	Re-embed your session when your session is undocked. This option will only appear if your session is not already in an embedded mode.
Full Screen	Display your session in full screen outside Remote Desktop Manager.
Work Area Screen	This mode allows you to open the connection in full screen but to also have access to your local taskbar.

## SETTINGS

Keep tab on disconnect	Your session tab will stay after a session disconnect. For more information, see Keep Tab Opened topic.
Smart Sizing	Enable or disable the RDP smart sizing. This setting will determine whether or not the client computer can scale the content on the remote computer to fit the window size of the client computer.
Smart Reconnect	Automatically reconnect your session with the most appropriate band.

Windows Key on the Remote Computer	When enabling <b>Windows key</b> , it will send the function to your host instead of running it on your computer.

### COMMANDS

This tab contains multiple type of commands and keystrokes combinations to affect the current session in a variety of instances. As such, these commands depend on the currently selected (and opened) entry. For a few example scenarios, refer to the following topics:

- <u>RDP</u>
- <u>VNC</u>
- SSH Shell (Rebex)
- <u>Telnet</u>

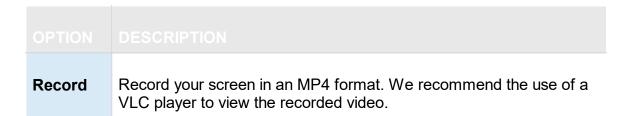


Session add-ons may add custom command in this section, they will not be documented in these topics but rather in the add-on documentation.

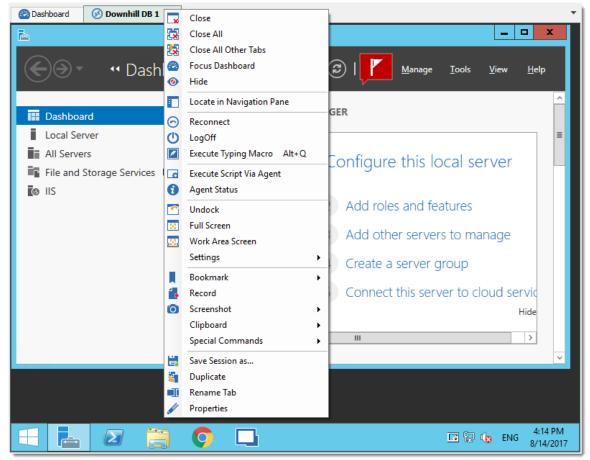
## SCREENSHOT

Send to Clipboard	Performs a typical capture to the clipboard.
Save to File	Prompts for a file name and saves the capture to that file.
Save to File and Open	Prompts for a file name and saves the capture to that file, then automatically open the file using your default editor.

## VIDEO



Alternatively, these actions are also available by **right-clicking** on the tab of an embedded session.



Actions Context Menu of an Embedded Session

#### 6.4.1 Commands

6.4.1.1 RDP

# DESCRIPTION

The commands for an RDP session allows you to send remote commands to your host.

# SETTINGS

0	A	Charms	🚺 Start Screen
		App Bar	App Switch
View Only	Send Ctrl-Alt-Delete	🚺 Snap	
	Comn	nands	

**RDP** Commands

View Only	Prevent the session from receiving any input from the keyboard or the mouse. This feature was requested to allow monitoring while preventing manipulation errors. Use it to have a read only access to the remote server.
Send Ctrl+Alt+Delete	Send the key combination CTRL+ALT+DELETE to the host.
Charms	On Windows 8 or Windows 2012 server, displays the Charms bar (Search, Share, Start, Devices, and Settings bar).
App Bar	On Windows 8 or Windows 2012 server, displays the App bar to show navigation, commands, and tools.
Snap	On Windows 8 or Windows 2012 server, allows you to run two applications side-by-side.

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Start Screen	Open the Start menu on the host computer.
App Switch	On Windows 8 or Windows 2012 server, switches from an application to another.

6.4.1.2 VNC

# DESCRIPTION

The VNC Commands allows you to send remote commands to your host. You will also notice another toolbar holding more defined commands for a VNC session.

# SETTINGS

▼ ··· 🐼 💉	r 🚥 🚱 💉 🗧 VUBUGUI - Remote Desktop Manager									
ADMINISTRATIO	N TOOLS WINDO	W HELP								
Macro/Script	Undock Undock Full Screen Work Area Screen	Keep tab on disconnect	connect	<b>O</b> IIy	A GD Send Ctrl-Alt-Delete	Charms	App Bar	Snap	Start Screen	App Switch
Actions	ctions Layout Settings				Commands					
т×	🔁 Dashboard 🛛 🐼 🛛									
· · · ·	😋 <b>= </b> 🔤 🖆 Alt (	Ctrl 💿 🖳 🖆 🖓 🚼	0							

VNC Commands

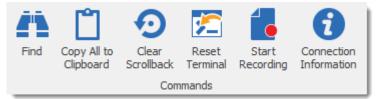
Refresh Screen	Refresh the host screen.
Window Start Menu	Open the Start menu on the host computer.
Send Ctrl-Alt- Delete	Send the key combination CTRL+ALT+DELETE to the host.

Send Custom Keys	Send custom keys combination to the host.
Alt	Send ALT to the host.
Ctrl	Send CTRL to the host.
View only mode	This will prevent the session from receiving any input from the keyboard or the mouse. This feature was requested to allow monitoring while preventing manipulation errors. Use it to have a read only access to the remote server.
Remote input	Keyboard and pointer events will be sent to the server and the local and remote clipboard will be synchronized.
Open file transfer	Open the file transfer with the host computer.
Open chat dialog	Open a chat dialog with the host computer.
Options	Open the Connection Options window.
Information	Open the window containing information regarding your VNC connection status and traffic.

6.4.1.3 SSH Shell (Rebex)

# DESCRIPTION

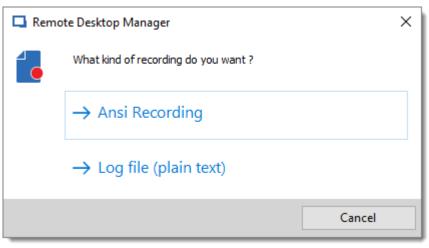
The commands for a SSH Shell session allows you to send remote commands to your host.



Actions – SSH Shell (Rebex) Commands

Find	Open a find window to search for a specific word.
Copy All to Clipboard	Copy all selected text to the Clipboard.
Clear Scrollback	Clear the scrolling display that precedes the current line.
Reset Terminal	Reset host terminal connection.

# START RECORDING



Recording type

Ansi Recording	Record all of the activity in the SSH session using the Ansi format. This can be replayed like a video using <b>Tools - Tools - Terminal</b> <i>playback (Ansi)</i> .
Log file (plain text)	Record all of the activity in the SSH Shell (Rebex) session using a text format.

## **CONNECTION INFORMATION**

Provides connection host information in a form as shown below.

📮 Remote Desktop Manager		×			
SSH Connec	tion Ir	formati	on		
Host key algorithm Key exchange algorithm Incoming MAC algorithm Incoming cipher Incoming compression					
Outgoing MAC algorithm Outgoing cipher Outgoing compression Summary					
				Oł	(

#### SSH Connection Information

#### 6.4.1.4 Telnet

## DESCRIPTION

The actions for a Telnet session allows you to send remote commands to your host.

# SETTINGS

Ä	Ľ	•	1	1
Find	Copy All to Clipboard	Clear Scrollback	Reset Terminal	Start Recording
		Commands		

Telnet Commands Actions

Find	Open a find window to search for specific words.
Copy All to Clipboard	Copy all selected text to the Clipboard.
Clear Scrollback	Clear the scrolling display that precedes the current line.
Reset Terminal	Reset host terminal connection.

# START RECORDING

📑 Remot	📮 Remote Desktop Manager							
	$\rightarrow$ Ansi Recording							
$\rightarrow$ Log file (plain text)								
		Cancel						

Ansi Recording	Will record all of the activity in the SSH session using the Ansi format. This can be replayed like a video using <b>Tools - Tools -</b> <b>Terminal playback (Ansi)</b> .
Log file (plain text)	Will record all of the activity in the SSH session using a text format.

# 6.5 Edit

# DESCRIPTION

The **Edit** tab contains operations to quickly Add, Edit, Overrides, Batch Edit or Export entries.

+ 🌶	+ 🖍 😂 🔍 Quick Connect 🛛 <host></host>						··· 🔗 🆌	A 着 🧕	-			Remote Deskt
File H	ome	Edit	View	Admir	nistration	Tools	Window	Help				
+	🚰 Dupli	icate			📲 Rename	:=	à		Í	Í		🧓 Export as Remote Desktop File (.rdp)
	🕐 Crea	te Short	ut		🔊 Move	<u>+ –</u>		,• 🖵	- 10		-9	🗧 Export Selection (.rdm)
New Entry	🔁 Save	e as Temp	olate	Properties	🗙 Delete	Play List	User Specific Settings	Local Specific Settings	Edit (Special Actions)	Batch Edit ▼	Move to Vault	Export Selection (.dd)
	Add				Edit		Setting (	0verrides	1	Batch		Export
								=				

Ribbon - Edit

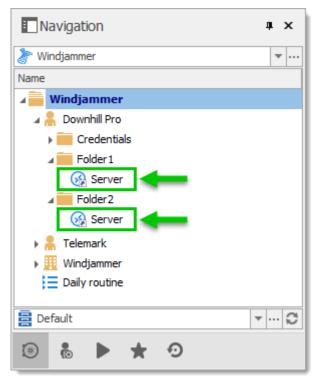
ADD

New Entry	Create a new entry (session, folder, information entry, credentials, etc.).
Duplicate	Create a duplicate of your entry.
Create Shortcut	Link your entry to more than one group. For more information, consult the text below.
Save as Template	Save the selected entry as a local or database template.

A shortcut is the reiteration of an existing entry. In contrast to a duplicated entry, which has its own ID and properties, a shortcut is a link to an entry and its properties. You can create shortcuts easily by right-clicking the entry *Edit – Create Shortcut* or by using the aforementioned button in the *Edit* tab. There are a few scenarios where a user would want to use the same entry differently, such as connecting to two different hosts with a single RDP session.

For example, it is possible to:

- Assign different access to the same entry.
- Create a favorite folder with everything centralized.
- Reuse a document for different scenarios.



These two entries are the exactly the same

Entries reiterated this way also have both folder paths indicated in their Folder field in their properties, the paths are separated by a semi-colon.

There is no visual differences between the shortcut and the original entry. Therefore, you'll need to delete all entries to completely remove said entry. You will be asked for confirmation when attempting to delete said shortcut.

#### EDIT

Properties	Edit the properties of the selected entry.

Rename	Rename the selected entry.
Move	Move the selected entry to another folder.
Delete	Delete the selected entry. A confirmation dialog is displayed to confirm the action.
Play List	Use the various play list features.

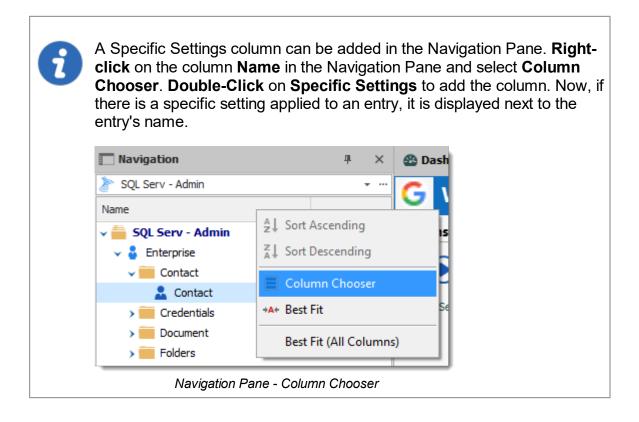
The **Play List** feature in Remote Desktop Manager is a lot like a music play list. It opens a list of entries, in a specific order, automatically. The Play List can be used to create groups of sessions for a specific task or for security reasons. You can build your own Play List and start all entries from a Play List at the same time.

- Create and Edit a Play List
- Using a Play List

#### **SETTING OVERRIDES**

User Specific Settings	Override properties of the selected entry with settings with settings specific to the current user. For more information, please consult the <u>Specific Settings</u> topic.

Local Specific Settings	Override properties of the selected entry with settings specific to the local machine. For more information, please consult the <u>Specific Settings</u> topic.



#### BATCH

Edit (Special Actions)	Perform special actions on the selected entries, such as change the type, run a script, and more. For more information, please consult the <u>Batch Actions Samples</u> .
Batch Edit	Perform an action on multiple entries at once. This is particularly useful for doing mass modifications of entries (such as changing the display mode after modifying the workspace or their credential entries when changing your passwords). Multiple entries must be selected for this feature to be visible. For more information, please consult the <u>Batch Edit</u> topic.
Move to Vault	Transfer the selected entries to another Vault in the database.

# EXPORT

Export Entry as Remote Desktop File (.rdp)	Export the selected entries in a Remote Desktop File (.rdp) format.
Export Selection (.rdm)	Export the selected entries in a .rdm file that can then be imported into any Remote Desktop Manager data source. You could choose to include the credentials of your entry in your export format and secure your file with a master key.

#### 6.5.1 Entries

6.5.1.1 Checkout system

#### DESCRIPTION

The **Checkout** system locks an entry while it is being used or modified. It prevents users from using or editing an entry at the same time.

The checkout system can be enabled for **sessions**, **documents**, **credentials**, and **information entries**.

You can set the check out mode at the Vault, folder or entry level.



This feature is only available when using <u>SQL Server</u> or <u>Devolutions</u> <u>Server</u> data sources.

#### CHECKOUT SYSTEM OVERVIEW

Learn more about checkout modes and setting check out on the Vault and folders

#### **USE MANUAL CHECKOUT MODE**

Configure Manual mode and avoid some common mistakes

#### SETTINGS

To access the check out system, edit an entry that supports checkout, and navigate to the **Security** section.

🔲 Remote Desktop Manager [Defaul	t]			×
General	General			]
More Permissions	Checkout mode	Root (Not available) -		
Password Management	Checkout prompt	Root (False)		
Security Settings	Allow offline	Root (True)		
Session Recording VPN/SSH/Gateway	Time-Based Usage			
User Interface	Days	Any day 👻		
Information Jump Host	Time	Any time -		
Events				
Sub Connections	Password Allow password in variable			
Logs > Management Tools	Allow password in variable			
Advanced				
RDP (Microsoft Remote Desktop)           Configured         •				
Variables	Search property	n	ОК	Cancel

Entry properties – Security – Checkout settings

# CHECKOUT MODE

**Checkout mode** enables or disables the checkout system. It also decides how the checkout mode functions.

🔲 Remote Desktop Manager [Default	:]				×
Remote Desktop Manager [Default         General         More         Permissions         Password Management         Security Settings         Session Recording         VPN/SSH/Gateway         User Interface         Information         Jump Host         Events         Sub Connections	Checkout mode Checkout mode Checkout prompt Allow offline Time-Based Usage Days Time Password Allow password in variable	Root (Not available)   Root (Not available)  Not available Automatic Manual Inherited Optional			×
Logs > Management Tools Advanced					
Variables	Search property	n	ОК	Canc	el

Checkout mode

Root	Inherits the checkout mode setting from the root folder.
Not available	Disables the checkout system.
Automatic	Checks out an entry automatically when the entry is opened and automatically checks the entry in when the entry is closed. User can edit properties without checking out the entry.
Manual	Users need to check out the entry manually prior to opening or editing the entry. No action can be performed without checking out the entry.
Inherited	Inherits the check out mode from the parent folder.
Optional	Offers the option to check out an entry manually or use (open and edit) the entry without checking it out.

## CHECKOUT PROMPT

**Checkout prompt** sets if a user must enter a comment when they check out the entry. Administrators can monitor the comments through the logs available on the entry or Activity Logs.

🔲 Remote Desktop Manager [Default	:]				×
General More Permissions Password Management Security Settings Session Recording VPN/SSH/Gateway User Interface Information Jump Host Events Sub Connections Logs > Management Tools Advanced RDP (Microsoft Remote Desktop) Configured ~	General Checkout mode Checkout prompt Allow offline Time-Based Usage Days Time Password Allow password in variable				
Variables	Search property	n	ОК	Cano	el

Checkout required

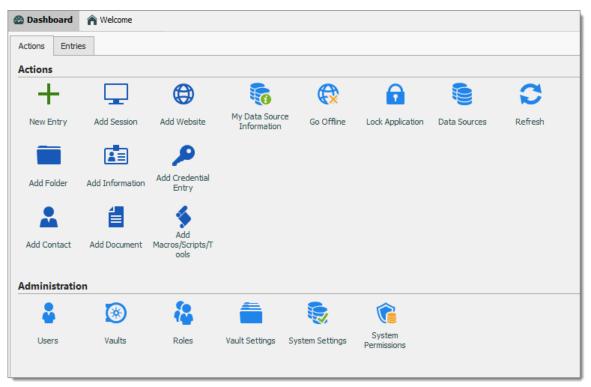
Root	Uses the checkout prompt setting from the root folder.
True	Prompts the user for comment when they checkout an entry.
False	Removes the prompt for comment.
Inherited	Inherits the setting from a parent folder.

#### **VAULT SETTINGS**

The checkout system **Vault** refer to the settings in the Vault folder.

To set the checkout system Vault settings:

- 1. Select the Vault folder in the navigation pane.
- 2. Click on the Vault Settings button in the Dashboard.



Access the Vault Settings

3. In the Vault settings, navigate to the Security section.

🔲 Remote Desktop Manager	- Vault Settings			D	×
着 Vault Settin	gs				
General Permissions Password Management Security Settings Session Recording Documentation User Interface Settings	General Checkout mode Checkout prompt Allow offine Time-Based Usage Days Time	Root (Default)         True         True         Any day         Any time			
	Search property	<u>n</u>	ОК	Cano	:el

Checkout system - Vault Folder

#### 6.5.1.2 Credential Redirection

# DESCRIPTION

Some tools do not provide an Application Programming Interface (API) or support command line parameters to interact with them. 1Password, Firefox Password Manager, Google Password Manager and LastPass are such tools.

In order to leave the credentials in the external tool, and be able to use these credentials with Remote Desktop Manager, we have implemented a mechanism to request the credentials from the tool, then redirect them to a chosen resource.

This is achieved by running a local-access only applicative web server, then displaying a page that will allow you to store the credentials in your Credential repository. Remote Desktop Manager redirects the credentials from your chosen repository to the remote resource.

## **PRE-REQUISITES**

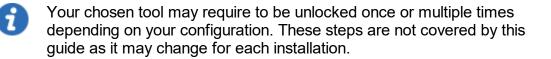
- The tool must be installed on your computer or used with a web browser as an extension.
- The browser extension for your Credential repository must be installed and enabled. Follow your repository documentation for details (see <u>below</u> for the URLs that are currently valid.

### PROCEDURE

There are three steps:

- 1. Create the credential entry.
- 2. Use a link to these credentials in a Remote Desktop Manager entry.
- 3. Open the session and use your provider to fill in the credentials.

We will use LastPass in our example, but the steps are the same for 1Password.



#### CREATING THE CREDENTIAL ENTRY

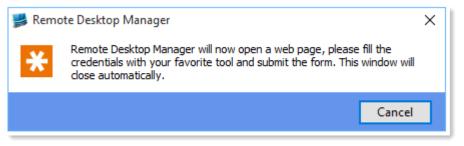
- 1. Create a new LastPass entry.
- 2. Enter a name for your LastPass entry.
- 3. Select the option Credential redirection.

4. Enter a **Name ID** (case sensitive). This must be unique within your LastPass repository. It will be used to identify the credentials and will be exposed as a subdirectory of the URL used to intercept the credentials.

🔲 Remote Desktop Manager [De	fault]						×
🔎 Credentials							
General More Permissions Password Management Segurity Settings Logs		astPass - training@de nterprise\Sessions\Re		•			
Advanced	••••] Mode Name ID Web brow	iser	Credential Redirection training@devolutions.net System default	- - -			
		-	Enter Credentials				
T Variables	Search property	n		Create another	ОК	Canc	el

LastPass credential

- 5. Optionally select a specific browser, or use the default one.
- 6. Press the Enter Credentials button. This will launch the following sequence of events.
- 7. Remote Desktop Manager displays the following dialog.



RDM - LastPass

8. The chosen browser is launched for a URL that looks like http://127.0.0.1:8000/training@devolutions.net/login.aspx. Notice the middle part is the **Name ID** entered previously.

9. Enter your credentials to save in the browser

Session Name training@devolutions.net	Credential Name training@devolutions.net
Please enter your credentia	als
User name	Password
	Submit

10. Depending on the configuration of your provider, you have to press a keyboard combination, or press on a button for the tool to save the credentials. Please refer to the documentation of your tool for more information.

<b>Remote Desktop Manager will now process your credentials</b> You can return to Remote Desktop Manager Client. This page will close automatically in 15 seconds.
Close Now

- 11. In Remote Desktop Manager, save your credential entry.
- 12. Using your password provider, confirm that the credentials are saved.

#### **CREATING A SESSION USING THE CREDENTIAL ENTRY**

- 1. Create a new entry, we will use an RDP session for the example.
- 2. Enter a name for your RDP session.

3. For **Credentials** select **Credential repository** and then your newly created credential entry

		Commands	;
Name	Training	$\mathbf{S}$	
Folder	Enterprise\Sessions\Remote Connections		
Display	Embedded (tabbed)		

Credential repository

# USING THE SESSION

Select your session then launch it. This will initiate the following sequence of events:

1. Remote Desktop Manager will display this informative dialog

闄 Remo	te Desktop Manager	×
$\bigotimes$	Remote Desktop Manager will now open a web page, please fill the credentials with your favorite tool and submit the form. This window will close automatically.	
	Cancel	

2. The chosen browser is launched with the URL associated to the session

3. Depending on your configuration, the credentials are entered automatically, or you have to press a key combination to initiate your tool. Please refer to the documentation of your tool for more information.

Session Name user@domain	Credential Name user@domain
user@uumain	user@domain
Please enter your cred	entials
User name	Password
windjammer\david	•••••
	Submit

4. In the web browser, press submit. The page will be closed after a delay

5. The RDP session is launched and authentication is successful

#### **SEE ALSO**

Lastpass downloads: https://lastpass.com/misc\_download2.php

1Password instructions: https://support.1password.com/browser-extension/

6.5.1.3 Dynamic Credential Linking

### DESCRIPTION

Dynamic credential linking creates a single credential entry for a supported credential manager and use this credential with any entry type that supports the Credential repository.

### SUPPORTED CREDENTIAL MANAGERS

Here is the list of all implemented credential managers that support dynamic credential linking:

- 1Password
- AuthAnvil Password Server
- Bitwarden
- Dashlane
- Devolutions Password Hub
- Devolutions Server
- KeePass
- Keeper
- LastPass
- Mateso Password Safe

Commands	397

- PassPortal
- Password List
- Password Manager Pro
- Password Safe
- PasswordState
- Password Vault Manager
- Pleasant Password Server
- RoboForm
- Secret Server
- Sticky Password
- TeamPass
- True Key
- Zoho Vault



A dynamic credential link can also be applied to a Folder or a VPN entry type if desired.

# SETTINGS

1. Create a credential entry and check Always prompt with list.

General					
Logon Settin					
	Mode	Integrated	-		
Integrated					
	Database				
	Password			0	
		Always ask password			
	Title				
	Uuid		Che	:k	
		Always prompt with list			

1Password Settings

2. When creating a entry, select **Credential repository** from the **Credentials** drop down list, then select the credential entry created in the previous step. Notice that a new action appears just below the credential selection drop down list.

Name	
Folder	Enterprise\Sessions\Remote Connections off
Display	Embedded (tabbed) -
Credentials	Credential repository    Enterprise \Sessions \Remote Connections \1Password
	Select from List

Select from List

3. Select a credential from the list.

Remote Desktop Manager - LastPass Credentials List     ••••   LastPass Credentials List	-	□ ×
Search   devolutions_sup@outlook.com		C
Expand All Collapse All	ОК	Cancel

LastPass Credentials list

4. The link changes to the name of the credential. To remove linked credential and bring back automatic list prompt, simply click on the "X".

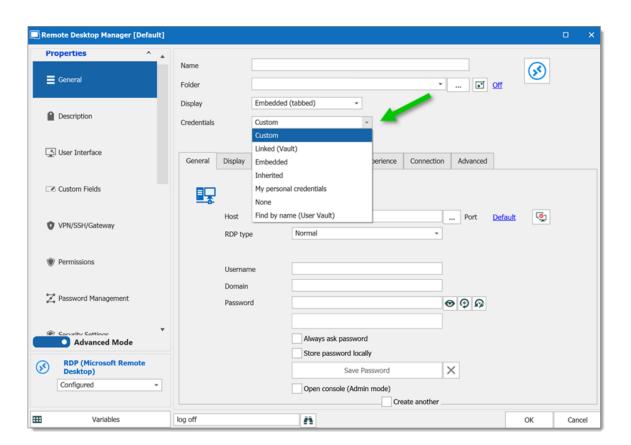
Name	
Folder	LAB Environment\by Services / Protocols\Credentials\L • If Off
Display	Embedded (tabbed)
Credentials	Credential repository   LAB Environment\by Services / Protocols\Credentials\Lastpass\LP Standard - E
	X ted@telemark

Name of the credential

6.5.1.4 Entry Credentials Options

# DESCRIPTION

Multiple options are available to use for *Credentials* in your Remote Desktop Manager entries.



	DESCRIPTION
Custom	This option allows to enter custom credentials in the <i>General</i> section of the entry.
Linked (Vault)	Link your entry to use an existing <i>Credential</i> entry in the same vault.
Embedded	You can embed a specific <i>Credential</i> entry that would require, for example, specific information than just using the <i>Custom</i> option available in the entry itself.
Inherited	The credentials used by this entry will be inherited and defined by climbing up the navigation tree until it has access to a set of credentials in a parent folder.
My personal credentials	Will use the credentials set in <u>My personal credentials</u> feature. This allows you to centralize one credential to

	replace or emulate the ones for your Windows session.
None	No credentials will be allowed to be saved or linked to this entry.
Find by name (User Vault)	Will search your <b>User Vault</b> for the name specified. If the box is left empty, when launch, a <b>Credential list</b> will open with all available <b>Credentials</b> entry from your <b>User Vault</b> .

#### 6.5.2 Edit

#### 6.5.2.1 Play List

6.5.2.1.1 Create and Edit a Play List

# DESCRIPTION

You can create Local or Shared play List in Remote Desktop Manager. There's several methods to create or edit a Play List:

- Using the Play List Management.
- Create Play List depending on entries state and selection.
- Edit an existing Play List



You can also use the context menu to create and edit your **Play List**. When your entries are selected, **right-click** in the Navigation Pane and select **Play List – Create Play List** or **Add to Play List**.

# SETTINGS

# USE THE PLAY LIST MANAGEMENT

You can access this by selecting Play List Management in the ribbon.

Remote Desktop Manager - Play List Management	×
⋮Ξ Play List Management	
Local Shared User Vault	
Name	New
	Edit
	Delete
	Copy to
	Соруко
Launch at startup Last opened connections Confirmation at startup	
Execute Script Against Select in Navigation Pane Open Embedded 🕑	Open

Local Play List

Play lists can be saved three different ways:

Local	The Play List is saved locally and can only be accessed as such. These can only be launched through the Play List Management.
Shared	The Play List is saved in the database. It can be accessed by anyone on the data source. These can be launched through the Play List Management or by using the entry itself.

User Vault	The Play List is saved in your User Vault and can only be accessed by the user. These can be launched through the Play List Management or by using the entry itself.

## **ACTIONS**

## CREATE PLAY LIST DEPENDING ON ENTRIES STATE AND SELECTION

1. If you wish to pre-determine a list of entries, select them for your Play List in the Navigation Pane.

Navigation	щ	×
脧 SQL Serv - Admin		<b>•</b>
Name		
🗸 📒 SQL Serv - Admin		
🗸 🔓 Enterprise		
Contact		
🚨 Contact		
> 🧰 Credentials		
> Document		
> Folders		
> InfoTypes		
> Macro		
V Sessions		
Add-ons		
> Cloud Explorer		
> Other		
Remote Connections		
Veb		
🥭 Test		
G Web Browser (http/ht		
📧 Default	÷ .	- C
o 🚯 🕨 ★ 📀		

Selected Entries in the Navigation Pane

2. On the Edit ribbon menu, click Play List, then select whichever setting you prefer.

+	Ì	C	<b>Q</b> (	uick Co	nnect <ho< th=""><th>st&gt;</th><th></th><th></th><th>÷ .</th><th>··· 🕑 🆌</th><th><b>f</b></th><th>i 🤤</th><th>•</th><th></th></ho<>	st>			÷ .	··· 🕑 🆌	<b>f</b>	i 🤤	•	
File	Ho	me	Edit	Viev	v Adm	inistration		Tools		Window	Help			
+	-	_	uplicate eate Shor	tcut		🗐 Rer			Ξ	<u>A</u>			Í	Í
New En	ntry	🔁 Sa	ave as Ten	nplate	Properties		ete	Play L	.ist	User Specifi Settings		Specific tings	Edit (Special Actions)	Ba Ed
Add Edit				Edit		[异 New					tc			
🔲 Nav	vigati	on				ч ×	-	ia.	Crea	ate from Ope	ened Sess	ions		Ш
🐉 SQL Serv - Admin			÷ …											
Name								174	Add	d Selection to	Existing	Play List	(1 Entry)	
v 🚔 s	QL S	erv - A	Admin				Act	E	Play	/ List Manage	ement			en
- <b></b>	Ente	erprise						-						3

Edit - Play List - New

	DESCRIPTION
New	Creates a new Play List directly, a window prompt will ask you where you wish to save it and which selection you would like to highlight.
Create from	Brings up the window for creating a new Play List with all
Opened	currently opened session already selected for the Play List.
Sessions	You can select and remove additional entries if desired.
Add Selection to	Prompts a window where you can select currently accessible
Existing Play	Play Lists and adds the selection in the Navigation Pane to
List (X Entry)	the Play List.

3. Choose if you wish to save your Play List locally, in a shared Vault or in your User Vault. Saving it locally will prompt a different window. This window will contain everything needed for a local Play List.

🔲 Rem	ote Desktop Manager	×
Ξ	How do you want to save your new play list?	
	$\rightarrow$ Local	
	$\rightarrow$ Shared	
	$\rightarrow$ Private Vault	
	Canc	el

Save New Play List

4. The next window lets you choose how you want your current selection or opened sessions to affect your playlist.

🔲 Remo	ote Desktop Manager	×
≣	Please select the default selection for the new play list	
	$\rightarrow$ Selected Entries in Navigation Pane	
	→ Opened Tabbed Sessions	
	$\rightarrow$ No Selection	
	Canc	el

Selected Entries in Navigation Pane

Selected Entries in Navigation Pane	All currently selected entries in the Navigation Pane will already be selected for your Play List. You can still add and remove entries to the Play List if you desire.
Opened Tabbed Sessions	All currently opened sessions (Embedded only) will already be selected for your Play List. You can still add and remove entries to the Play List if you desire.
No Selection	No pre-determined selection will be taken into account, create your Play List from a fresh start.

- 5. a) Enter a name for your Play List.
- b) You can review, add or remove entries from the play list on the connections tab.
- c) In Advanced you can set how the entries open.

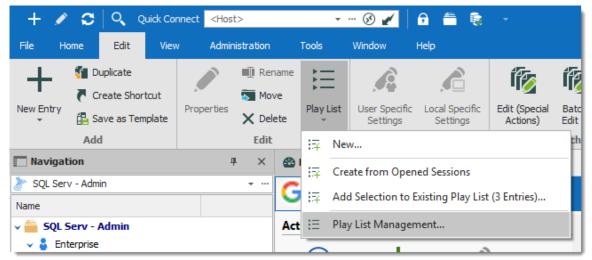
📃 Remote Desktop Manage	er [Default]		×
i∃ Play List			
General More Permissions Advanced	Name     Monday routine       Folder		
	B C General Connections Advanced		
	Description		
	Import Export		
📜 Play List			
	ОК	Cano	el

Play List Editor

And there you have it, your Play List is ready for use.

# EDIT EXISTING PLAY LIST

1. On Edit, click Play List Management.



View - Play List Management

2. Select the Play List you wish to modify and click Edit.

Remote Desktop Manager - Play List Management	×
⋮Ξ Play List Management	
Local Shared User Vault	
Name	New
	Edit
	Delete
	Copy to
Launch at startup Last opened connections	
Execute Script Against Select in Navigation Pane Open Embedded 👀	Open

Play List Management



If the Play List is shared or saved in your User Vault, you can also **rightclick** the entry and click Properties to access it.

6.5.2.1.2 Play List Management

# SETTINGS

#### **USING A PLAY LIST**

First, open your Play List Management Edit – Play List – Play List Management.

There are five methods to using your Play List.

Remote Desktop Manager - Play List Management –	□ ×
⋛ Play List Management	
Local Shared Private Vault	
	New
Local Play List	Edit
	Delete
	Copy to
Launch at startup Last opened connections - Confirmation at startup	
🖾 Execute Script Against 🔲 Select in Navigation Pane 🗂 Open Embedded 🕟	Open

Default Mode

Open	Launch the selected Play List.

Open Embedded	Overrides the display selection of entries inside the Play Lists and launches them as Embedded (some entries might not support this).
Select in Navigation Pane	Selects all entries the Play List contains in the Navigation Pane.
Execute Script Against	This will prompt for you to select the <b>Typing Macro</b> (exclusively) you wish to execute against your Play list.
Launch at startup	Here you can select a specific Play List you would like launched whenever the application starts. You can also default back to <b>None</b> or <b>Last opened Connections</b> .

- 6.5.3 Setting Overrides
- 6.5.3.1 Specific Settings

### DESCRIPTION

**Specific Settings** are used to override the properties of an entry. Several settings can be overridden, such as the credentials or the display mode. There are two types of Specific Settings: user Specific Settings and local machine Specific Settings.

- User Specific Settings override an entry's properties for a single user.
- Local Specific Settings override an entry's properties for all users of a specific device.

•

This feature is only available when using an <u>Advanced Data Source</u>. A setting on the data source allows usage of Specific Settings. Contact your administrator if the menu is grayed out.



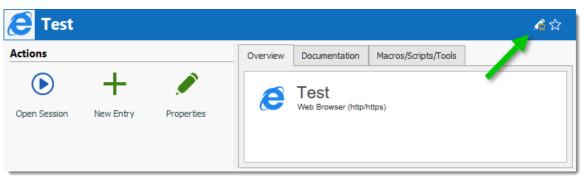
If both User Specific Settings and Local Specific Settings are defined on the same entry, Local Specific Settings have the priority.

#### These can also be accessed by using the right-click on an entry and going to Edit - User/Local Specific Settings. Remote Connections Web Notest Open Session E Te Open with Parameters ۲ Gw 8 View Password > 🚞 Synchrd 🚮 Copy Username and Password Mac Ent 2 Copy Username 6 Copy Password +New Entry Ins Ctrl+D 🚛 Duplicate Add ۲ Edit ۲ Edit Entry Ctrl+E Ì 🔊 Move... í Edit (Special Actions)... X Delete... Ctrl+Del User Specific Settings Ctrl+Shift+E Â ☆ Favorite ĉ Local Specific Settings Ctrl+Alt+E E Play List ۲ Í Batch Edit ۲ Clipboard ۲ 7 Create Shortcut... Macros/Scripts/Tools ۲ Tags... View ĸ Parent ۲ Import • F2 $\square$ Rename Export ۲ Status ۲ 📧 Default 6 Expand All Ctrl + ło -Collapse All Ctrl -Properties <Search>

Context menu – Edit – User and Local Specific Settings

#### SPECIFIC SETTINGS INDICATOR

An indicator icon is displayed in the dashboard when an entry with **Specific Settings** is selected. Click on the icon to open the Specific Settings dialog.



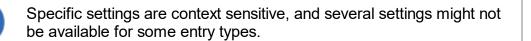
Specific Settings indicator

## WORKFLOW

In the majority of cases, editing the **Specific Settings** displays the following dialog:

Remote Desktop Manager - Local Specific Settings			×
🔏 Local	Specific Settings		
General Settings	Tools VPN Custom Fields Advanced		
Display	External ~ Default ~		
Jump	• Off		
✓ Override credent	ntials Default -		
Userna	ame		
Domain	n		
Passwo	ord 💿		
	OK	Cano	el
		Cont	

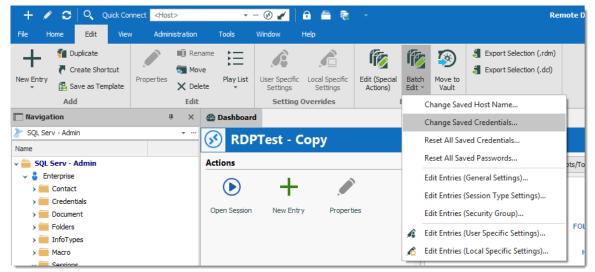
User Specific Settings



- 6.5.4 Batch
- 6.5.4.1 Batch Edit

## DESCRIPTION

The **Batch Edit** feature changes the settings of multiple entries in one operation. For example, it can be used to remove or update the credentials of a group of sessions.



Edit - Batch Edit

# **ADVANCED SELECTION**

Select multiple entries by using the usual **Ctrl/Shift + Left-click**, etc. For a method with a little more power, use the <u>Advanced Search</u> feature, which allows to select multiple entries at once, based on the defined criteria. The advanced search is available in *View* – *Advanced Search*. If required, you can achieve similar result with the **Multi Vault** Advanced Search.

🗒 Remote Desktop Manager - Advanced Search	- 🗆 X
🔍 Advanced Search	
Search Settings	2 items
Name   RDP Contains Case se	nsitive Load
None	Save
None	Save As
None	Export
	Search
Name Description	
Enterprise \Sessions \Remote Connections	
(§) RDPTest	
S RDPTest	
Reset	Select in Navigation Pane

Advanced Search

Press on **Select in Navigation Pane** to select the same entries as in the **Advanced Search** dialog. Then use *Edit* – *Batch Edit* to edit all the selected entries.

### **SETTINGS**

#### **CHANGE SPECIFIC SETTING**

You can choose to change a specific setting, for instance, the Host name.

🔲 Remote Desktop Manager - Change your Host Names		
🖵 Char	nge your Host Names	
Host	New name	
	Save	Cancel

Change Host Name

## **RESET ALL SAVED CREDENTIALS OR PASSWORD**

Clear all the existing credentials of all the selected sessions or specifically the password if desired.

# EDIT SESSIONS (GENERAL SETTINGS)

Edit Sessions (General Settings) allows you to change the common settings of all the selected entries.

🔲 Remote Desktop Manage	r - Batch Edit			×
🎼 Batch Edit				
General More VPN/SSH/Gateway Permissions Password Management Security Settings Session Recording Information Events Logs Management Tools Advanced	Override Folder Override Display Override Override	Enterprise\Sessions\Remote Connections		
	Search property	ОК	Cance	el

Batch Edit – Common settings

# EDIT SESSIONS (SESSION TYPE SETTINGS)

Change settings that are is available only for specific session types, such as Microsoft RDP.

🔲 Remote	e Desktop Manager	- Batch Edit		×
Тр в	Batch Edit			
General	Display Local Reso ✓ Edit logon setting			
	Host RDP type	s in batch Edit RDP type in batch Port Default Normal		
	Username Domain	John I		
	Password	Popular     O     6 months     Always ask password		
		Save Password X		
		Open console (Admin mode)		
		Search property 💦 OK	Canc	el

Sessin Type Settings

## EDIT SESSIONS (USER/LOCAL SPECIFIC SETTINGS)

<u>Specific Settings</u> can be modified in a batch if supported by the type of the edited entries.

# 6.6 View

# DESCRIPTION

The **View** ribbon is used to control different feature regarding the views, layout and logs of Remote Desktop Manager.



Ribbon - View

Refer to the following topics for more information:

#### PANELS

	DESCRIPTION
Vault	Access the view mode for your Navigation Pane for the current Vault.
My User Vault	Display your User Vault in the Navigation Pane.
Opened Sessions	Display the currently <u>Opened Sessions</u> in your Navigation Pane.
Favorites	Display your <u>Favorite</u> entries and folder in your Navigation Pane.
Recent	Display your <u>Recently Opened Sessions</u> in your Navigation Pane.
Task List	Display your current <u>Task List</u> .

## VIEW

Advanced Search	Use the <u>Advanced Search</u> feature.

Multi Vault Advanced Search	This functions essentially the same way as <b>Advanced Search</b> , but it searches all the Vaults of the database.
Activity Logs	Open the <u>Activity Logs</u> .
Quick Connect	Launch a Quick Connect session.
Entry Lists	Prompts a window that displays all the Credential, Macros/Scripts/Tools, VPN or Synchronizer entries in the database (restricted by user rights).
Documentation Search	Allows you to filter entries through their <u>Documentation</u> , such as Description or Procedure.
Filter	This prompts a window to filter the Navigation Pane.
Tab Groups	Open a docked window to browse through the various Tab Groups.
Notification	Open an undocked window to browse threw the various notifications (such as entries expired or about to be, or tasks).

# LAYOUT

Navigation	Toggle the Navigation Pane.
Dashboard	Toggle the Dashboard.
Thumbnails	Toggle the Thumbnails.

Top Pane (Ribbon/Menuba r)	Toggle the Ribbon. (Right-click the Application header to bring it back or use <b>Alt+F11</b> ).
Grouped Tab Bar	Toggle the grouped tab bar. (Must have group tabs to work).
Status Bar	Toggle the Status bar.

#### FOOTER

The **Footer** section allows you to show or hide the various panes that are provided with Remote Desktop Manager.



Although they are by default displayed in the footer, all those panes can be dragged and docked anywhere within Remote Desktop Manager.

#### 6.6.1 Task List

# DESCRIPTION

Create a list of tasks to keep track of work that needs to be done by the team. You can perform a search to filter out the list of displayed tasks. You can search by Due Date, username or by Status.

Task lists can be exported in different types of files for printing or reviewing. Right-click the task list to export in html, xls, xml or csv. You can also export filtered task lists.

🚯 Dashboard 🚺	Task 🕲				
✓ Due Date	Last 7 Days • 6/11/2019	- <b>To</b> 6/18/2019	~		
Status	-				
Username	Ţ	A Searc	ch		
+ 🖉 🗙 🖕	Auto refresh				
Name			Status	Due Date	
Create new Entries			Open		

Task list



# **CREATING A TASK**

1. Click on Add new task.

🖀 Dashboard	🖥 Task 🛛				
✓ Due Date	Last 7 Days	▼ 6/11/2019	- To 6/18/2019	Ŧ	
Status		Ŧ			
Username		Ŧ	n Sear	h	
+_/ × 🗯	Auto n	efresh			
Name				Status	Due Date
Create new Entries				Open	

Add a task

2. Enter your task information, like the name of the task, the priority, the due date, the description, etc.

🔲 Remote Desktop Manager	- Task Management			×
ブ Task Manag	ement			
General	Name Entry Priority Description	RDPTest           1          Due Date         2/24/2019         6/18/2019 - 1		M A
	User Comment	Status Open		•
		ОК	Cance	4

Task Management

Name	Enter a custom name for the task
Entry	Displays the entry currently selected in the Navigation Pane. The task is assigned to this entry. Read-only field.
Priority	Set the priority of the task.
Due date	Set a deadline for the task.
Description	Enter a description of the task for the assigned user.
User	Assign a user to the task.
Assign to me 🗳	Click this button to assign the task to yourself.

Clear assigned user 🗙	Clear the assigned user.
Status	Set a status for the task. Select between:  • Open
	Assigned
	• In progress
	• Closed
	• Done
	Canceled
	Postponed
Comment	Enter a comment for the task.

#### 6.6.2 Activity Logs

### DESCRIPTION

The shared session log offers a more robust solution. Through it, it's possible to monitor an opened session for all users that are using an Advanced Data Sources. The log is available for specific sessions in the context menu, in the session properties (Log tab page) and in the dashboard.

#### **SETTINGS**

The log contains all the CRUD (add, edit and delete) operations, passwords being viewed, credentials being used by other sessions, etc...

🖀 Dashboard	📑 Activity Logs 🛛						
Date	Last 7 Days 👻	6/11/2019 ~	To 6/18/2019	- Tid	ket #		
Username	-	Folder		-		✓ All vaults	
Message	-	On open comment		-		Local time	-
Machine name	-	On close comment		-		n Se	arch
Folder	Message	On Open Comment	On Close Comment	Log Date		End Date/Time	Active Time
Jaf	Entry deleted			6/11/2019 9	9:32:22		
Jaf\Credentials	Entry deleted			6/11/2019	9:32:22		
Jaf\Sessions	Entry deleted			6/11/2019	9:32:22		
Jaf\Sessions\A	Entry deleted			6/11/2019	9:32:22		
Enterprise\Sessi	Viewed entry			6/11/2019	9:40:11		
Jaf	Entry deleted			6/12/2019	7:18:50		
Jaf\Sessions	Entry deleted			6/12/2019	7:18:50		
Jaf\Sessions\A	Entry deleted			6/12/2019	7:18:50		
Enterprise\Sessi	Viewed entry			6/12/2019	1:31:22		
Enterprise \Sessi	Viewed entry			6/12/2019	1:31:46		
Enterprise\Sessi	Viewed entry			6/12/2019	1:32:00		
	Entry updated			6/12/2019	2:09:28 PM		

#### OPTION DESCRIPTION

Folder	The Folder where your entry is situated.
Connection	The connection being used to open your entry.
Message	Indicate the action that was done on your entry or session.
On Open Comment	The Open Comment is defined in the Log tab of your session, to learn more please see Logs Options
On Close Comment	The Close Comment is defined in the Log tab of your session, to learn more please see Logs Options
Log Date	Indicate the date and time your session was opened or your entry was edited.
End Date/Time	Indicate the date and time when the session or entry was closed.
Active Time	Only available for sessions in embedded mode. It will record your session active time, meaning the time your session was opened in embedded mode and you were active in your session. If your

	session is opened but your view is on your Dashboard tab and not on your session tab, no Active Time will be recorded.
Duration	Only available for sessions in embedded mode. When sessions are opened in embedded mode the Duration time will be recorded, meaning that even if your view is on your Dashboard and you are not actively working in your session but your session tab is opened, Duration will record how long it was opened for.
User	Indicate the Windows username and domain.
Database username	Indicate the database username.
Connection user	Indicate the Connection user.
Machine	Indicate the machine name.
Connection Type	Indicate the connection type that was used.

#### 6.6.3 Advanced Search

## DESCRIPTION

The *Advanced Search* allows to search for entries based on multiple criterias.

📮 Remote Desktop Manager	– 🗆 X
S Advanced Search	
Search Settings	17 items
Connection type        Microsoft Remote Desktop (RDP)        None	Load Save
None ~ None ~	Save As Export
Name Description	Search
Connection1 Connection2 NewConnection3 Downhill	^
Server1     Display Override June	
Reset	Select in Navigation Pane

Advanced Search Window

# SETTINGS

Name	You can select between different criteria to tweak your search:
	• Name
	Connection type
	Contact Reference
	Creation date
	Custom field
	Description

	DESCRIPTION
	• Domain
	• Group
	• Host
	Is favourite
	Keywords/tags
	Last update date
	• Name
	• OS
	Password strength
	Security group
	• Status
	• Username
Load	Load searches that has been previously saved.
Save	Allows you to save your search locally and reuse it.
Save as	Use to save a previously saved search but under another name.
Export	Export the entries of your search result as a Csv, Html, XIs or Xml file. Sensitive information will be encrypted using AES.
Search	Once you have selected your search criteria click on <b>Search</b> to display the search result.
Reset	Reset all your fields to proceed with a new Search.

Select in Navigation Pane	Select your search result in your Navigation Pane. This option can be used in combination with a Batch Edit.

There will be a drop-down list next to certain fields (ex: Name) to give you search options for:

- Contains any name that includes the characters you have entered, anywhere in the field name.
- Starts With any name beginning with the characters you have entered.
- Ends With any name ending with the characters you have entered.
- *Exact Expression* will find names that match every character you have entered, exactly as entered.

#### 6.6.4 Documentation Search

## DESCRIPTION

We can search documentation pages linked to entries. Documentation search provides a preview of the documentation pages, page title and related entry details. The tool searches the current repository.



Documentation Search is available with Devolutions Server, MariaDB, MySQL and SQL Server data sources.

Commands	429
----------	-----

Remote Desktop	📮 Remote Desktop Manager - Documentation Search -		
🔍 Docu	mentation Se	arch	
employee Name	Description	Search new employee	Description Description Procedure
P Template K Company system	n		
an account			
			Reset Select in Navigation Pane

Documentation search dialog window

# **USER INTERFACE**

🗖 Remote Desktop Manager - Documentation Search - 🗆 🔿		
<b>Q</b> Documentation Searc	n	
employee	Search	Description 🗸
Name Description	new employee	Description Procedure
🔑 Template		
🔖 Company system		
∎ an account		2
	Reset Select i	n Navigation Pane

Documentation search

# **USER INTERFACE**

	DESCRIPTION
Navigation Pane (1)	Lists search results by entry
Content area (2)	Page preview
Drop down menu (3)	Page title; When one entry contains multiple documentation pages with the search term, a list of the page titles is available.

## **SELECT AN ENTRY**

Click Select in Navigation Pane to choose the entry in your main tree view.

#### **CLEAR A SEARCH**

Click **Reset** to clear the search results.

### 6.7 Administration

### DESCRIPTION

The **Administration** tab allows to manage settings and users of a data source, view reports such as the activity logs, and much more. This tab is only available to administrators of the data source.

Most features contained in the Administration tab are only available when using an <u>Advanced Data Source</u>.



Ribbon - Administration

### MANAGEMENT



Users	Opens the <u>User Management</u> .
Security Groups (Legacy)	Security Groups are now a Legacy option, and although we have left documentation in the online help to help users identify it, we strongly recommend switching to User Groups instead.
Vaults	Opens the Vault Management tab of User Management.
User Groups	Opens the <u>User Groups Management</u> tab of User Management.

# REPORTS

The logs feature requires an <u>Advanced Data Source</u>.

Reports	Open the <u>Reports</u> section to select which type of report best suit your current needs.
Administration Logs	Opens the Administration Logs.
Deleted Entries	Open a log of all <u>Deleted Entries</u> (since last clean up).

# SETTINGS



These feature requires an <u>Advanced Data Source</u>.

Vault Settings	Opens the Vault Settings. The Vault Folder is the one at the top of the navigation pane (in Tree View). It is the one from which all entries and folder stem. By default, lower level folders inherit settings and security from parent folder until reaching the Vault. Therefore, using permissions on the Vault folder allows to secure all entries below the Vault level. Refer to <u>Default security for entries</u> for more information.
System Settings (Data Source Settings)	Opens the System Settings. There are many features here, all meant to help you customize your data source and security needs. Remember that these settings applies to all users that have access to the data source.
System Permissions	Modify <u>System Permissions</u> .
Security Provider	Set up a <u>Security Provider</u> for an additional layer of security.

## **CLEAN UP**

This feature requires an <u>Advanced Data Source</u> .					
Clean Up Deleted History	Perform a partial or full clean up of the <u>Deleted History</u> .				

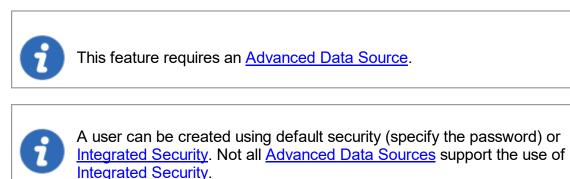
Clean Up Entry History	Perform a partial or full clean up of the <u>Entry History</u> .
Clean Up Activity Logs	Perform a partial or full clean up of the <u>Activity Logs</u> . You also have the option to clean up the <b>Administration Logs</b> if desired.
Pack Data Source (Optimize)	The <u>Pack Data Source (Optimize)</u> feature analyzes all entries, compress and save them, thus saving space in your data source.

#### 6.7.1 Management

6.7.1.1 User Management

## DESCRIPTION

The **Users Management** allows to create and manage users and their privileges. You can set the default privileges on the user type in **Data Source Settings (System Settings)**. Remote Desktop Manager offers advanced user rights management that allows for restricting access to entries. Please note that availability of some features depends on the active data source.



In order to create users and assign rights, you must be administrator of not only Remote Desktop Manager, but also of the underlying database.

## **MANAGE USERS**

To create, edit, delete, rename or otherwise manage users as a whole, simply use the buttons in the toolbar.

Remote Desktop Manager - User and Security Management				
🕥 User and Secu	irity Manage	ement		
Management	+ Add User	🚺 🖉 🗙 💷 👧 🛍 🏷 🕎 💭 Filter		
🔒 Users	Image	Login		
🖁 User Groups				
Vaults				
Licenses				
	4			Ŧ
				_
			Close	

User and Security Management - Toolbar

# **USER MANAGEMENT SETTINGS**

GENERAL

🔲 Remote Desktop Manager - User Management					
🔒 User Manag	ement				
General	General				
General	ID				
User Groups	Authentication type	Database -			
	Username	Integrated security			
Vaults	Password	Create database login/use	er		
	User type	User 👻			
Application Access	User license type	Default 👻			
		User must change password at next logon			
Settings	Information				
Information ×	First name	Last name			
	Email				
		ОК	Canc	el	

User Management - General

Authentication type	<ul> <li>Select the user's authentication type:</li> <li>Custom (Devolutions): create a user specific to Remote Desktop Manager without creating an SQL login.</li> <li>Database (SQL Server): authenticate using the SQL login from your SQL Server.</li> </ul>
Username	Enter the username for the user. When using <u>Integrated</u> <u>Security</u> the user must be selected from the directory.
Integrated security (Active Directory)	Specifie to use Active Directory to authenticate to the data source. Applies only to SQL Server and Devolutions Server, depending on their configuration. For more information, please consult the <u>Integrated</u> <u>Security</u> topic.

Password	Enter the user's Password. This field is disabled when using <u>Integrated Security</u> .
User type	<ul> <li>Select the type of user to create, select between:</li> <li>Administrator: Grant full administrative rights to the user.</li> <li>Read only user: Grant only the view access to the user.</li> <li>Restricted user: Select which rights to grant to the</li> </ul>
	<ul> <li>Restricted user: Select which rights to grant to the user.</li> <li>User: Grant all basic rights to the user (Add, Edit, Delete).</li> <li>For more information, please consult the <u>User Types</u> topic.</li> </ul>
User license type	Select the license type of the user. Select between:  Default  Connection Management  Password Management
Full name	Enter the First name and Last name of the user.
Email	Insert the user's email address.

## INFORMATION

The **Information** section allows to store information regarding the users, such as their name, address, and more. The Information section is divided in three sub-sections: **Details, Address, Phone**.

Remote Desktop Manager - User Management					D	×
🔓 User Manag	jement					
•	Information					_
Vaults	Company					
	Job title					
Application Access	Department					
	Gravatar email					
Settings	Language	English 👻				
Information ^						
Details						
Address						
Phone						
Y						
				ОК	Canc	el

User Management - Information - Details

# **USER GROUPS**

Select user groups to assign to the user.

Commands	439
----------	-----

Remote Desktop Manager - I	User Management					×
🔒 User Manag	gement					
	Roles					
General	Is Member	Small Image	Name			
User Groups						
Vaults						
Application Access						
Settings						
Information ^						
Details	•			10	•	
<b>.</b>			Select All	Uns	elect All	
				ОК	Cano	el

User Management - User Groups

User Groups	Check the <b>Is Member</b> box to assign the user groups to the user. Consult <u>User Groups Management</u> topic for more information.

## VAULTS

Select which repositories the user has access to. For more information, please consult the Vaults topic.

Remote Desktop Manager - User Management				□ ×
🔒 User Manag	jement			
A	Vaults			
General	Has Access	Image	Name	
User Groups				
Vaults				
Application Access				
Settings	4			• •
Information ^			Select All	Unselect All
Details •				
				OK Cancel

User Management - Vaults

## **APPLICATION ACCESS**

The application access section allows to restrain access to Remote Desktop Manager or Devolutions Web Login.

🔲 Remote Desktop Manager - U	Jser Management				×
🔒 User Manag	jement				
▲ Vaults	Application Access Remote Desktop Manager Devolutions Web Login	Allow			
Application Access					
Settings	Time-Based Access Days	Any day	٣		
Information ^	Time	Any time	*		
Details					
Address					
Phone 🔻					
			ОК	Cano	el

User Management - Application Access

Remote Desktop Manager	Select if the user can access to the data source from Remote Desktop Manager.
Devolutions Web Login	Select if the user can access to the data source form Devolutions Web Login.

## SETTINGS

🔲 Remote Desktop Manager - U	Remote Desktop Manager - User Management				×
🔒 User Manag	ement				
General	Settings Offline mode Allow drag-and-drop	Read/write			
User Groups					
Vaults					
Application Access					
Settings					
Information ×					
			ОК	Cano	cel

User Management - Settings

Allow the user to enable the <u>Offline Mode</u> on the data sources. This also depends on the data source being configured to allow it. There are 4 modes available:

Disabled	No offline cache allowed for the user.
Cache only	Allow to save a cache of the data source but not the offline mode.
Read-only	A read-only cache. The user will not be able to edit data in the data source. This mode is allowed for <u>Advanced Data Sources</u> only.
Read/Write	An advanced cache, with change synchronization. This mode is allowed for <u>Advanced Data Sources</u> only.

6.7.1.1.1 User Types

## DESCRIPTION

When creating users in Remote Desktop Manager, four types of user are available. Basic rights are granted to the created users depending on their type.

🔲 Remote Desktop Manager - U	Remote Desktop Manager - User Management			
🔒 User Manag	jement			
	General			
General	ID	9914D1D1-7E4E-47EF-93AA-3F47DB6D9654		
User Groups	Authentication type	Database 👻		
	Username	Integrated security		
Vaults	Password	Create database login/user	r	
	User type	User +		
Application Access	User license type	Administrator User		
		Restricted user at next logon		
Settings	Information	Read-only user		
Information 🗸	First name	Last name		
	Email			
		ОК	Cancel	1

User Management - User Type

Administrator	Grant all rights and permissions to the user.
User	Grant all the basic rights to the user (Add, Edit, Delete). For more information, please consult the <u>Rights</u> section below in this topic.
Restricted user	Personalize the rights to grant to the user.

Read only user	Grant only the view access to the user.

## RIGHTS

When setting a user to the **Restricted User** type, rights must be granted manually. These rights have an immediate influence on which actions the user can perform on unsecured entries. Therefore, rights must be granted for users to be able to perform actions on entries, as permissions cannot override the absence of right.

Once rights are granted, they can be restricted with the <u>User Groups Based Security</u> or Security Groups.

The **Add** right also displays the **Add in Vault** option. This must be enable for users to be able to add entries into the Vault folder of the data source.

Remote Desktop Manager	r - User Management		o x
🔒 User Man	agement		
General	General ID	9914D1D1-7E4E-47EF-93AA-3F47DB6D9654	
User Groups	Authentication type Username	Database	
Vaults	Password User type	Create database login/user	
Application Access	User license type	Default	
Settings	Rights		
Information	Add Control Edit Control Delete Information	Move	
	First name Email	Last name	
		ОК	Cancel

User Management - Rights

6.7.1.1.2 Integrated Security

## DESCRIPTION

Integrated Security is a Microsoft technology, which uses the credentials of the current Windows session and send them automatically to the remote resources for authentication.



This feature is available with the <u>SQL Server</u> or <u>Devolutions Server</u> data sources.

## SETTINGS

To use the Integrated Security, enable the **Integrated Security** box in the **User Management** window. The **Password** field is disabled because the operating system will provide a cached copy automatically.

🔲 Remote Desktop Manager - User Management				×
🔓 User Manag	ement			
General	General			
> Information Roles Privileges	ID	89F53CFE-08AD-4FDC-972C-53DFF3934827		
Security Groups (Legacy)	Authentication type	Database 🔹		
Vaults Application Access	Username	Integrated security (Active Directory)		
Settings	Password	✓ Create SQL Server Login and User		
	User type	User •		
	User license type	Default 👻		
	Information ——			
	First name	Last name		
	Email			
		ОК	Can	el

Integrated Security

When the option is activated, an ellipsis button either appears or is enabled. Click this button to display the **Select User** dialog.

Select User	×
Select this object type:	
User	Object Types
From this location:	
	Locations
Enter the object name to select ( <u>examples</u> ):	
1	Check Names
Advanced OK	Cancel

Select User



Ensure the appropriate domain is displayed in the **From this location** field. Sometime the location defaults to the local computer. Click the **Locations** button to browse for the domain instead.

When using Integrated Security, the currently running windows session must be from a user of the domain. If you need to use other credentials, Remote Desktop Manager must be started using the RUNAS command as described in Running Remote Desktop Manager as Another User.

#### 6.7.1.2 User Groups Management

## DESCRIPTION

User Groups in Remote Desktop Manager manages multiple users at the same time by grouping them. The management of permissions granted to user groups are quite similar to the corresponding notions for users, but instead of a single user, they apply to all users to which you've assigned the user groups.

This feature is only available with an Advanced Data Source.

#### **USER GROUPS IN DEVOLUTIONS SERVER**

User Groups in Devolutions Server are in fact links to Active Directory groups. By leveraging Active Directory integration you can easily define access rights for all domain users in your organization. Once a domain user log in the Devolutions Server data source, their user account will be created if needed and users rights will be controlled by the defined groups.

F g

Please note that the Unsecured group permissions (the ones above the grid) are ignored. You must set them on each user individually.

For more information please see **Devolutions Server User Groups Management**.

## **CREATE USER GROUPS**

User Groups in Remote Desktop Manager are mainly used to group users. You can assign multiple user groups to each user. The end result is the union of all permissions given to the user groups.

To create a user groups, in the **User and Security Management** window, click the **Add User Group** button in the **User Groups** section. From the same menu, you can also edit, assign users, delete or refresh.

Remote Desktop Manager - Use	Remote Desktop Manager - User and Security Management		
🕥 User and Sec	urity Management		
Management	+ Add User Group Add War Group		
Users	Image Name		
沿 User Groups			
le Vaults			
🔮 Licenses			*
	4		•
		Close	2

User Groups - Add User Group

### 6.7.2 Reports

6.7.2.1 Reports

## **DESCRIPTION**

The **Reports** section automatically generates reports detailing Remote Desktop Manager usage related to: Entries, Expired Assets, Passwords, Security and Users. You have the option to export your generated report, as well as executing and exporting reports through a command line.

Commands	449
----------	-----

🔲 Remote Desktop Manager - General	te Report			×
📒 Generate Report				
All Custom Entry Expiration Logs and History Password and Security	Entry Entry Status VPN References Entry List Duplicate Entries Software Licenses Expiration Expired Entry List Expired Entry List Expired Warranties Expired Passports	Credential Entry References VPN Groups Contry Information Contry Entry Validity Entry Validity Expiration Schedule		
	Logs and History —			v
			ОК	Cancel

Generate Report

From this window, you can browse and select a wide variety of Report Types. Explore to your heart's content.

Once Generated, a report will provide you with all the information you selected during this step. These final results can take various shapes and have different features (such as editing a specific entry or printing the result) depending on what the report actually is.



6.7.2.1.1 Export Reports

## DESCRIPTION

The Export Reports is a way to execute and export reports through a command line. You can use this feature in a shortcut or in a batch file and use the Windows task scheduler to execute it.

You will be able to export Data Report, Inventory report as well as most of the reports found in our Generate Report list except for the Password Usage and Security Group.



You must have the rights to run report in Remote Desktop Manager to use this feature.

### SETTINGS



For Reports containing settings, you will have to start with exporting your report settings to create the **\*.rdr** file that the command line use to generate the reports. Here is a list of reports containing settings:

1. Select your Report in *Administrations – Report* and then select the option **Export Settings** in the **More** text button. It will create an **\*.rdr** file containing all your report settings. This is also where you Report ID is located (this will be useful later on).

🔲 Remote Desktop Manage	er - Entry Information Report			×
Entry Infor	mation Report			
Selection	All entries	•		
Desired Tabs				
✓ Computer	✓ Notes	Drives		
✓ Contact	✓ Custom Fields			
✓ Purchase	Details			
Options				
✓ Skip empty tabs	✓ Skip empty fields			
	•			
Export Settings			ОК	Cancel
Copy Report ID to Clip	poard			

Export Settings

2. In your Windows Command Prompt enter the following command line: C:\\*\*\* /DataSource:\*\*\* /report:\*\*\*/reportoutput:"\*\*\*" /reportsettings:"\*\*\*.rdr"

C:/	Enter the path used to start your Remote Desktop Manager application (path of the RemoteDesktopManager.exe file)
/DataSource	Specify the data source ID.
/report	Specify the type of report to generate or the report ID.
/reportoutput	Specify the path to save your report and the name for the newly generated report.
/reportsettings	Specify the path of your report settings file (.rdr).

To find your Data Source ID and the Command Line use to start Remote Desktop Manager edit one of your session from your data source and select the Advanced section.

🔲 Remote Desktop Manager [Defaul	t]		□ ×
General	Miscellaneous		]
More Permissions	Override domain	Default (None)	
Password Management Security Settings	Allow open multiple connections	Default (False)	
Session Recording VPN/SSH/Gateway	Username format	No change -	
User Interface Information	Custom host port		
Jump Host	Undock maximized	Default (False) 👻	
Events Sub Connections	Automatically close session after	30 🌲 minutes	
Logs > Management Tools	IDs		
Advanced	ibs -		
	Database ID E51	39A45-8F3B-483D-93D4-89545D04888E	
	Data Source ID 88f:	18c20-2c2a-4ec7-a742-3658cb2109be	
	Session ID f81:	39660-0 1ac-47f5-b388-2a58908f309f	
	Command line "C:\	Dev\Devolutions\RemoteDesktopManager\Program\bin\DebugAny\RemoteDesktopManager.exe*/DataSou	rce:8 👔
	Creation source	···· X	
RDP (Microsoft Remote Desktop)  Configured			
Configured -			
Wariables	Search property	Create another OK	Cancel

RDP Session - Advanced Section

Here is a list of types of Reports you can find in Remote Desktop Manager and the name to enter in the command line to generate the report:

Usage Log	SharedConnectionLog
Entry Information	EntryInformation
Expiration Schedule	CalendarExpiredEntry
Expired Entry List	ConnectionExpiredEntry
Expired Passports	ConnectionExpiredPassports

	REPORT NAME (TYPE) TO INSERT IN THE COMMAND LINE
Expired Softwares	ConnectionExpiredSoftwares
Expired Warranties	ConnectionExpiredWarranties
Entry Status	ConnectionStatus
Credential Entry References	CredentialEntryUsage
Entry Validity Report	EntryValidity
VPN References	VPNEntryUsage
Entry List	Connection
Duplicate Entries	DuplicateEntry
Password Complexity	PasswordComplexity
Password Analyzer	PasswordAnalyzer

Here is an example of a command line for an Entry Information Report: C:\Program Files (x86)\Devolutions\Remote Desktop Manager\RemoteDesktopManager.exe /D /reportoutput:C:\dev\devolutions\Rapport\rapportEntry.csv /reportsettings:C:\dev\devo

#### 6.7.2.2 Deleted Entries

## DESCRIPTION

The *Administration* – *View deleted* option allows you to view the deleted entries as well as restoring them.

This feature requires an <u>Advanced Data Source</u>.



Administrators can permanently delete some or all deleted entries.



Sub-connections are not retained in the View Deleted window. To restore a sub-connection, please have a look at Entry History.

## SETTINGS

### MANAGE DELETED ENTRIES

The **Deleted Entries** will generate a list containing all the entries previously deleted from your data source. You may resurrect an entry, meaning it will become an active entry again and will be shown in your data source. You may also chose to permanently delete your entries, once you have permanently deleted your entries you won't be able to resurrect them afterward.

	ttop Manager - De	leted Entries						
🔟 Dele	ted Entrie	S						
Name	[	Test - Copy		Action	Delete			
Connection type		IE		Group	Enterprise \Sessions \	Web		
Username		DEVOLUTIONS\jmajeau		Created on	4/16/2019 3:42 PM			
Data source use	er .	sa		Modified on	6/18/2019 1:41 PM			
								-
Action	Session Type	Name	Folder	Created On	Modified On 👻	Username	Logged User	1
	Session Type IE	Name Test - Copy	Folder Enterprise\Sessi	Created On 4/16/2019 3:42 PM	Modified On -	Username DEVOLUTIONS\jmajeau	Logged User sa	
Delete		Test - Copy						
Delete Delete	IE	Test - Copy DEVOLUTIONS178	Enterprise \Sessi	4/16/2019 3:42 PM	6/18/2019 1:41 PM	DEVOLUTIONS \jmajeau	sa	
Delete Delete Delete	IE RDP (Microsoft .	Test - Copy DEVOLUTIONS178 Lastpass - training@devolu	Enterprise \Sessi	4/16/2019 3:42 PM 6/17/2019 6:09 PM	6/18/2019 1:41 PM 6/17/2019 6:09 PM	DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau	sa sa	
Delete Delete Delete Delete	IE RDP (Microsoft . Credential Entry	Test - Copy DEVOLUTIONS178 Lastpass - training@devolu 1Password	Enterprise \Sessi Enterprise \Sessi Enterprise \Sessi	4/16/2019 3:42 PM 6/17/2019 6:09 PM 6/17/2019 1:02 PM	6/18/2019 1:41 PM 6/17/2019 6:09 PM 6/17/2019 2:10 PM	DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau	sa sa sa	
Delete Delete Delete Delete Delete	IE RDP (Microsoft . Credential Entry Credential Entry	Test - Copy DEVOLUTIONS178 Lastpass - training@devolu 1Password	Enterprise \Sessi Enterprise \Sessi Enterprise \Sessi Enterprise \InfoT	4/16/2019 3:42 PM 6/17/2019 6:09 PM 6/17/2019 1:02 PM 6/17/2019 1:19 PM	6/18/2019 1:41 PM 6/17/2019 6:09 PM 6/17/2019 2:10 PM 6/17/2019 2:10 PM	DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau	sa sa sa sa sa	
Delete Delete Delete Delete Delete Delete	IE RDP (Microsoft . Credential Entry Credential Entry Credential Entry	Test - Copy DEVOLUTIONS178 Lastpass - training@devolu IPassword test	Enterprise \Sessi Enterprise \Sessi Enterprise \Sessi Enterprise \InfoT	4/16/2019 3:42 PM 6/17/2019 6:09 PM 6/17/2019 1:02 PM 6/17/2019 1:19 PM 6/17/2019 1:19 PM	6/18/2019 1:41 PM 6/17/2019 6:09 PM 6/17/2019 2:10 PM 6/17/2019 2:10 PM 6/17/2019 2:10 PM	DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau	sa sa sa sa sa sa sa	
Action Delete	IE RDP (Microsoft . Credential Entry Credential Entry Credential Entry VPN	Test - Copy       DEVOLUTIONS178       Lastpass - training@devolu       1Password       test       test	Enterprise \Sessi Enterprise \Sessi Enterprise \Sessi Enterprise \InfoT Enterprise \Sessi	4/16/2019 3:42 PM 6/17/2019 6:09 PM 6/17/2019 1:02 PM 6/17/2019 1:19 PM 6/17/2019 1:19 PM 6/17/2019 1:2:30 PM 6/13/2019 1:35 PM	6/18/2019 1:41 PM 6/17/2019 6:09 PM 6/17/2019 2:10 PM 6/17/2019 2:10 PM 6/17/2019 2:10 PM 6/17/2019 12:30 PM 6/13/2019 1:36 PM	DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau DEVOLUTIONS\jmajeau	58 58 58 58 58 58 58 58 58	

Deleted Entries

Delete	Permanently delete the selected entry.
Resurrect Entry	Use this button to restore an entry.
Delete All	Permanently delete all the deleted entries.
Delete All	Permanently delete all the deleted entries.



Deleted entries can be resurrected as long as the <u>Security Provider</u> has not been changed since the deleted action.

## **EXPORT DELETED ENTRIES LIST**

You can use the **Right-click** button on one or several lines to export them in CSV, HTML or XML format.

- 6.7.3 Settings
- 6.7.3.1 Vault Settings
- 6.7.3.1.1 Default security for entries

# DESCRIPTION

In the Vault settings, navigate to the **Permissions** section. Under **Inherited Permissions**, change the **Permission** drop down list to the desired settings.

- Custom allows to select specific user groups/users for each permission below.
- Never denies any access to all users.

🔳 🎤 mote Desktop Manage	er - Vault Settings		o x
着 Vault Setti	ngs		
General Permissions Password Management Security Settings Session Recording	Root Add in root Root properties	Data source (Allowed)	
Documentation User Interface Settings	Inherited Permissions Permission	Custom	
	General Security View Add	Attachments     Documentation     Information     More       Default (Allowed)     •	
	Edit Delete	Default (Allowed) -	
	View password Connect (Execute)	Default (Disallowed) - Default (Allowed) -	
	Search proper	erty 💦 OK	Cancel

Vault – Permissions

To confirm the change, edit an entry below the Vault and navigate to the **Security** – **Permissions** section. All permissions set to **Default** inherit the value from Data Source Permissions (System Permissions) or the user. Inherited values are displayed next to the permissions.

#### 6.7.3.2 System Settings

6.7.3.2.1 General

## **GENERAL**

The **General** section allows to manage the availability of different features related to the database.

Remote Desktop Manager - System Settings  System Settings  General Favorites  General
Favorites
Private Vault   Security   System Message   User Template   Password Management   Password Templates   Forbidden Password   Allow sub connections   Default   Password Validation   Custom User   Custom Variables   Paths   Serial Number   Type Settings   Type Settings   Type Settings   File Size   File Size   Maximum file size (MB)   25 ‡ This setting applies to documents and attachments
View History Search property 🕅 Version 2019.1.30.0 OK Cancel

System Settings - (	General
---------------------	---------

Allow user Specific Settings	Allow users to save <u>User Specific Settings</u> .
Allow database clean up	Allows logs and deleted history to be cleaned up. For more information, please consult the <u>Clean up</u> topic.
Allow shortcuts	Allow the reiteration of entries through the shortcut feature.
Allow entry states (Lock, Running, Checkout)	Allow entries to be locked when used or edited.

	DESCRIPTION				
Allow virtual folders	Allow to store entries in virtual folders. (Not supported with Devolutions Server.)				
Automatic check in after	rces checked out entries to check in automatically after a t delay.				
Allow sub connections	llow users to create sub connections.				
Add entry mode	Select if users are prompted to choose a template when creating a new entry. Select between:  • Default  • Template list (include default)				
	Template list only				
	No template selection				

Allow log comments editing	Enable the log comment editing for all users.			
Minimum length (char)	Set the minimum length (in characters) allowed for comments.			
Maximum file size (MB)	Limit the size of attachments and document entries to avoid to over load the data source.			

6.7.3.2.1.1 Security

# SETTINGS

Remote Desktop Manager - System Settings				
🤤 System Setti	ings			
<ul> <li>General Favorites Private Vault</li> <li>Security</li> <li>System Message User Template</li> <li>Password Management Password Templates Forbidden Password</li> <li>Password Validation Custom User</li> <li>Applications Offline Custom Variables Paths Serial Number Type Settings Type Availability Version Management Advanced</li> </ul>	General       Image: Create vault with restricted access by default       Use legacy security         Force data source 2-factor configuration       Image: Resolve credentials in overview         Time-Based Usage       Image: Resolve credentials in overview         Time       Any day       Image: Resolve credentials in overview         Time       Any day       Image: Resolve credentials in overview         Time       Any time       Image: Resolve credentials in overview         Time       Resolve credentials in overview       Image: Resolve credentials in overview     <			
View History	Search property Property OK C	Cancel		

System Settings - General - Security

Create Vault with restricted access by default	Automatically secure the Vault settings when creating a repository. Therefore, the permissions settings are set to <b>Never</b> .
Force data source 2- factor configuration	Require the users to have a <u>2-factor configuration</u> applied on the data source. Not shown with Devolutions Server as 2FA set elsewhere.
Resolve credentials in overview	Displays username and password fetched from a Credential repository in the entry overview in the dashboard. Uncheck this option if it takes too long to resolve.

Use legacy security	Use the old system of managing privileges: security groups.
Time of day	<ul> <li>Select the hours which the data source is limited to.</li> <li>Select between:</li> <li>Any time: the session can be used at any hour.</li> <li>Custom: manually select the time frame the session is available for.</li> </ul>
Time of week	<ul> <li>Select which days the data source is available for. Select between:</li> <li>Any day: the session can be used any day of the week or week-end.</li> <li>Week days: the session can be used only the week days.</li> <li>Week ends: the session can be used only the week ends.</li> <li>Custom: manually select each day the session is available for.</li> </ul>
Time Zone	Select the time zone you are currently in.

6.7.3.2.1.2 Allow Password Access From External System

# DESCRIPTION



This feature is only available when using an <u>Advanced Data Source</u>.

Accessing passwords stored in your data source by querying the underlying database is not possible because of the encryption we apply on the passwords. For those of you that need to access passwords directly in the database, for example by a CRM system, we have created a way to achieve this.

## SETTINGS

The session information, which is an XML structure, is stored in the **Data** field of the **Connections** table in the underlying database.

However, getting the encrypted password from the database requires the **Allow password for external system** to be configured.

🔲 Remote Desktop Manager	Remote Desktop Manager - System Settings				
🤤 System Setti	ngs				
<ul> <li>General         <ul> <li>Favorites</li> <li>Private Vault</li> <li>Security</li> <li>System Message</li> <li>User Template</li> </ul> </li> <li>Password Management</li> <li>Password Validation</li> <li>Custom Validation</li> <li>Custom User</li> <li>Applications</li> <li>Offline</li> <li>Custom Variables</li> <li>Paths</li> <li>Serial Number</li> <li>Type Settings</li> <li>Type Availability</li> <li>Version Management</li> </ul> <li>Advanced</li>	General         Password history       5 \$ items         Password strength calculator       Default         Allow password for external system         Advanced         Disable password saving (shared)         > Disable password saving (tools)         Disable password saving (user specific settings)         Disable password saving (user specific settings)         Disable password variable for all sessions         > Allow reveal password for administrator and authorized users (Ctrl+Alt+Enter)         Allow password in macro (send keys)         Allow data source username variable         Allow data source password variable         Allow data source password variable				
View History	Search property 🕴 Version 2019.1.30.0 OK Ca	ncel			

Password Policy - Allow Password For External System

Enter an encryption key in the **Key** field. Once a key is provided it will cause the system to extract a copy of the password from our XML structure, this will then be re-encrypted

using the **key** you have provided and stored back into the **UnsafePassword** field of the **Connections** table.

🔲 Rem	ote Desktop Manager - Security Provider - 🗆 🗙
<b>)</b> }}	Security Provider
Key	Edit By entering an encryption key, the password will be saved in the database in the field UnsafePassword View C# Decryption code
	Close

Security Provider

## **DECRYPTION CODE**

```
Use the following .net code to decrypt your passwords.
 public static string Decrypt(string encryptedString, string key)
 {
 if (string.IsNullOrEmpty(encryptedString))
 {
 return encryptedString;
 }
 try
 {
 TripleDESCryptoServiceProvider tripleDesCryptoServiceProvider = new TripleDESC.
 MD5CryptoServiceProvider cryptoServiceProvider = new MD5CryptoServiceProvider(
 string strTempKey = key;
 byte[] byteHash = cryptoServiceProvider.ComputeHash(Encoding.ASCII.GetBytes(st)
 tripleDesCryptoServiceProvider.Key = byteHash;
 tripleDesCryptoServiceProvider.Mode = CipherMode.ECB;
 byte[] byteBuff = Convert.FromBase64String(encryptedString);
 string strDecrypted =
 Encoding.UTF8.GetString(
 tripleDesCryptoServiceProvider.CreateDecryptor().TransformFinalBlock(
```

```
byteBuff, 0, byteBuff.Length));
 return strDecrypted;
 }
 catch (Exception)
 {
 return null;
 }
}
```

6.7.3.2.2 Application

## DESCRIPTION

The **Applications** section manages the availability of different features related to Remote Desktop Manager application.

🤤 System Settings					
General	Allow Access				
Vault	√ Windows	✓ Android	✓ Linux		
User Vault	✓ macOS	√ iOS			
Security	General				
System Message	✓ Allow local specific settings	Disa	ble quick connect		
Tags	Allow templates (local)		ble RDM Agent and Jump		
User Template	Disable entry drag-and-drop		ble stack trace		
	Disable default templates editing	l.			
Custom User	Password				
Password Management	Allow local password templates				
Password Policy	Disable password saving for dat	a source access			
Password Templates	Disable password saving (local)				
Forbidden Password	Welcome Page				
	Use web or html welcome page				
Password Validation			6	€	
Applications	C				
Applications	Security				
Offine	Force application security with V	Vindows credentials			
	Force application security with 0	oogle Authenticator			
Custom Variables	Disconnect data source	_	_		
Paths	✓ On minimize	On Windows lock	On go off	ine	
Serial Number	On idle	On standby			
Type Settings					
Type Availability		vailable when disconnecting			
•	✓ Automatically reconnect	t on activity			
View History Sear	ch property	· · · · · · · · · · · · ·		ОК	Cancel

	DESCRIPTION				
Operating systems	Enable access to the data source from the selected operating systems.				
	DESCRIPTION				
Allow local Specific Settings	Allow users to save Local Specific Settings.				
Allow templates (local)	Allows to locally save entry's templates.				
Disable entry drag- and-drop	Disable entries drag and drop from one folder to nother. This setting is useful for avoiding accidental lrag and drop.				
Disable quick connect	Disable the Quick Connect feature for all users of the data source.				
Disable RDM Agent and Jump	Disable the option to activate a session as an RDM Agent or Jump.				
Disable stack trace	Disable the stack trace details when an error occurs in Remote Desktop Manager. This is a security feature.				
	DESCRIPTION				
Allow local password templates	Allows password templates to be saved locally.				
Disable password saving for data source access	Prevent users to save or change the passwords stored in the data source configurations.				

Disable password saving (local)	Prevent users from saving passwords in the properties of entries.			
	DESCRIPTION			
Use web or html welcome page	Enter an URL to use as the application's welcome page.			
Force application security with Windows credentials	Require the users to authenticate with their Windows credentials at application startup.			
Force application security with Google Authenticator	Require the users to authenticate with <u>Google</u> <u>Authenticator</u> at application startup.			
Disconnect data source	<ul> <li>Set the application to lock:</li> <li>On Minimize: lock application when minimized in the taskbar for all users of the data source.</li> <li>On Idle: automatically lock the application when it is not used after a determined amount of time.</li> <li>On Windows lock: lock the application on Windows lock.</li> <li>On standby: lock the application when on standby.</li> </ul>			
Go into offline mode if available when disconnecting	Will switch RDM from online to offline mode if available when disconnecting.			

Automatically reconnect on activity	Instead of using the manual refresh button, after an idle time, activate the option to reconnect automatically.

6.7.3.2.2.1 Offline

# DESCRIPTION

🗐 Remote Desktop Manager - System Settings				
🤤 System Settin	gs			
<ul> <li>&gt; General</li> <li>&gt; Password Management</li> <li>✓ Applications</li> <li>Offline</li> <li>Custom Variables</li> <li>Paths</li> <li>Serial Number</li> <li>Type Settings</li> <li>Type Availability</li> <li>Version Management</li> <li>Advanced</li> </ul>	Prompt f	Expiration     9      Days     Days     or credentials before going offline     mot for credentials will not be respected when the     er login mode is Integrated Security (Active Directory)     for 2FA before going offline     mot for 2FA before going offline will not work without     ernet access if your 2FA requires it.		
View History	Search property	Version 2019.1.30.0 OK Cancel		

Offline mode	Set the global data source <u>Offline Mode</u> availability. The offline mode is useful when using a VPN connection that makes using local network impossible.
Expiration	Number of days before the offline cache expires. You must go online prior to the end of that period to re-validate the data.

Prompt for credentials before going offline	Force the user to provide their credentials before going offline.
Prompt for 2FA before going offline	Force the user to provide their 2FA before going offline.



It is not recommended to set the **Expiration** to 0, as this will disable the expiration of the offline cache.

6.7.3.2.2.2 Serial Number

# DESCRIPTION

Store an Enterprise Edition Site or Global *License* serial to share in the data source.



When you add a data source with a saved serial in an unregistered version of Remote Desktop Manager, the license serial is automatically retrieved from data source settings.

## **SETTINGS**

You can manage your licenses through a shortcut in *Administration - System settings - Serial Number*.

Remote Desktop Manager - System Settings			×
😂 System Settings			
General Serial Number			_
Vault Manage Licenses			
Private Vault			
Security			
System Message			
Tags			
User Template			
Custom User			
Password Management			
Password Policy			
Password Templates			
Forbidden Password			
Password Validation			
Applications			
Applications			
Offline			
Custom Variables			
Paths			
Serial Number			
Type Settings			
			_
View History Search property	ОК	Cano	el

System Settings - Serial Number

Remote Desktop Mana		Aanagement					
Management		License 🖋 🌡 🗙 💭					
P Licenses	Image	Name	<u>n</u>	Description		Is Activ	
					1 User	<	
						Close	e

User and Security Management - Add License

6.7.3.2.2.3 Type availability

# SETTINGS

🔲 Remote Desktop Manager -	System Settin	js			×
🤤 System Setti	ngs				
General     Password Management     Applications     Offline	General —	Session	1		
Custom Variables Paths Serial Number	Ē	Information	]		
Type Settings Type Availability		Contact	]		
Version Management Advanced		Folder			
	٩	Credential Entry	]		
	<b>E</b>	Synchronizer	]		
	0	VPN			
	\$	Macro/Script/Tool	]		
	0	Application Tool			
View History	Search proper	ty A	Version 2019.1.30.0	ОК	Cancel

System Settings - Types - Availability

Type Availability	Select entry types to exclude. Excluded entries will not be in the <b>Add New Entry</b> window.

6.7.3.2.2.4 Version Management

## DESCRIPTION

The **Version Management** allows the administrators to manage the data source availability in other versions of Remote Desktop Manager.

## WINDOWS AND MACOS

Remote Desktop Manager	Data Source Settings	×
😝 Data Source	Settings	
✓ General Favorites Private Vault Security System Message User Template	Windows - Remote Desktop Manager         Minimal version         Current         Minimal version custom message	q
<ul> <li>Password Management</li> <li>Password Templates</li> <li>Forbidden Password</li> <li>Password Validation</li> <li>Custom User</li> </ul>	Maximal version Current Maximal version custom message	
<ul> <li>✓ Applications</li> <li>Offline</li> <li>Custom Variables</li> <li>Paths</li> <li>Serial Number</li> <li>Type Settings</li> </ul>	Disable auto update notification Download URL Mac - Remote Desktop Manager	
Type Availability Version Management Advanced	Minimal version Minimal version custom message	Ś
	Maximal version Maximal version custom message	
	Disable auto update notification Download URL	
View History	Search property	OK Cancel

Version Management

Minimal version	Forces users of the data source to use a minimal version of Remote Desktop Manager. Enter the entire version number (2019.1.0.0) to force a specific version. Use this to disable connecting to the data source with an older version.
Minimal version custom message	Enter a custom message for the minimal version notification.
Maximal version	Forces users of the data source to use a maximal version. Enter the entire version number (2019.1.0.0) to force a specific version. Use this to disable connecting to the data source with a newer version.

Maximal version custom message	Enter a custom message for the maximal version notification.
Disable auto update notification	Disable the auto update notification message. Use this to manually update the application and prevent from getting notified when new versions are available.
Download URL	Use in conjunction with the minimal or maximal version, once a minimal or maximal version requirement is not met the system will prompt the user that the version is no longer valid and it will open the link (path/URL) to download the newer or older version.

#### 6.7.3.3 System Permissions

## DESCRIPTION

The **System Permissions** allows to grant some administrative permissions to standard users without making them administrators. The **Default** setting inherits the permission set on the user or user groups. For more information about permissions, consult General Security.



This feature is only available when using an Advanced Data Source.

#### **ENTRIES**

Commands	473
----------	-----

Remote Desktop Manager - S	System Permissions		
窅 System Peri	missions		
Vault	Import	Never	
Entries	Export	Default (Disallowed)	
	Add in root	Default (Allowed)	
Miscellaneous	Vault settings	Default (Disallowed)	
Tools			
Templates			
Administration			
Management			
Grant Access			
		ОК	Cancel

System Permissions - Entries

Import	Allow users/user groups to import entries in the data source.
Export	Allow users/user groups to export from the data source.
Add in root	Allow users/user groups to create entries in the root folder.
Vault settings	Allow users/user groups to access the Vault properties.

## **MISCELLANEOUS**

Remote Desktop Manager - System Permissions				×
宿 System Permis	ssions			
Vault	Activity logs	Default (Disallowed)	•	
Entries	Reports	Default (Disallowed)	*	
	Deleted entries	Default (Disallowed)	•	
Miscellaneous	Administration logs	Default (Disallowed)	•	
	Check in (force)	Default (Disallowed)	~	
Tools	Flag as closed	Default (Disallowed)	~	
Templates				
Administration				
Management				
Crant Access				
			ОК	Cancel

System Permissions - Miscellaneous

	DESCRIPTION
Activity logs	Allow users/user groups to view the activity logs.
Reports	Allow users/user groups to generate and view reports.
View deleted entries	Allow users/user groups to view and restore deleted entries.
View administration logs	Allow users/user groups to view the administration logs.
Check in (force)	Allow users/user groups to check in entries with the checked out state.

## TOOLS

Remote Desktop Manager - Sys	tem Permissions			×
🍘 System Perm	issions			
Vault	Console management tools	Default (Allowed)	•	
Entries	Built-in tools (Wake On Lan, NetStat, Ping,)	Default (Allowed)	•	
	Macro/Script/Tool entry	Default (Allowed)	•	
Miscellaneous	Remote tools	Default (Allowed)	•	
Tools	Web management tools	Default (Allowed)	*	
Templates				
Administration				
Management				
Grant Access				
			ОК	Cancel

System Permissions - Tools

Console management tools	Allow users/user groups to use console management tools.
Buit-in tools (Wake-on-LAN, NetStat, Ping,)	Allow users/user groups to use session related tools.
Macros/Scripts/To ols entry	Allow users/user groups to use Macros/Scripts/Tools entries.

Management Tools	Allow users/user groups to use Management Tools.
Web management tools	Allow users/user groups to use web management tools.

### MANAGEMENT

The <b>Default</b> value in <b>Tools</b> is equivalent to <b>Never</b> .			
Remote Desktop Manager			×
Vault	Users	Default (Disallowed)	
Entries	Vaults	Default (Disallowed)	
	User groups	Default (Disallowed)	
Miscellaneous	Licenses	Default (Disallowed)	
Tools	Systems settings	Default (Disallowed)	
Templates			
Administration			
Management			
Grant Access			
		ОК	Cancel

System Permissions - Management

User	Allow users/user groups to access the user management.
Security Group	Allow users/user groups to access the security groups management.
User Groups	Allow users/user groups to access the user groups management.
Vault	Allow users/user groups to manage Vaults.
Data source settings (System Settings)	Allow users/user groups to access data source settings.
Template	Allow users/user groups to create and manage templates.
Password template	Allow users/user groups to create and manage password templates.

#### 6.7.3.4 Security Providers

### DESCRIPTION

The **Security Provider** allows for encrypting the data source content. To access the security provider, navigate to *Administration – Security Provider*.

This feature requires an Advanced Data Source.

1

Regardless of the selected security provider, passwords stored in data sources are **ALWAYS** encrypted using AES 256 bit encryption.

By using a security provider, you ensure that nobody can read entries configuration data, even when people have a direct access to the database(s) or a backup. Shared data sources should always be secured with a security provider especially Devolutions Online Database.



Prior to applying a new or changing an existing security provider, make sure that every users are disconnected from the data source. If you are changing an existing Shared Passphrase or Certificate, please note that users will get back access to the data source when they the new Shared Passphrase or Certificate on their computer.

# SETTINGS



Please note that changing a security provider on a data source with a great number of entries is a lengthy operation.



Applying a new security provider does process the whole database, therefore we advise you to create a backup prior to this operation.

1. Click on Change Security Settings to change the security provider.

	sktop Manager - Security Provider	_		×
Security type	Default <u>Change Security Settings</u> This is default security mode. The Xml is not encrypted by default. Please note that the passwords are always encrypted.		Close	

Security Provider

2. Select a security type from the drop down list.

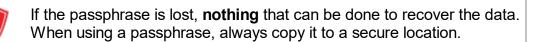
	sktop Manager - Security Provider			×
	curity Provider			
Security type	Default Shared passphrase (v2)	-		
1	Certificate note that the passwords are always encrypted.	_		
			Clos	se

Security Type

Default	This is the legacy security provider. The data is encrypted if the entry configuration is set accordingly in the advanced settings of the entries.

Shared passphrase	Set up a shared passphrase for the Security Provider.
Certificate	Set up a Certificate for the Security Provider.

## SHARED PASSPHRASE



	ktop Manager - Security Provider urity Provider	×
Passphrase		••
Confirm		Ø
	We won't be able to recover your data if you lose your passphrase. Please ensure that you remember or backup your passphrase in a safe place.	
	Save passphrase in registry	
	ОК	Cancel

Security Provider - Shared Passphrase

Entries configuration data is encrypted using a mix of a key stored in Remote Desktop Manager and the passphrase you've entered.

The passphrase is required only when configuring the data source. A policy can be enabled to always prompt for the passphrase when connecting to the data source. For more information, please consult the How to modify Group Policy Templates topic.

# CERTIFICATE

When choosing **Certificate** as Security Provider, entries configuration data is encrypted using a mix of a key stored in Remote Desktop Manager and the private key contained in the certificate.

🔲 Remote Des	ktop Manager - Certificate Security Provider	×
🥪 Cert	ificate Security Provider	
Location	Current user 👻	
Store	My -	
Thumbprint		
Certificates mu	ist have a private key in order to be shown	
Create Certif	cate OK	Cancel

Security Provider - Certificate

	DESCRIPTION
Location	Indicate the certificate location. Select between:  • Current user
	Local machine
Store	Indicate the store location of the certificate. Select between: <ul> <li>Address book</li> </ul>

	Authorization root
	Certificate authority
	Disallowed
	• My
	• Root
	Trusted people
	Trusted publisher
Thumbprint	Select an existing certificate.

### **CREATE CERTIFICATE**

It is possible to create a Self Signed certificate by clicking on **Create Certificate**.

🔲 Remote Desktop	Remote Desktop Manager - Self Signed Certificate — 🗆 🗙					×		
E Self Si	gned Certificate							
	le ce lle ce la					_		
Common name	localhost							
Key size (bits)	2048	*						
Valid from	6/12/2019	*						
Valid to	6/19/2029	*						
Save to file (of)	2							
Save to file (pf)	Q							
Password								
O Save to certific	ate store							
Location	Current user	Ŧ						
Store	Му	Ŧ						
					Save		Cano	e
					Jave		Cano	

Self Signed Certificate

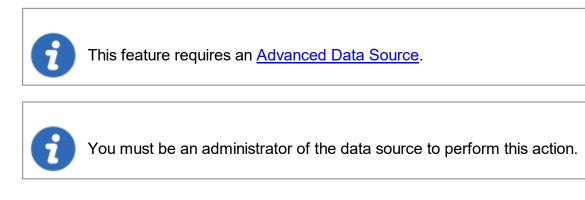
	DESCRIPTION
Common name	Name of the certificate.
Key size (bits)	• 384
	• 512 • 1024
	• 2048 • 4096

	DESCRIPTION
	• 8192
	• 16384
Valid from	Start date of the certificate.
Valid to	End date of the certificate.
Save to file (pfx)	Save the certificate as a pfx file and secure this certificate with a password.
Save to certificate store	Indicate the location and the store to save the certificate.

- 6.7.4 Clean up
- 6.7.4.1 Clean Up Deleted History

## DESCRIPTION

The **Deleted History** permanently delete entries that had been previously deleted. Full history is always preserved because every entry "version" is kept in historical tables.



#### SETTINGS

1. Select prior to which date you wish to permanently delete your deleted entries.

Remote Desktop Manager - Clean Up Deleted History			×
🥳 Clean	Up Deleted Histo	ry	
Delete everything p	ior to this date 5/20/2019	Ţ	
		OK Can	cel

Clean up Deleted History

2. Confirm your choice prior to permanently delete your deleted entries.

📑 Remo	te Desktop Manager	×
	It is recommended to backup your files before a clean up, proceed anyway	
	→ Proceed anyway	
	→ Back	
	Cancel	
	Confirmation window	



#### 6.7.4.2 Clean Up Entry History

#### DESCRIPTION

The **Entry History** deletes the history attached to your entry, you can find the history by right clicking on your entry and selecting *View – Entry history*.



You must be an administrator of the data source to perform this action.

## SETTINGS

1. Select prior to which date you wish to permanently delete your Clean up entry history.

Remote Desktop Manager - Clean Up Entry History		
🏹 Clean	Up Entry History	
Delete everything prio	or to this date 5/20/2019	•
		OK Cancel

Clean up Entry History

2. Another window will appear to confirm your choice of deleting all the history prior to the chosen date.

🔲 Remo	ote Desktop Manager	×
	It is recommended to backup your files before a clean up, proceed anyway	
	$\rightarrow$ Proceed anyway	
	$\rightarrow$ Back	
	Cancel	

Confirmation window

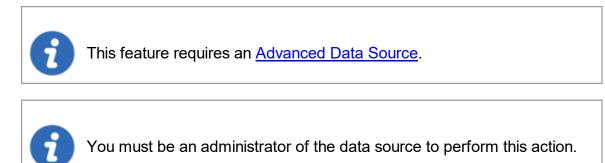


No History backup is created. We strongly recommend to do a <u>Backup</u> before proceeding.

#### 6.7.4.3 Clean Up Activity Logs

#### DESCRIPTION

The **Clean Up Activity Logs** will delete your data source's Activity Logs, you also have the option to clean up the **Administration logs** and set up a back up if desired.



## SETTINGS

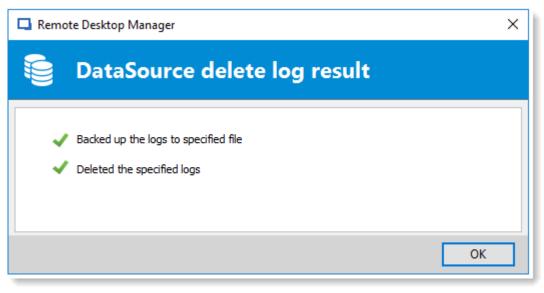
1. You must confirm your choice prior to permanently deleting your data source logs.

Remote Desktop Manager - Clean Up Activity Logs X					
🧧 Clean Up Activity Logs					
Delete Filter					
Delete everything prior to this date 5/20/2019		-			
<ul> <li>✓ All vaults</li> <li>✓ Include Administration Logs</li> </ul>					
Backup					
✓ Backup deleted logs to file (XML)					
Backup filename					
	ОК	Cancel			

Clean up Data Source logs

A backup of your log will be created as an XML file although it will then be impossible to import this file in Remote Desktop Manager.

2. Once you have entered your Backup file name and proceeded with the clean up a delete log result window will appear.



Data Source Delete log result

6.7.4.4 Pack Data Source (Optimize)

### DESCRIPTION

When holding a great number of entries in your data source it is a best practice to compress them to avoid slowness issues when using your data source. The **Data Source (Optimize)** will analyze all your entries, compress them and then re-saves them, thus saving space in your data source.

## SETTINGS

1. Open the data source you wish to optimize. In **Administration** click on **Pack Data Source (Optimize)** and then click on **Analyze**.

🔲 Remote Desktop Manager - Pac	k Data Source				×
😂 Pack Data Sour	ce				
Processing 139 of 139					
Optimized entries 1	Space saved 6				
ID	Name	Metadata	Message		^
00D7D5AE-348D-43EF-89A6-59087	Macro				_
00E95D72-6589-4DD0-9AF5-E2E391	SQL Serv - Admin				
01FA7CC3-8DB0-4EBD-ABE4-B35AB	Play List				
06278C55-0650-407D-9647-5062BC	Command Line (External Application)				
077FDB6F-A640-4045-B652-EB4A38	InfoTypes				
08C622A4-C2B0-4BE9-8343-E6D887	Serial Port				
0BC2963C-A135-4543-B471-2445F1	Apple Remote Desktop (ARD)				
0D98C6E3-08D0-4C6D-84CA-A0F1C	Synchronizer Results				
0FB9BB5B-2ECD-4B75-AA93-AD7FD	Microsoft Word				
10085505-6E3A-401E-A080-D80E8	Sections				¥
Loading raw data Analyzing [Default] (5750c34-453a-44be-9bc1-00491d6c20d7) Analyzing [Default] (5750c34-453a-44be-9bc1-00491d6c20d7) Analyzing [AnazonS3Test] (b343a6a5-2f4b-46e1-9fb3-06a227dkebc6) Analyzing [Mi-Fi Router] (fef42843-ce92-453d-b33b-0726bf4d000c) Analyzing [Add-ons] (58309cbc-ffb3-4ad3-a750-082e412bef71) Analyzing [Web] (63271c51-a11d-40da-8aff-09e95c336c0a) Analyzing [Web] (63271c51-a11d-40da-8aff-09e95c33c0a) Analyzing [Add-ons] (c5809cbc-ffb3-4ad3-a750-082e412bef71) Analyzing [Web] (63271c51-a11d-40da-8aff-09e95c336c0a) Analyzing [Meb] (63271c51-a11d-40da-8aff-09e95c33c0a) Analyzing [Add-ons] (c5809cbc-ffb3-4ad3-a750-082e412bef71) Analyzing [Meb] (63271c51-a11d-40da-8aff-09e95c33c0a) Analyzing [Meb] (63271c51-a11d-40da-8aff-09e95c33c0a)				<	
Index Maintenance V	ault Default	-	Optimize All	Analyze Clos	se

Pack Data Source (Optimize) - Analyze

2. Once the Analyze is completed click on **Optimize** to proceed with the optimization of your data source. You can select which **Vault** you wish to **Analyze** and **Optimize**, or use the **Optimize All** feature to perform the **Optimize** action on all available **Vaults**.

#### 6.8 Tools

#### DESCRIPTION

The *Tools* tab contains your Add-on and Extensions manager as well as your Devolutions Server Console, Generators and multiple useful tools.

+ 🥒	😋 🔁 🔍 🛛 Quick Conne	ct <host></host>	<del>~</del> … §	🖌 🔒 着 🎈			R
File H	ome Edit View	Administration	Tools Wind	ow Help			
(*)	🏀 SSH Key Generator	=	+9	> 20	<b>6</b>		💏 Extensions Manager
	😰 Certificate Generator						🐐 Macro/Script/Tool Manager
Password Generator	[•] Port Generator	Password My Inver Analyzer	itory Key Agent Manager	PowerShell Wayk (RDM CmdLet)	Now More Tools	Add-on Manager	Translation Manager
	Generators		То	ools			Managers

Ribbon - Tools

# GENERATORS

Password Generator	Opens the <u>Password Generator</u> window. You can use this to generate password according to pre-determined criteria for better security.
SSH Key Generator	Launches the <u>SSH Key Generator</u> . SSH keys provide a secure way of logging into a virtual private server with SSH than using a password alone.
Certificate Generator	Launches the <u>Certificate Generator</u> . With this you can create a self-signed certificate, which is an identity certificate that is signed by the same entity whose identity is certified.
Port Generator	Launches the <u>Port Generator</u> . With this you can generate ports for your connections.

## TOOLS

Password Analyzer	Opens the <u>Password Analyzer</u> . This is used to evaluate the strength of passwords stored in the data source. This feature is restricted to Administrators only.
My Inventory	Set up a My Inventory report.
Key Agent Manager	Opens the <u>Key Agent Manager</u> . This is used to hold all your SSH Keys in memory, already decoded and ready for them to be used.

PowerShell (RDM CmdLet)	Opens the PowerShell (RDM CmdLet).
Wayk Bastion	Launches the application.
More Tools	The <b>More Tools</b> window contains a variety of application tools such as: <u>Chocolatey Console</u> , <u>Local RDP/RemoteApp</u> <u>Manager</u> , <u>Playback (Ansi), RDM Agent</u> and more.

## MANAGERS

Add-on Manager	Opens the Add-on Manager. It is used to simplify the management of different add-ons.
Extensions Manager	Opens the Extensions Manager. This is used to simplify the management and installation of Web Browser extensions and other miscellaneous extensions.
Macros/Scripts/ Tools Manager	Opens the Macros/Scripts/Tools Manager. This is used to simplify the import of some pre-determined sessions tools.
Translation Manager	Opens the Translation Manager. A cloud based translation repository that is managed by an external application named Devolutions Localizer.

#### 6.8.1 Generators

6.8.1.1 Password Generator

## DESCRIPTION

The **Password Generator** is available in the **Tools – Password Generator** menu. It allows to create random passwords that are and difficult to interpret or predict, due to a mix of uppercase and lowercase letters, numbers and punctuation symbols.

You can also create password generator templates to generate passwords. After you have selected your mode and settings, you can then create your template.

#### MODE

#### DEFAULT

Customize all criteria you would want your password to have.

Template	Default	- + ×			
Mode	Default	······································			
Minimum uppe Minimum nume	rcase characters rcase characters rric characters				
Minimum symb	ols	1 ‡			
Minimum symb	vYq345t-	-i4z-24K	j2yD3A4-	^	Generate
4m78v-K			j2yD3A4- tv6nV-51	^	
4m78v-K L80dhI	xYq345t-	-i4z-24K			Generate Copy to Clipboard
4m78v-K L80dhI _y352cK	xYq345t- bj-F24C5	-i4z-24K 7j-62IPY	tv6nV-51		
	xYq345t- bj-F24C5 U6_7v06p	-i4z-24K 7j-62IPY 5D01s_yD	tv6nV-51 593WzZ_N		
4m78v-K -L80dhI _y352cK T6_o00m	xYq345t- bj-F24C5 U6_7v06p U10_Rz7u	-i4z-24K 7j-62lPY 5D01s_yD W_6et1S0	tv6nV-51 593WzZ_N 1wc_8sU6	×	

Password Generator - Default

# **ADVANCED SETTINGS**

Select the type and amount of characters to include in the password.

Commands	495
----------	-----

bG,2h67W7?-4 4?26y?c5-9ZC 0F%1/E967u-b 6#W506:-j3Sl	Password length       12 $\ddagger$ V Upper-case (A, B, C,)       2 $\ddagger$ Underline ()       0 $\ddagger$ High ANSI characters       0 $\ddagger$ V Lower-case (a, b, c,)       2 $\ddagger$ Space ()       0 $\ddagger$ XML Compliant         V Digits (0, 1, 2,)       5 $\ddagger$ V Special (!, \$, %, &,)       2 $\ddagger$ V Minus (-)       1 $\ddagger$ Brackets ([, ], {, }), (, ), <,	Template	Default		- + ×				
✓ Upper-case (A, B, C,)       2 ↓ Underline ()       0 ↓ High ANSI characters       0 ↓         ✓ Lower-case (a, b, c,)       2 ↓ Space ()       0 ↓ MIL Compliant         ✓ Digits (0, 1, 2,)       5 ↓ ✓ Special (!, \$, %, &,)       2 ↓         ✓ Minus (-)       1 ↓ Brackets ([, ], {, }, (, ), <, 0 ↓         Indude the following characters       0 ↓         Exclude the following characters:       0 ↓         3gY 16x4)-\9+       35&q6 %kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       A         Generate       0 ⊕       Copy to Clipboan       Copy to Clipboan         bG,2h67W77-4       4726y7c5-92C       0 F%1/E967u-b       6#WS06:-j3SI       —	✓ Upper-case (A, B, C,)       2 ‡ Underline ()       0 ‡ High ANSI characters       0 ‡         ✓ Lower-case (a, b, c,)       2 ‡ Space ()       0 ‡ XML Compliant         ✓ Digits (0, 1, 2,)       5 ‡ ✓ Special (!, \$, %, &,)       2 ‡         ✓ Minus (-)       1 ‡ Brackets ([, ], {, }, (, ), <, 0 ‡         Include the following characters       0 ‡         Exclude the following characters:       0 ‡         3gY 16x43-\9+       35&q6%X/U-83       10-02Q9W ^e8/       =71B5-6cA*s4       ^         .0&&2       #C26+F7W386       R15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         b6,2h67W7?-4       4?26y?c5-9ZC       0F%1/E967u-b       6#W506:-j3SI       Copy to Clipboard         y7=W67V-n@63       570Na^C\z45-       :2,-I4tw177G       uN6Qx19:47&       a         40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-       w         n2ZV #j030       #UXY9d\$902-9       xH3y20-5^\V6       99G9*n85-sD@       v	Mode	Advanced settings		-				
✓ Lower-case (a, b, c,)       2 ↓ Space ()       0 ↓ XML Compliant         ✓ Digits (0, 1, 2,)       5 ↓ ✓ Special (!, \$, %, &,)       2 ↓         ✓ Minus (-)       1 ↓ Brackets ([, ], {, }, (, ), <, 0 ↓         Indude the following characters       0 ↓         Exclude the following characters:       0 ↓         3gY 16x41-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4	✓ Lower-case (a, b, c,)       2 ↓ Space ()       0 ↓ XML Compliant         ✓ Digits (0, 1, 2,)       5 ↓ ✓ Special (!, \$, %, &,)       2 ↓         ✓ Minus (·)       1 ↓ Brackets ([, ], {, }, (, ), <, 0 ↓         Include the following characters       0 ↓         Exclude the following characters:       0 ↓         3gY 16x4J-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∧         0.88D-10490C       *#C26-F7W386       R15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         bG,2h67W7?-4       4?26y?c5-92C       0F%1/E967u-b       6#W506:-j3SI       Copy to Clipboard         y7=W67V-n@63       570Na ^C\z45-       :2,-I4hw177G       uN6Qx19:47&       40TK28@0-gs;       1:-X44,xe40q       w94C?6n9-3+P       7wT/n213L53-         n2ZYV#j030       #UxY9d\$902-9       xH3y20-5'^V6       99G9*n85-sD@       ▼	Password len	ngth	12 🗘					
✓ Digits (0, 1, 2,)       5 ‡ ✓ Special (!, \$, %, &,)       2 ‡         ✓ Minus (-)       1 ‡       Brackets ([, ], {, }, (, ), <, 0 ‡         Indude the following characters       0 ‡         Exclude the following characters:       0 ‡         3gY 16x4J-\9+       35&q6%kYU-83       I0-02Q9W^e8/       =71B5-6cA*s4       ^         .0&&=              3gY 16x4J-\9+       35&q6%kYU-83       I0-02Q9W^e8/       =71B5-6cA*s4       ^       Generate         .0&&=	✓ Digits (0, 1, 2,)       5 ‡ ✓ Special (1, \$, %, &,)       2 ‡         ✓ Minus (-)       1 ‡       Brackets ([, ], {, }, (, ), <, 0 ‡         Include the following characters       0 ‡         Exclude the following characters:       0 ‡         3gY 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∩         .0&2              3gY 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∩       Generate         .0&2                3gY 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∩        Generate         .0&8D-i049oC       *#C26+F7W386       R15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         bG,2h67W7?-4       4?26y?c5-9ZC       0F%1/E967u-b       6#W506:-j3SI        Copy to Clipboard         y7=W67V-n@63       570Na^C\z45-       :2,-I4hw177G       uN6Qx19:47&-           40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-           n2ZYV#j030       #UXY9d\$902-9       xH3y20-5'~V6	√ Upper-ca	ase (A, B, C,)	2 🗘 🗌	Underline (_)	0 🗘 High ANSI charae	cters	0	
✓ Digits (0, 1, 2,)       5 ‡ ✓ Special (!, \$, %, &,)       2 ‡         ✓ Minus (-)       1 ‡       Brackets ([, ], {, }, (, ), <, 0 ‡         Indude the following characters       0 ‡         Exclude the following characters:       0 ‡         3gY 16x4J-\9+       35&q6%kYU-83       I0-02Q9W^e8/       =71B5-6cA*s4       ^         .0&&=              3gY 16x4J-\9+       35&q6%kYU-83       I0-02Q9W^e8/       =71B5-6cA*s4       ^       Generate         .0&&=	✓ Digits (0, 1, 2,)       5 ‡ ✓ Special (1, \$, %, &,)       2 ‡         ✓ Minus (-)       1 ‡       Brackets ([, ], {, }, (, ), <, 0 ‡         Include the following characters       0 ‡         Exclude the following characters:       0 ‡         3gY 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∩         .0&2              3gY 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∩       Generate         .0&2                3gY 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∩        Generate         .0&8D-i049oC       *#C26+F7W386       R15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         bG,2h67W7?-4       4?26y?c5-9ZC       0F%1/E967u-b       6#W506:-j3SI        Copy to Clipboard         y7=W67V-n@63       570Na^C\z45-       :2,-I4hw177G       uN6Qx19:47&-           40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-           n2ZYV#j030       #UXY9d\$902-9       xH3y20-5'~V6	✓ Lower-ca	ase (a, b, c,)	2 1 9	Space ()	0 1 XML Compliant			
✓ Minus (-)       1 ↓       Brackets ([, ], {, }, (, ), <, 0 ↓         Include the following characters       0 ↓         Exclude the following characters:       0 ↓         3gY 16x4J-\9+       35&q6 %kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∩         Generate       0.8&D-1049oC       *#C26-F7w386       R15-7% 1j?V2p       0@c2g&TB-630       Copy to Clipboar         bG,2h67W7?-4       4?26y?c5-92C       0F%1/E967u-b       6#W506:-j3SI	✓ Minus (-)       1 ↓       Brackets ([, ], {, }, (, ), <, 0 ↓         Include the following characters       0 ↓         Exclude the following characters:       0 ↓         3gY 16x4J-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ∧         0.88D-1049oC       *#C26+F7W386       R15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         bG,2h67W7?-4       4?26y?c5-92C       0F%1/E967u-b       6#W506:-j3SI       Copy to Clipboard         y7=W67V-n@63       570Na ^C\245-       :2,-I4hw177G       uN6Qx19:47&       40TK28@0-gs;       1:-X44,xe40q       w94C?6n9-3+P       7wT/n213L53-       v         n22VV#j030       #UxY9d\$902-9       xH3y20-5'^V6       99G9*n85-sD@       v								
Include the following characters       0 \$         Exclude the following characters:       0 \$         3gY 16x4J-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ^       Generate         .0&&D       .0       .0       .0       .0       .0       .0       .0         .0&&D       .0       .0       .0       .0       .0       .0       .0       .0         .0&&D       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0	Include the following characters       0         Exclude the following characters:       0         3gY 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       ^         .0&80D-i049oC       *#C26+F7W386       R15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         bG,2h67W7?-4       4?26y?c5-9ZC       0F%1/E967u-b       6#W506:-j3Sl       Copy to Clipboard         y7=W67V-n@63       570Na^C\z45-       :2,-I4hw177G       uN6Qx19:47&-       1         40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-       v         n22YV#j030       #UXY9d\$902-9       xH3y20-5'^V6       99G9*n85-sD@       v								
Exclude the following characters:         Generate           3gY16x4J-\9+         35&q6%kYU-83         I0-02Q9W^e8/         =71B5-6cA*s4         A         Generate           .0&8D-1049oC         *#C26-F7w386         R15-7%1j?V2p         0@c2g&TB-630         Copy to Clipboar           bG,2h67W7?-4         4?26y?c5-92C         0F%1/E967u-b         6#W506:-j3SI         Copy to Clipboar	Exclude the following characters:       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       A       Generate         309Y 16x43-\9+       35&q6%kYU-83       10-02Q9W^e8/       =71B5-6cA*s4       A       Generate         0.0&BD-i049oC       *#C26-F7W386       R15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         bG,2h67W7?-4       4?26y?c5-92C       0F%1/E967u-b       6#W506:-j3Sl       Copy to Clipboard         y7=W67V-n@663       570Na^C\z45-       :2,-I4hw177G       uN6Qx19:47&-       40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-         n22YV#j030       #UXY9d\$902-9       xH3y20-5'^V6       99G9*n85-sD@       ¥	Minus (-)				0 -			
.0&8D-i049oC         *#Cz6-F7w386         R 15-7%1j?V2p         0@c2g&TB-630         Copy to Clipboar           bG,2h67W7?-4         4?26y?c5-9ZC         0F%1/E967u-b         6#W506:-j3Sl         Copy to Clipboar	.0&&D-1049oC       *#C26-F7w386       R 15-7%1j?V2p       0@c2g&TB-630       Copy to Clipboard         bG,2h67W7?-4       4?26y?c5-9ZC       0F%1/E967u-b       6#W506:-j3Sl       Copy to Clipboard         y7=W67V-n@63       570Na^C\z45-       :2,-I4hw177G       uN6Qx19:47&-       40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-       v         n22YV#j030       #UxY9d\$902-9       xH3y20-5'^V6       99G9*n85-sD@       v	Include the f	following characters					0 _	
bG,2h67W7?-4 4?26y?c5-9ZC 0F%1/E967u-b 6#W506:-j3Sl	bG,2h67W7?-4       4?26y?c5-9ZC       0F%1/E967u-b       6#W506:-j3SI       Copy to Clipboard         y7=W67V-n@63       570Na^C\z45-       :2,-I4hw177G       uN6Qx19:47&-         40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-         n22YV#j030       #UxY9d\$902-9       xH3y20-5'^V6       99G9*n85-sD@       Y							]	
	y7=W67V-n@63       570Na^C\z45-       :2,-I4hw177G       uN6Qx19:47&-         40TK28@0-gs;       1:-X44,Xe40q       w94C?6n9-3+P       7wT/n2!3L53-         n22YV#j030       #UXY9d\$902-9       xH3y20-5'^V6       99G9*n85-sD@	3gY 16x4J-\9+	- 35&q6%				^	Genera	te
	40TK28@0-gs; 1:-X44,Xe40q w94C?6n9-3+P 7wT/n2!3L53- n22YV #j030 #UxY9d\$902-9 xH3y20-5'^V6 99G9*n85-sD@ v	3gY16x4J-\9+ .0&8D-i049oC	- 35&q6% *#Cz6-F	-7w386	R15-7%1j?V2p	0@c2g&TB-630			
		3gY 16x4J-\9+ .0&8D-i049oC bG,2h67W7?-4	- 35&q6% *#Cz6-F ł 4?26y?c	=7w386 :5-9ZC	R15-7%1j?V2p 0F%1/E967u-b	0@c2g&TB-630 6#W506:-j3Sl			
n22YV #j030 #UxY9d\$902-9 xH3y20-5'^V6 99G9*n85-sD@ v	Perfect	3gY 16x4J-\9+ .0&8D-i049oC bG,2h67W7?-4 y7=W67V-n@6		=7w386 :5-9ZC C\z45-	R15-7%1j?V2p 0F%1/E967u-b :2,-I4hw177G	0@c2g&TB-630 6#W506:-j3Sl uN6Qx19:47&-			
Deeferst	i cicci	3gY 16x4J-\9+ .0&8D-i049oC bG, 2h67W7?-4 y7=W67V-n@6 40TK28@0-gs;	358q6% *#C26-F 4 4?26y?c 53 570Na^ 1:-X44,>	=7w386 :5-9ZC C\z45- Ke40q	R 15-7%1j?V2p 0F%1/E967u-b :2,-I4hw177G w94C?6n9-3+P	0@c2g&TB-630 6#W506:-j3Sl uN6Qx19:47&- 7wT/n2!3L53-			

Password Generator - Advanced Settings

## **READABLE PASSWORD**

Generate passwords that are readable but are not actual words.

Template Defa	ult	- + ×				
Mode Read	able password	*				
Syllables	4 🗘					
Numeric	4 ‡					
Symbols	0 ‡					
	v .					
ogyir 1Na 1xor 92	Ke0fiKuxa587	Yey8ju4zon6Vi0	xo8Povi9Be20	^	Generate	
jul5Docop1den84	Ga7VocaCa090	Nux6fazuq0ba62	xoGojziy0Ci769	Ļ	Copy to Clipboar	4
a8Cic6vapbak75	Ma4Kan6Zumlin93	we4bafcuCi918	giCorNup7Kiw131		Copy to Cipboar	u
uqid4xi5ga33	yegneyZa2bu362	du5Yo7ri0tur8	Rukzoh 1ne4cun53			
	wozRex8biZo321	xavma9ga3Tik80	Pi6za8dez5Ka3			
loXadVucQir2710			Roy2Viz6je0Wuq9	~		
-	Pax8Huje3ke59	zaJoj0Bove048	Reyznzojcomado			
-	Pax8Huje3ke59	zaJoj0Bove048	1072120300110405			
-	Pax8Huje3ke59	zaJoj0Bove048 Perfect	Royzniojcomago			
toXadVucQir2710 iupBu9zujuz697 ima   oscar   golf   yar		Perfect	ay   oscar   romeo   nine   two	<u>ــــــــــــــــــــــــــــــــــــ</u>		

Password Generator - Readable password

## **USE A PATTERN**

Press the **?** button and select any pattern you need to create the passwords, you can also exclude certain characters if desired. A list of the most recent used pattern will also be created.

📑 Remote	Desktop Manager - Password	Generator			×
🔅 Р	assword Generat	or			
Template	Default	- + ×			
Mode	Use a pattern	<b>.</b>			
Pattern	SAsAhHp				- 8
	Shuffle characters				
	e following characters:				
lz,7f9,	Ii+D09.	mn~k31;	QX(081,	^	Generate
(4\I2D,	v2?32B;	HA I4F;	=G?c92,		Copy to Clipboard
^p^A2E.	8Y:P33:	TV(kf9,	eh]mf6;		
}I\SbD,	KB{Y8C,	(h]360.	Hn-I19;		
[r}XbD,	>a}Q1B.	[p.M14:	.X]u1E;		
;B <o0d.< td=""><td>2m]mfB:</td><td>z9?Aa3.</td><td>(0.c6A,</td><td>~</td><td></td></o0d.<>	2m]mfB:	z9?Aa3.	(0.c6A,	~	
		Very Strong			
lima   zulu   c	omma   seven   foxtrot   nine   co	mma		<u>ـ</u>	
				v	Count 30 🗘
Forbidder	n Password				Close

Password Generator - Use a pattern

The following are supported patterns:

Lower-Case Alphanumeric	а	abcdefghijklmnopqrstuvwxyz 0123456789
Mixed-Case Alphanumeric	A	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefgh ijklmnopqrstuvwxyz 0123456789
Bracket	b	()[]{}<>
Lower-Case Consonant	С	bcdfghjklmnpqrstvwxyz
Mixed-Case Consonant	С	BCDFGHJKLMNPQRSTVWXYZ bcdfghjklmnpqrs tvwxyz

		SAMPLE
Digit	d	123456789
Lower-Case Hex Character	h	0123456789 abcdef
Upper-Case Hex Character	Н	0123456789 ABCDEF
Lower-Case Letter	I	abcdefghijklmnopqrstuvwxyz
Mixed-Case Letter	L	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefgh ijklmnopqrstuvwxyz
Punctuation	р	,. <u>;</u> .
Printable 7-Bit Special Character	S	!"#\$%&'()*+,/:;<=>?[\]^_{ }~
Printable 7-Bit ASCII	S	A-Z, a-z, 0-9, !"#\$%&'()*+,/:;<=>?[\]^_{ }~
Upper-Case Letter	u	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Upper-Case Alphanumeric	U	ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789
Lower-Case Vowel	V	aeiou
Mixed-Case Vowel	V	AEIOU aeiou
High ANSI	x	From '~' to U255 (excluding U255)

Upper-Case Consonant	Z	BCDFGHJKLMNPQRSTVWXYZ
Upper-Case Vowel	Z	AEIOU
Escape (Fixed Char)	١	Use following character as is
Escape (Repeat)	{n}	Repeats the previous character n times
Custom character	[x]	Define a custom character sequence

## PRONOUNCEABLE PASSWORD

Generate passwords that are pronounceable, but are not actual words.

🔲 Remote D	esktop Ma	anager - Password	Generator				×
🌮 Pa	sswor	d Generato	or				
Template	Default		- + ×				
Mode	Pronound	ceable password	-				
Minimum pass	word length	I	11 🗘				
Case mode			Mixed case		-		
Include the fo	llowing char	racters					
			✓ Digits (0, 1, 2,)				
			✓ More pronounceable				
Sty0Phe6Ki3		A6Kick9AVu0	Pre 1Ty2GiKy9	E0Se0HaRiSha2	^	Gene	erate
Rhezi 1RuPi4		U0Na9Thu9Yichi3	La0HITy6Que3	Ne9Mi7Re4Cy7	Ļ	Copy to (	Clipboard
Qui8Nu2KuChu	1	Na0Le8FiLe8	Vo0Ho7QuoDu9	Spu9Py0CiO1		Сору ш	Clipboard
Wro7BuHe2Gh	oma6	E0Gu9Sheck2	Myack4O7Su9	I4Ja0Te8OZi3			
Ye0Phy0CeQui	7	Va8Chi3XiFa2	A4No3Ju5IXey7	Ko6PhyNo7Thack7			
E3ThaPyeRay3	3	Wi1YixackU5	Ti6Sha7Shu0	RhycuckI2Go6	~		
			Perfect				
STEDD & L tang	e Luankee I		echo   six   KILO   india   three				
SIERRA   tang	o j yankee j	2210 PAPA [ Hotel ]	echo I six I KILO I india I diree		<u> </u>	Count	30 🗘
					Ŧ		
Forbidden F	Password						Close

Password Generator - Pronounceable password

# STRONG PASSWORD

Generate an 8 character passwords with alphanumeric and special characters.

Template D	efault	- + ×			
Mode S	trong password	-			
g 17QgH	d5M0Q8]s	"N6D3g7C	7LBi8Av]	^	Generate
UcP 93w	2aQ~rc2Q	4a6Li5%U	0E2947:J		Convite Clinhoord
6J{S0w8	m66yX,cO	31Ul8*mG	EXa67lB[		Copy to Clipboard
PwaWj3?	5euJ7aC]	Akz8DX6"	bzs]D96J		
.qpG645	T+K828uF	9B9vcRf[	BjXvU*28		
g6nPm\$7	y1G%MK76	j42czDB&	!KAdXI37	~	
		Very Strong			
		very Strong			

#### Password Generator - Strong password

#### 6.8.1.2 SSH Key Generator

## **DESCRIPTION**

SSH keys provide a secure way of logging into a virtual private server with SSH than using a password alone. While a password can eventually be cracked with a brute force attack, SSH keys are nearly impossible to decipher by brute force alone.

#### SETTINGS

🔲 Remote Desktop Mar	ager - SSH Key Generator — 🗆 🗡	<			
宿 SSH Key	Generator				
Key algorithm (	RSA ODSA				
Key size	1024 -				
Comment	username@hostname Generate	2			
	You can add this into OpenSSH's authorized keys file				
v6l6b2TRo7WdYVg6GMciVJ	AQABAAAAgQC/djD6Dv8P0eTWDVIK3XbSXrtwSXDuiAl107F9XeFNva/nT2e3QFBMSzrHa7c5 4TwcMIneufFlgsighKmj4uttvHbfUywoHXGIndDC1G99PC61wUKwOZ 9ztgD82ayrUQ== username@hostname				
MD5 Fingerprint	07:21:38:79:90:99:7a:3a:ee:36:29:fa:af:65:7a:a0				
SHA-1 Fingerprint	81:e6:4f:df:a4:4e:05:73:84:63:f5:31:37:e0:02:b5:f9:ff:dd:84				
Passphrase					
Confirm passphrase		]			
Load Private Key	Save Public Key Save Private Key				
	Close				

SSH Key Generator

Key algorithm	You can choose between: <b>RSA</b> : RSA can be used for signing/verification and also for encryption/decryption. When using RSA it is recommended to use a 2048 bits key size. <b>DSA</b> : It is faster in signing but slower in verifying. It can only be used for signing/verification it <u>does not</u> <u>encrypt/decrypt</u> . When using DSA it is a recommended to use a 1024 bits key size.
Key size	You can choose your SSH Key size between:

	DESCRIPTION
	<b>1024 bits</b> : Minimum key size <b>2048 bits</b> : Default and recommended key size
	4096 bits: Maximum key size
Comment	Enter your username and the name of the computer you're transferring your key to.
Load Private Key	This feature will allow you to import a previously saved SSH Key.
Save Public Key	Saving the public key will generate a *.pub file. Simply enter a file name when prompted.
Save Private Key	You will have the option of saving your Private Key in different format, choose between:
	• PKCS #8 Private Key (*.pri)
	<ul> <li>PuTTY Private Key (*.ppk)</li> </ul>
	OpenSSH Private Key (*.pri)

If you did not specify a passphrase you will have to confirm that you do not wish to use a passphrase.



#### 6.8.1.3 Certificate Generator

#### **DESCRIPTION**

The **Certificate Generator** allows you to create a self signed certificate which is an identity certificate that is signed by the same entity whose identity is certified.

# SETTINGS

🔲 Remote Desktop Manager - Self Signed Certificate — 🛛				×		
🔄 Self Sig	ned Certificate					
Common name	localhost					
Key size (bits)	2048	•				
Valid from	6/12/2019	•				
Valid to	6/19/2029	-				
<ul> <li>Save to file (pfx)</li> </ul>						
Password						
O Save to certificat	te store					
Location	Current user	r				
Store	Му	r				
			Save		Cance	el

Certificate Generator - Self Signed Certificate

Common name	Name of the certificate.
Key size (bits)	Indicates the key size (bits) of the certificate. Select between: • 1024 • 2048

	DESCRIPTION
	• 4096
	• 8192
	• 16384
Valid from	Starting date of the certificate.
Valid to	Expiration date of the certificate.
Save to file (pfx)	Save the certificate into a * <b>.pfx</b> file and secure this certificate with a password.
Save to certificate store	Indicate the location and the store to save the certificate.
Location	<ul> <li>Indicate the location of the certificate. Select between:</li> <li>Current user</li> <li>Local machine</li> </ul>
Store	Indicate the store location of the certificate. Select between: <ul> <li>Address book</li> <li>Authorization root</li> <li>Certificate authority</li> <li>Disallowed</li> <li>My</li> <li>Root</li> <li>Trusted people</li> </ul>

	Trusted publisher		
💽 Remote Deskt	op Manager - Self Signed Certificate		×
Eo Self S	Signed Certificate		
Store		Browse Store	
Thumbprint		View Certificate	
Private key		View Private Key	
		Close	2

Self Signed Certificate

	DESCRIPTION
Store	Indicate the store where the certificate will be located.
Browse Store	Browse the store that is indicated in the store field.
Thumbprint	Display the certificate thumbprint.
View Certificate	Display the certificate that you have created.
Private Key	Display the certificate private key

View Private Key	View the private key file on your computer.

6.8.1.4 Port Generator

## DESCRIPTION

The Port Generator allows you to generate ports for your connections.

# **SETTINGS**

🔲 Remot	Remote Desktop Manager - Port Generator						×		
ا ( <mark>ف</mark> )	Port	Gene	rato	r					
✓ Bound	laries				1024 🗘	То	655	35 🛟	
Includ	e well kno	wn ports		8					
Includ	e register	ed ports		0					
Includ	e ports us	sed by oth	iers sessi	ons					
1152	22961	36353	49608	62283				Generate	
4286	25033	38512	49617	62632				Copy to Clipboard	
6302	25893	39234	49954	64116					
10842	29762	44634	55373	64878					
14378	34577	45921	57001						
16419	35026	46615	58310						
20926	36136	49088	58744						
								Clos	e
						_	_		-

Port Generator

Boundaries	Determinate the port range to generate the ports between those 2 numbers.
Include well known ports	Include ports from range 0 to 1023. They are the well- known ports or system ports. They are used by system processes that provide widely used types of network services
Include registered ports	Include ports from range 1024 to 49151. They are assigned by IANA for specific service upon application by a requesting entity. On most systems, registered ports can be used by ordinary users.
Include ports used by others sessions	Include the ports that are already used by other sessions.

#### 6.8.2 Tools

6.8.2.1 Devolutions Localizer

## WHAT IS DEVOLUTIONS LOCALIZER?

Devolutions Localizer is our custom translation tool for our client applications.

So far, with the help of several generous and talented members of our community, Remote Desktop Manager has been translated from English to the following languages:

- Chinese (Simplified) Legacy
- Chinese (Traditional, Taiwan)
- Dutch
- French
- German
- Italian
- Polish
- Russian
- Swedish
- Ukrainian

# **GETTING STARTED**



An account is required to use the Devolutions Localizer. You can join our team and get started by signing up here: <u>https://devolutions.net/Home/Contribute</u>.

If you're interested in helping your fellow IT pros around the world, please sign up to be one of our wonderful contributors. Our Localizer app makes the process very efficient, and you can work at your own pace, and whenever you have time!

## **OVERVIEW**

From the **dashboard view** you get a quick progress overview, simply click the **"Translate**" button and start translating.

	ions Localizer -	Ping oll "Now" rock		ard changes		
File	Help	Bing all "New" reso	Acceptiblise	ard changes		
(200 Dashboard	K < 5 of 2170	Mark all as t	ranslated Save Changes Discard Cha	File BusinessResources.resx	: 🗸 🕐 Language German (de)	~
Status	Translated   Resource ActiveD	DirectoryDomainType_Custom				Translate
Original	Custom		German (de) Benutzerdef	îniert		Use Original
					resource	
Comment	Filters				(CTRL+B)	Previous Next
Comment <b>?</b> Filter	Filters Status <all></all>	∨ User <all></all>			(CTRL+B)	Next
		V User <all></all>	✓ Translated	Comment	(CTRL+B)	
Filter	Status <all></all>	1		Comment		Next
Filter itatus anslated	Status <ali>Name</ali>	Original	Translated	Comment	Modified By	Next Modified ( 12/12/201
Filter Status ranslated se original	Status <ali> Name A32bit</ali>	Original 32-bit	Translated 32-bit	Comment	Modified By Uwe Kredder	Next Modified (
Filter Status ranslated se original ranslated	Status <all> Name A32bit A64bit</all>	Original 32-bit 64-bit	Translated 32-bit 64-bit	Comment	Modified By Uwe Kredder Min Destens	Next Modified ( 12/12/201 11/1/2016
Filter tatus anslated se original anslated anslated	Status <all> Name A32bit A64bit ActiveDirectoryComputerType_All ActiveDirectoryComputerType_Server</all>	Original 32-bit 64-bit All	Translated 32-bit 64-bit Alle	Comment	Modified By Uwe Kredder Min Destens Schulz	Next Modified 12/12/201 11/1/2016 10/12/201
Filter itatus anslated se original anslated anslated anslated	Status <all> Name A32bit A64bit ActiveDirectoryComputerType_All ActiveDirectoryComputerType_Server</all>	Original 32-bit 64-bit All Server	Translated 32-bit 64-bit Alle Server	Comment	Modified By Uwe Kreckler Min Destens Schulz Min Destens	Next Modified 12/12/201 11/1/2016 10/12/201 7/2/2016
Filter Status ranslated se original ranslated ranslated ranslated ranslated	Status <all> Name A32bit A64bit A64bit ActiveDirectoryComputerType_All ActiveDirectoryComputerType_Server ActiveDirectoryCompariType_Custom</all>	Original 32-bit 64-bit All Server Custom	Translated 32-bit 64-bit Alle Server Benutzerde finiert	Comment	Modified By Uwe Krecker Min Destens Schulz Min Destens Stefan Sawatzki	Next Modified ( 12/12/201 11/1/2016 10/12/2016 3/22/2016 7/2/2016
Filter Status ranslated se original ranslated ranslated ranslated ranslated ranslated	Status <all> Name A32bit A64bit A64bit ActiveDirectoryComputerType_All ActiveDirectoryComputerType_Server ActiveDirectoryDomainType_LDAP</all>	Original 32-bit 64-bit All Server Custom LDAP My domain	Translated 32-bit 64-bit Alle Server Benutzerdefiniert LDAP	Comment	Modified By Uwe Kreckler Min Destens Schulz Min Destens Stefan Sawatzld Min Destens	Next Modified ( 12/12/201 11/1/2016 10/12/2016 3/22/2016 7/2/2016
🖣 Filter	Status <all>           Name         A32bit         A64bit         ActweDirectoryComputerType_All         ActweDirectoryComputerType_Server           ActweDirectoryComputerType_Server         ActweDirectoryComputerType_Data         ActweDirectoryComputerType_DAP           ActweDirectoryComputerType_MyDomain         ActweDirectoryCommatType_MyDomain         ActweDirectoryCommatType_MyDomain</all>	Original 32-bit 64-bit All Server Custom LDAP My domain	Translated 32-bit 64-bit Alle Server Benutzerdefinert LDAP Meine Domäne	Comment	Modified By Uwe Kreckler Min Destens Schulz Min Destens Stefan Sawatzki Min Destens Jens Enzensperger	Next Modified ( 12/12/201 11/1/2016 7/2/2016 7/2/2016 6/22/2015

**Devolutions Localizer** 

# **KEYBOARD SHORTCUTS**

Devolutions Localizer also features several keyboard shortcuts to speed up the translation process:

• CTRL+D: Mark current resource as "Translated".

- CTRL+E: Mark current resource as "Use original", this ignores any translation text and will display the original value as is.
- CTRL+DOWN: Next resource.
- CTRL+UP: Previous resource.
- CTRL+B: Request Bing translation for the current string.
- CTRL+S: Save all pending changes.
- CTRL+F: Enable/disable filtering.

#### 6.8.2.2 Password Analyzer

### DESCRIPTION



The information in this topic is how the "Legacy" mode of password analysis works. The mode can be changed in the System Settings for ZXCVBN . The "Legacy" mode is not the default mode.

The **Password Analyzer** evaluates the strength of passwords stored in the data source. To access the password analyzer, navigate to **Tools – Password Analyzer**. This feature is restricted to Administrators only.

A password analyzer control is also displayed under most password fields of entries.

General	Display	Local Reso	urces	Programs	Experience	Connection	Advanced	1
								I
₽₽		r					_	I
	Host		QA-JAF	F			Port	9
	RDP type		Normal			-		I
								I
	Username		John					I
		- [	John					I
	Domain							I
	Password	I [	•••••	•••••	••	Ø	O D	I
				P	erfect	Ø	2 months	I

Entry Properties - Password Field With Password Analyzer

The password analyzer follows a set of rules to determine the strength of the password with a score from 0 to 100. There are two categories of rules.

### REINFORCE

These are the rules which make the passwords stronger:

- The password length
- The number of uppercase letters (A-Z)
- The number of lowercase letters (a-z)
- The number of digits (0-9)
- The number of symbols (!, @, #, \$, etc.)
- The number of digits or symbols in the middle of the password
- Three or more of the rules above are met

The minimum requirements for a Strong password are:

- The password is at least 5 characters long
- The password contains uppercase and lowercase characters
- The password contains digits

#### WEAKENING

These are the rules which make the passwords weaker:

- The password contains only letters
- The password contains only digits
- The password has repeated characters
- The password has consecutive uppercase letters (two or more)
- The password has consecutive lowercase letters (two or more)
- The password has consecutive digits (two or more)
- The password has sequential letters (ABCD, DCBA)
- The password has sequential digits (1234, 4321)

# SETTINGS

ettings							
Show all		Show prive	ate vault				
Show VPN analysis		Show pwn	ed password analysis				
nalysis							
Name	▲ Folder	Username	Date	Since	Occurence	Password Strength	Password Length
Active Directory	Enterprise\Synchroni	administrator	1/14/2019 9:11 AM	6 months	2	Weak	7
Active Directory Console	Enterprise\Sessions\	administrator	12/19/2018 6:49 AM	7 months	2	Weak	7
BasicCred	Enterprise \Credentials	David	11/13/2018 10:45	7 months	4	Popular	6
CredPV		David	1/2/2019 11:16 AM	6 months	4	Popular	6
Email Account	Enterprise\InfoTypes	Email	11/13/2018 8:42 AM	8 months	1	Good	9
.ogin (Account)	Enterprise\InfoTypes	TestLaccount	11/13/2018 8:17 AM	8 months	2	Weak	13
.ogin (Web)	Enterprise\InfoTypes	TestLUsername	11/13/2018 8:35 AM	8 months	2	Weak	13
RDPTest	Enterprise \Sessions \		4/30/2019 9:17 AM	2 months	1	Weak	4
RDPTest - Copy	Enterprise\Sessions\	test	1/18/2019 3:19 PM	6 months	4	Popular	6
FeamViewer	Enterprise \Sessions \	845370611	12/19/2018 11:08	7 months	1	Good	6
test	Enterprise \Sessions \	test	2/5/2019 9:51 AM	5 months	1	Popular	4
Wi-Fi Router	Enterprise\InfoTypes		11/13/2018 8:45 AM	8 months	1	Good	13
Nindows Admin Center	Enterprise Sessions	david	2/5/2019 10:02 AM	5 months	1	Perfect	8

Tools - Password Analyzer

Show all	Shows you all the entries in your session, including those without password.
Show VPN analysis	Add the VPN Host column.
Edit 🖋	Open the current entry to edit it.
Forbidden Password	Create a list of prohibited passwords.
Export Settings	Export the password analyzer settings.

#### 6.8.2.3 Key Agent Manager

#### DESCRIPTION

The **Key Agent Manager** is used to hold all your SSH Keys in memory, already decoded and ready for them to be used. It has the same use as Pageant (SSH Key Manager) has for Putty except that the Key Agent Manager is used with Remote Desktop Manager.

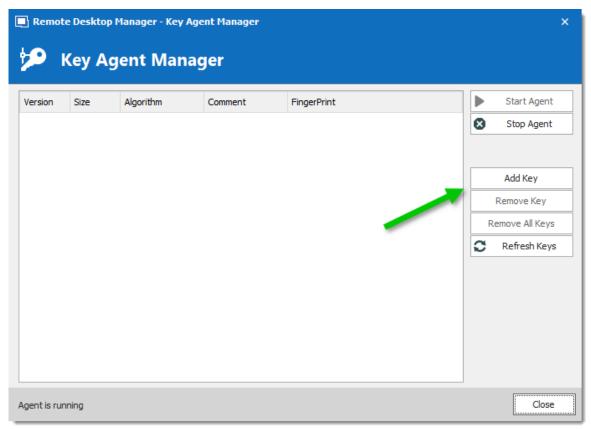
### SETTINGS

1. When opening the Key Agent Manager you will notice at the bottom right that the **agent is not running** you will need to click on **Start Agent**. If you wish to always have your Key Agent running you can activate the option in *File – Option – Key Agent – Start agent on application start*.

🔲 Remote Deskt	top Manager - Key Ag	ent Manager		×
🥍 Key /	Agent Mana	ger		
Version Size	Algorithm	Comment	FingerPrint	Start Agent
				Stop Agent
				Add Key
				Remove Key
				Remove All Keys
				C Refresh Keys
		,		
Agent is not running				Close

Key Agent Manager - Start Agent

2. Click on Add key and select the file to open your SSH key.



Key Agent Manager - Add Key

3. All your added SSH Key will appear in your Key Agent Manager.

4. In your SSH Shell Session in the **General** tab enter a Username and leave the Password field blank.

Remote Desktop Manager [Default	0		×
General More Permissions Password Management Security Settings Session Recording VPN/SSH/Gateway User Interface Information Events Sub Connections Logs > Management Tools Advanced	Name       Still         Folder       Enterprise'Sessions'Remote Connections          Display       Embedded (tabbed)       •         Credentials       Default       •         General       Private Key       Proxy       SSH Gateway (jump Host)       Post login       Before Disconnect       Terminal       Keyboard       X11 Forwarding         SSH       Host       Port       Default       ©         Username       Test       Password       ©       ©	4	•
SSH Shell	Always ask password Password prompt string Use smartcard (x64 only) Certificate method CAPI -		
Variables	Search property Create another OK	Can	cel

SSH Shell session - General Tab

5. In the **Private Key** tab of your SSH Shell session leave the option for the Private Key to **No Private Key**.

🔲 Remote Desktop Manager [Default	]									×
General More Permissions Password Management Security Settings Session Recording VPN/SSH/Gateway User Interface Information	Name Folder Display Credentials	Enterprise\Sec Embedded (ta Default	ssions'Remote Connections bbed) •		* I off	<u>Has</u>				
Sub Connections Logs () Management Tools Advanced SSM SSH Shell	General Private K Private Vault Passph File	key type	SSH Gateway (jump Host) No private key	Post login	Before Disconnect		Keyboard • • • • • • • • • • • • • • • • • • •	X11 Forwarding	4	
Variables	Search property		n		Create	another		ОК	Can	cel

SSH Shell session - Private Key Tab

6. In the **Advanced** tab of your SSH Shell session activate the option **Use Agent**. The Use Agent automatically take the information of the SSH Key kept in your Key Agent Manager.

🔲 Remote Desktop Manager [Defaul	1							C	ו	×
General More Permissions Password Management Security Settings Session Recording VPN/SSH/Gateway User Interface Information	Display	interprise \Sessions \Remote imbedded (tabbed) Default	Connections	•	💽 of	f				
Lintornation Events Sub Connections Logs > Management Tools Advanced	Disconnec Mouse clic Enabl Skip e Use S Allow	orotocol e authentication in terminal et action dx mode le TCP keepalives environment variable setup SSH authentication agent fielogging val		tt Terminal Default Default Default Default Default Default Default Enable GSS AP Second Seco	I credential de		Advanced		4	P
Variables		n			Crea	te another		ок	Cance	el

SSH Shell session - Advanced

### **PRIVATE KEY CREDENTIAL**

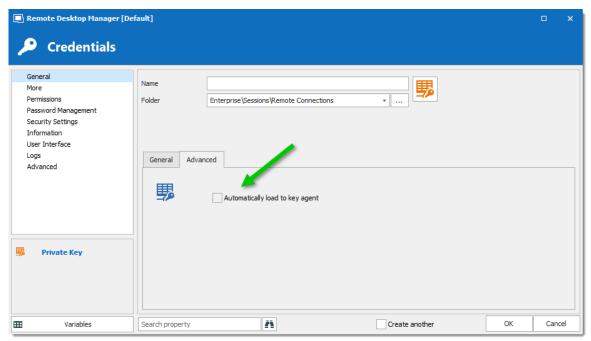
When creating new Private Key credential entry in Remote Desktop Manager you have the option of loading them automatically in your Key Agent Manager.

1. Create your new Private Key credential.

🔲 Remote Desktop Manager - Add New Entry	Remote Desktop Manager - Add New Entry ×				
+ Add New Entry					
General	<search></search>		0		
Contact Credențial Entry Docume	Username / Password	Connection String			
Folder Synchroniter VPN	Private Key	One-Time Password (OTP)			
Macro/Script/Tool Miscellaneous	External		-		
	Windows Credential Manager	••••  LastPass			
	1Password     Password Safe	KeePass			
	Passwordstate	Pleasant Password Server			
	Password Manager Pro	AuthAnvil Password Server	~		
Add-On Manager		ОК	Cancel		

New Credential Entry - Private Key

2. In the **Advanced** tab of your Private Key entry activate the option **Automatically load to key agent.** 



Private Key - Advanced Tab

#### 6.8.2.4 PowerShell (RDM CmdLet)

## DESCRIPTION

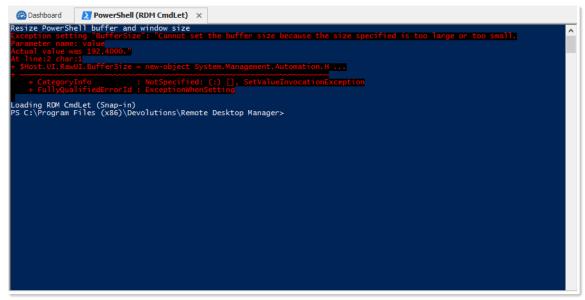
The **PowerShell (RDM CmLet)** automatically opens an embedded PowerShell window. RDM snap-in allows for quick and robust automation of actions such as add/edit/open of sessions, the possibilities are endless.

Since its release, this highly-requested feature has become very useful in solving user requests. A quick search through our forum reveals many usages of the cmdlets, such as automating the creation of Windows Start Menu shortcuts for every RDM session.

To learn more, you can find full RDM cmdlet documentation available via the <u>PowerShell Scripting</u> topic or directly in PowerShell using the Get-Help cmdlet.

## SETTINGS

You will find on the <u>Forum</u> multiple PowerShell script to import edit or interact with the Remote Desktop Manager data.



PowerShell

#### 6.8.2.5 More Tools

6.8.2.5.1 Chocolatey Console

## DESCRIPTION

<u>Chocolatey</u> need to be installed on your computer to use the Chocolatey Console.

The Chocolatey Console is available in the **Tools – More Tools - Chocolatey Console** menu. It allows you to install all the supported applications from Chocolatey directly from Remote Desktop Manager.

## **SETTINGS**

😵 Dashboard 🛛 🚷 Choo	olatey	Console ×		
F	Aut	toHotkey 1	.1.23.01	
25,517 Downloads	repeti		source macro-creation and by a custom scripting lang s.	
1,161 Downloads of v1.1.23.01				
1/24/2016 Last update	be do		AutoHotkey which adds a lo an also be done with AutoH exceptions.	
Project Site License				
Report Abuse	c.	$\rightarrow$ choco i	nstall autoho	otkev
Contact Maintainers Download				- CRCy
🗛 🙉 🔍 🂭 Name	-	Installed Version	Latest Version	Installed
Name autohotkev	-	Installed version	1.1.23.01	Installed
autoit			3.3.14.2	
ilezilla			3.15.0.2	
irefox			44.0.2	
GoogleChrome			48.0.2564.109	
HeidiSOL			8.3.0.4694	
avaruntime			8.0.66	
keepass			2.31	
nysql.workbench			6.3.6	
oowershell			4.0.20141001	
outty.install		0.66	0.66	
pvm			7.1.0.0	
Radmin.Viewer			3.4.0.20120928	
safari				
skype			7.18.0.112	
sysinternals			2016.02.02	
teamviewer			11.0.53254	
tightvnc			2.7.10.20140503	

#### Chocolatey Console

1	Install the selected application.
8	Update the selected application.
8	Uninstall the selected application.
C	Refresh the Chocolatey details list.

# USAGE

During the installation, you will see the following window.

Remote Desktop Manager	×
😮 Chocolatey	
choco install autohotkey	^
Installing the following packages:	
autohotkey	
By installing you accept licenses for the packages.	
autohotkey.install v1.1.23.01 Downloading autohotkey.install 64 bit	
from 'http://ahkscript.org/download/1.1/AutoHotkey112301 Install.exe'	
Installing autohotkey.install	
autohotkey.install has been installed.	
<	>
	Close

Installation window

When the installation is completed you will see a check mark in the **Installed** column.

ia iz iz 🖉			
Name	Installed Version	Latest Version	Installed
autohotkey	1.1.23.01		✓
autoit	3.3.14.2	3.3.14.2	
filezilla		3.15.0.2	
Firefox		44.0.2	
GoogleChrome		48.0.2564.109	<b>~</b>
HeidiSQL		8.3.0.4694	
javaruntime		8.0.66	
keepass	2.31	2.31	
mysql.workbench		6.3.6	

Installation Complete

6.8.2.5.2 Local RDP/RemoteApp Manager

#### DESCRIPTION

The local RDP settings and the RemoteApp settings are available from *Tools – More Tools - Local RDP/RemoteApp Manager*.

If you run Remote Desktop Manager on a Windows Server 2008 machine the TS RemoteApp MMC console will be launched.

If you are running on Windows Vista, the RemoteApp console built into Remote Desktop Manager will be launched because RemoteApp functionality is available in Windows 7 but not the MMC console. Therefore instead of having to modify the required registry entries you can use the Remote Desktop Manager RemoteApp Manager.

## SETTINGS

🖀 Dashboard	🛞 Local RDP/Re	moteApp Manager	0		
Remote Des	op Settings ctions only from compu ktop with Network Lev on (more secure)		RemoteApp Settings  RemoteApp is disabled		<u>Change</u>
Remote Deskto Clients will c Port:	•	Change	UDP Settings <b>1</b> UDP is Enabled		Disable
+ 🖉 🗙 😂					
Name		Path		Arguments	

More Tools - Local RDP/RemoteApp Manager

## **REMOTE DESKTOP SETTINGS**

Allow or disallow the remote connections to your computer.

System Properties	×
Computer Name       Advanced       Remote         Remote       Assistance         Allow Remote       Assistance connections to this computer         What happens when I enable       Remote	
Advanced Remote Desktop Choose an option, and then specify who can connect. Don't allow remote connections to this computer Allow remote connections to this computer	
Allow connections only from computers running Remote     Desktop with Network Level Authentication (recommended)     Help me choose     Select Users	
OK Cancel Apply	

Remote Desktop Settings

## **REMOTE DESKTOP**

Allows you to modify the local RDP port.



Remote Desktop Manager must be run as an administrator to modify the Remote Desktop settings.

🔄 Remote Deskt	op Manager	×
Remote Desktop	RemoteApp Manager	
Connection Settin Host RDP port	gs	
	OK Cancel	

Remote Desktop Connection Settings

#### **REMOTEAPP SETTINGS**

You must Enable RemoteApp to be able to create a New RemoteApp Setting.



Remote Desktop Manager must be run as an administrator to modify the RemoteApp settings.

🔲 Remote Desktop Manager		×			
Remote Desktop RemoteApp Manager					
Enable RemoteApp     Access to Unlisted Programs     O Do not allow users to start unlisted programs on initial connection (Recommended)     Allow users to start both listed and unlisted programs on initial connection					
Options Disable camera					
Enable time zone redirect					
Enable virtualized graphics					
	ОК	Cancel			

#### RemoteApp Settings

## **UDP SETTINGS**

Enable or disable UDP (User Datagram Protocol) locally on your computer. UDP is a communication protocol that offers a limited amount of service when messages are exchanged between computers in a network that uses the Internet Protocol (IP).

🖀 Dashboard 🛞 Local RDP,	/RemoteApp Manager	٥	
Remote Desktop Settings	Change	RemoteApp Settings	<u>Change</u>
Allow connections only from computers running     Remote Desktop with Network Level     Authentication (more secure)			
Remote Desktop	Change	UDP Settings	Disable
Clients will connect to:		<ol> <li>UDP is Enabled</li> </ol>	
Port:			
+ 🖉 🗙 😂			
Name	🔺 Path	Arguments	

Local RDP/RemoteApp Manager - UDP is Enabled

## **USAGE**

1. Click on New RemoteApp Settings.

Remote Desktop  Clients will connect to:		<u>Change</u>	UDP Settings <b>1</b> UDP is Enabled		<u>Disable</u>
Port:					
+ 🕶 🗙 😂					
Name	*	Path		Arguments	

New RemoteApp Settings

2. Configure the RemoteApp

🔲 Remote	Desktop Manager		×
Properties			
6	RemoteApp program name		
Location			
Alias			
۰Þ	-line Arguments o not allow command-line arguments low any command-line arguments		
_ A	ways use the following command-line arguments		
		ОК	Cancel

3. Create a new RDP session and select the **Programs** tab. Enable the **Use RemoteApp** option and then enter the name of the RemoteApp program and save the session. When the session is launched you will have the RemoteApp running locally.

🔲 Remote Desktop Manager [Default	u j	o x
General More Permissions Password Management Security Settings Session Recording VPN/SSH/Gateway User Interface Information Jump Host Events Sub Connections Logs > Management Tools Advanced	Name       Image: Sessions Remote Connections       Image: Sessions Remote Connections       Image: Sessions Remote Connections         Display       Embedded (tabbed)       Image: Sessions Remote Connection Remote Connection       Image: Sessions Remote Connection         Credentials       Default       Image: Sessions Remote Connection       Advanced         Start a Program       Start this program on connection (alternate shell)       Program path and filename         Start in the following folder       Image: Start in the following folder       Image: Start Remote App (seamless mode)         Program       Image: Seamless mode)       Program         Parameters       Image: Seamless mode)       Program         Image: Start the following program after login       After login	ogin delay
BDP (Microsoft Remote Desktop)           Configured		
Variables	Search property Create another	OK Cancel

RDP session - Programs Tab

6.8.2.5.3 Playback (Ansi)

# DESCRIPTION

The Playback (Ansi) is available in Tools – More Tools – Playback (Ansi).

# **SETTINGS**

🔲 Ansi V	Viewer		-	×
n Open	Font	R Clear screen		C
				^
				× .

More Tools - Playback (Ansi)

an Open	Select the ansi file you wish to open in the Terminal Playback.
Font	Select the font for the Terminal Playback.
<b>E</b> Options	See <b>Options</b> section.
🔄 Clear screen	Clear the screen to play another ansi file.

## **OPTIONS**

🔲 Remote Desktop Manager - Ansi Player Opt — 🛛 🗙								
Ansi Player Options								
Terminal name	xterm							
Encoding	iso-8859-1 Western European (ISO) 🔹							
Auto wrap	On 👻							
Backspace wrap	On +							
Force Non-destruct	ive backspace							
Ignore Substitute character								
Implicit Carriage return in Linefeed								
	OK Cancel							

Playback (Ansi) - Ansi Player Options

Terminal name	Indicate the terminal name.
Encoding	Indicate the encoding you wish to use.
Auto wrap	<ul> <li>Indicate what happen when text reaches the right-hand edge of the window. Select between:</li> <li>On</li> <li>Off</li> <li>Dos</li> </ul>
Backspace wrap	This option allows you to choose what you want to do
	when you press backspace. Some terminals believe that the backspace key should send the same thing to the server as Control-H (ASCII code 8). Other terminals believe that the backspace key should send ASCII code 127 (usually known as Control-?) so that it can be distinguished from Control-H. Select between:

	DESCRIPTION
	• On • Off • Dos
Force Non- destructive backspace	Allow to perform a normal backspace without deleting a character.
Ignore Substitute character	Ignore the substitute character that can be use in Putty.
Implicit Carriage return in Linefeed	Most servers send two control characters, CR and LF, to start a new line on the screen. The CR character makes the cursor return to the left-hand side of the screen. The LF character makes the cursor move one line down (and might make the screen scroll).
	Some servers only send LF, and expect the terminal to move the cursor over to the left automatically. If you come across a server that does this, you will see a stepped effect on the screen. If this happens to you, try enabling the option and things might go back to normal.

6.8.2.5.4 RDM Agent

# DESCRIPTION

The **Remote Desktop Manager Agent** is a very powerful tool that allows commands to be run on multiple machines.

+ 💉 😂	Quick	Connect <host< th=""><th>&gt;</th><th><del>-</del> 🐼</th><th>🖌 📄 👘</th><th></th><th></th><th></th><th></th><th></th></host<>	>	<del>-</del> 🐼	🖌 📄 👘					
e Home	Edit V	iew Admini	stration Too	ols Window	w Help					
ssword nerator Gene	SSH Key Generat Certificate Gener Port Generator erators sktop Manage	ator Password Analyzer		Key Agent Manager ()	PowerShell (RDM CmdLet)		Tools Add-on Manage		cript/Tool Manage on Manager	er
-	re Tools									
	ie iouis									
	re roois			2						
	re roois		0	]						
	°0	>_	°		÷		<b>R</b>	\$	É	¢
earch	•		Computer Management	Control Panel	Device Manager	Event Viewer	FlashFXP	Group Policy Editor	Hosts File	Internet Informatio
iearch	Chocolatey Console	Command	Computer Management				FlashFXP	Editor		Internet Informatio
iearch	Chocolatey	Command Prompt	Computer	Control Panel	Manager		FlashFXP FlashFXP Proxy Networks			Internet

More Tools - RDM Agent

# SETTINGS

To launch a script through the **RDM Agent**, you first need to open an RDP connection to all the machines you wish to execute the script on. Once opened, select all the opened sessions in the <u>Navigation Pane</u>, right-click them and select Execute Script via Agent.

Execute script via Agent only needs the RDM Agent when the script is executed from the Quick Script tab. RDM needs to be fully installed on the remote computer when the script is executed from the Scripts/Tools tab.

Navigation		щ	×	🔁 Da	shboard
脧 SQL Serv - Admin			r		Contact
Name					Contact
🗸 📒 SQL Serv - Adı	min			Actio	ns
🗸 🔓 Enterprise					
> 🧰 Cont 🖻	View Password				
> 🚞 Cred 👸		and Passwo	ord		ntry
	Copy Username				, i i i i i i i i i i i i i i i i i i i
> 📒 Folde 🏂	Copy Password				
> Info 📷	View Folder Deta	ils			2
> Macr	Execute Script Via	a Agent			perties
> Sess 🥌	New Entry			Ins	-
Mac Mac	Duplicate		Ctr	rl+D	
	Add			I	
	Edit			I	ties
5	Move				
×	Delete Folder (96	Entries)	Ctrl+	Del	
5	Favorite				
⊨	Play List			I	
	Clipboard			I	
	Macros/Scripts/1	ools		I	
	View			I	
	Import			I	
	Export			I	
5	Expand All		C	trl +	
E	Collapse All		C	trl -	
	Properties				

Execute Script Via Agent

## **QUICK SCRIPT - MESSAGE**

🔲 Remote Desktop Manager - Macro/Scri	Remote Desktop Manager - Macro/Script/Tool List				
Script/Tool	List				
Quick Script Scripts/Tools Advanced					
≡ • Message =	Message				
Command line (cmd.exe)				^	
DeverShell					
Scripts/Tools					
	4		Þ	*	
E Variables		Execute	Canc	el	

Quick Script - Message

Message	Send a message to all targets.

# QUICK SCRIPT - COMMAND LINE (CMD.EXE)

Remote Desktop Manager - Macro/Script/Tool List	-	□ ×
Macro/Script/Tool List		
Quick Script Scripts/Tools Advanced		
Image: Scripts/Tools     Run     Image: Command line (cmd.exe)     Image: Command line (cmd.exe)		•
III Variables	Execute	Cancel

Quick Script - Command Line

Run	Indicate the command line that you want to execute.
Use Default Working directory	Use the default working directory when connect to the session.
Run as Administrator	Elevates the process to run as an administrator.
Keep open	Keep the window open after the execution of the command line.

# **QUICK SCRIPT - POWERSHELL**

Remote Desktop Manager - Macro/Script/Tool List			×
Macro/Script/Tool List			
Quick Script         Scripts/Tools         Advanced			
■     Message       ●     Command			
PowerShell			
Image: Scripts/Tools     Arguments			
Run as Administrator			
No profile Vo exit			
III Variables	Execute	Cance	el

Quick Script - PowerShell

Command	Indicate the PowerShell command that you want to execute.
Filename	Select a PowerShell file on the network or on the computer.
Arguments	Arguments that are appended to the Command.
Run as Administrato r	Elevates the process to run as an administrator.
No Profile	Does not load the Windows PowerShell profile.
No exit	Does not exit after running startup commands.

## **QUICK SCRIPT - RUN**

🔲 Remote Desktop Manager - I	Macro/Scrip	t/Tool List			×
Macro/Script	/Tool L	.ist			
Quick Script Scripts/Tools Adv	vanced				
		Run			
		Arguments			
🖅 💿 Run		Use Default Working directory			
Scripts/Tools		Run as Administrator			
I Variables			Execute	Cance	2

Quick Script - Run

Run	Select the program or file that you want to execute.
Arguments	Arguments that are appended to the Command.
Use Default Working directory	Use the default working directory when connect to the session.
Run as Administrator	Elevates the process to run as an administrator.

## **QUICK SCRIPT - SCRIPTS/TOOLS**

Remote Desktop Manager - Macro/Script/Tool List			×
Macro/Script/Tool List			
Quick Script Scripts/Tools Advanced			
Script/Tool   Command line (cmd.exe)   PowerShell   Run   Scripts/Tools			
E Variables Ex	ecute	Cano	el

Quick Script - Scripts/Tools

Scripts/Too Is	Select a script or a tool session that you have already created in Remote Desktop Manager.

## SCRIPT/TOOLS

Commanus 333	Commands	539
--------------	----------	-----

		×
cute	Cance	l
	ecute	

Scripts/Tools

Search for a script or a tool you wish to execute through the RDM Agent.

## SETTINGS

Remote Desktop Manager - Macro/Script/Tool List			×
Macro/Script/Tool List			
Quick Script Scripts/Tools Advanced			
Delay 500 ms			
Ex Variables	ecute	Cance	el

Advanced

Open all connections	When multiple sessions are selected to <b>Execute Script Via Agent</b> , it will open all the selected connections.
Delay	Enter the time delay between opening each selected session.

### AGENT STATUS

Open a RDP session, right-click on this single session and select Agent Status. The Agent Status will show you that Remote Desktop Manager is installed on the remote computer or not, that the Remote Desktop Manager Agent is active or not and how many Remote Desktop Manager Jump sessions are opened.

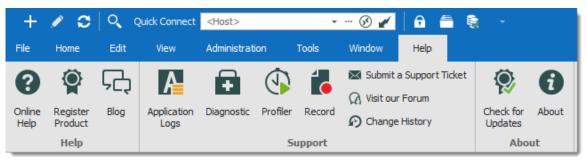
Remote Desktop Manager	
G	
Remote Desktop Manager	<b>\$</b>
Remote Desktop Manager Agent	<b>\$</b>
Remote Desktop Manager Jump Sessions	
C	Close

Agent Status

## 6.9 Help

## DESCRIPTION

The **Help** tab contain links to the Devolutions forum and Online Help, and many support related features, such as the **Application Logs**, the **Profiler**, and the **Recorder**.



Ribbon - Help

#### HELP

Online Help	Launches the Online Help you are currently browsing!
Register Product	Register the Remote Desktop Manager with a Trial or Enterprise license serial. For more information, please consult the <u>Register Enterprise Edition</u> topic.
Blog	Visit our <u>Blog</u> . Learn about the Devolutions Team, as well as our Goals, Products and more.

#### SUPPORT

Applications Logs	Opens the <u>Application Logs</u> . This is useful for understanding encountered errors.
Diagnostic	Launches the <u>Diagnostic</u> feature.
Profiler	Use the <u>Profiler</u> to acquire specific information. Used to diagnose connectivity issues with a data source.

Record	Use the <u>Recorder</u> . Used to help our Devolutions Support team troubleshoot the problem
Submit a Support Ticket	Submit a Support Ticket. Help us make your experience better by reporting experience issues or by asking for new features.
Visit our Forum	Visit our <u>Forum</u> . You can create an account and experience the bleeding edge of our customer support.
Change History	Send you directly to our Remote Desktop Manager web page to view the <u>new features and enhancements</u> when a new version is release.

#### ABOUT

Check for Updates	Launch the Update Manager.
About	Learn about Remote Desktop Manager.

- 6.9.1 Support
- 6.9.1.1 Application Log

# DESCRIPTION

When encountering errors, you can verify the local application log, which is available in *Help – Application Logs*.

These logs are saved in **%LocalAppData%** \**Devolutions**\**RemoteDesktopManager**\**RemoteDesktopManager.log.db**. Logs are displayed as a list which can be filtered by date, message, version,or type of log.

Message		Info	Clean Up	
		~	72 0	
Date 👻 Ve				og(s)
	ersion	Туре	Message	1
5/19/2019 10:56:35 20	019.1.30.0 - 32-bit	Error Silent	System.OutOfMemoryException: Exception of type 'System.OutOfMemoryException' was thrown. r.B	
6/19/2019 10:56:34 20	019.1.30.0 - 32-bit	Error Silent	System.OutOfMemoryException: Exception of type 'System.OutOfMemoryException' was thrown. r.B.	
6/19/2019 10:54:48 20	019.1.30.0 - 32-bit	Error Silent	System.OutOfMemoryException: Exception of type 'System.OutOfMemoryException' was thrown. r.B.	
6/19/2019 10:54:47 20:	019.1.30.0 - 32-bit	Error Silent	System.OutOfMemoryException: Exception of type 'System.OutOfMemoryException' was thrown. te(.	
6/19/2019 10:54:47 20	019.1.30.0 - 32-bit	Error Silent	System.OutOfMemoryException: Exception of type 'System.OutOfMemoryException' was thrown. r.B.	
6/19/2019 10:54:47 20	019.1.30.0 - 32-bit	Error Silent	System.OutOfMemoryException: Exception of type 'System.OutOfMemoryException' was thrown. r.B.	
6/19/2019 10:54:44 20	019.1.30.0 - 32-bit	Error Silent	System.OutOfMemoryException: Exception of type 'System.OutOfMemoryException' was thrown. r.B.	•

View Application Log dialog

## REPORT

A report of the logs can be saved in a text file as well. Simply navigate to the **Report** tab of the application log, then click on the **Save** button to select a location to save the file.

Send to Support	Save		
at Devolutions.Remo (a) (12/2019 7:57:49 A) at Devolutions.Remo (6) (12/2019 7:57:49 A) at Devolutions.Remo	biteDesktopMan M - 2019, 1, 29, 1 biteDesktopMan M - 2019, 1, 30, 1	0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Managers.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Managers.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Managers.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Managers.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Managers.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Managers.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Managers.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Manager.SessionMenu/Manager.SetControlStates(ConnectionControlStates states) in C: Dev/Devolutions\RemoteDesktopManager\Core\ 0 - 32-bit] Error: System.NullReferenceException: Object reference not set to an instance of an object. ager.Manager.SessionMenu/Manager.SetCo	

# **CLEAN UP**

For security reason, it is a best practice is to clean up the application log once every month. To do so, in the application log, use the **Clean Up** feature.

We strongly recommend to do a **Delete all**, but this can be customized to delete specific logs by type, date or selection.

🔲 Remote Desktop Manager - Delet	te History Logs			×
<b>Delete History L</b>	.ogs			
Delete all     Delete selection     Custom     Type	— Date ——			
Debug	Date	Between		-
Error Error Silent		3/6/2019		Ŧ
Info		То		
		3/6/2019		Ŧ
			Delete	Cancel

#### **INCREASING THE DEBUG LEVEL**

When experiencing issues with Remote Desktop Manager our support team might ask you to increase the debug level of the application during the support process. We strongly suggest to only increase the debug level when requested by our support team.

Increase the debug level in File - Options - Advanced.

Remote Desktop Manager			×
General     Application Start     Application Close     Notification     Proxy (Web)     Custom Variables     User Interface     Types	Advanced  Debug level  O  Debug level  Debug level Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level  Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug level Debug		
Reports Browser Extensions Key Agent Security > Tools Path Cloud	Allow non upgraded data source Always show "Go Offline" button Auto hide filter tree view Automatically open file location after session recording Confirm on drag and drop move Connection constructor Lazy loaded		
V Advanced PowerShell	Offine engine     Default - MCDF v2.0 •       Force "localhost" when using VPN dynamic port     False •		
	✓ Confirm on multiple sessions open if open count greater than       1 ↓         Information		
Import Options			
Export Options			
	Search property 🔥	Cano	:el

File – Options – Advanced – Debug level

#### 6.9.1.2 Diagnostic

# DESCRIPTION

If you encounter a problem with Remote Desktop Manager, you can run a system diagnostic, which is available in *Help – Diagnostic.* This could help diagnose or give a pointer to what kind of issues you might be experiencing.

#### SYSTEM

The administrator item could be the possible source for security problem. This happen often when a user has the SYSDBA or is DB\_OWNER of the SQL Server database.

Some other issues could be related to the fact that the application is running in Remote Desktop Services. However Remote Desktop Manager is fully compatible with Remote Desktop Services.

FIPS related issues and solutions can be found in the specific FIPS (Encryption) troubleshooting section.

If you have a <u>Remote Desktop Manager Jump</u> configured you can run a test of your Jump host by clicking on Jump Test.

🔲 Remote Desktop Manager - System Diagnostic	_ ×
<b>System Diagnostic</b>	
System Data Source Policy	
Windows 10 Version 1809 (OS Build 17763.379) 64-bit 🗸 🔇	Jump Test
Support local password saving 🗸	
Is administrator	
Is system administrator	
Is database administrator	
Is elevated privilege	
Is running in Terminal Services	
FIPS mode disabled 🗸 😗	
Application Communicator is running	
Workspace size 1621 / 822	
Is Internet connected	
Allow multiple instances	
Internet Explorer 11.379.17763.0 - Internet Explorer 11	
Debug level 0	
Running since Running since: 2 hours 48 min 49 sec	
Font scaling 100% - Dpi aware: True	
Allow drag-and-drop	
Is allowed by firewall	
RDP ActiveX version 10.0.17763.1 (WinBuild. 160101.0800)	
Launch Profiler	Send Close

System Diagnostic – System



Please read the Troubleshooting topic if experiencing issues with Remote Desktop Manager, it lists error messages and could contain the fix/workaround for your problem.

# DATA SOURCE

The **Data Source** tab contains information regarding the current data source, such as the number of entries it contains, the size of your data source, the number of custom images and the offline state.

Too many custom images could dramatically increase the size of the data source and cause load time issue. Remote Desktop Manager - System Diagnostic × System Diagnostic + System Data Source Policy Data source ID: \* Repository ID: Data source type: Microsoft SQL Server Data source size: 84.2 KB Data source settings size: 2.6 KB User specific settings size: 400 Bytes Connection protocol: TCP Offline: True (ReadWrite - OpenMCDFv2) Allow connection states: True Repositories: 3 Entries/Items: 124/124 Sessions: 34 Data entries: 16 Sub connections: 9 Documents: 21 Contacts: -->Sub total: 88 Session tools: 17 28 Folders: --> Total: 124 Virtual folders: 0 Custom images: 2 RTF notes: 1 Database Diagnostic Launch Profiler Send Close

System Diagnostic - Data Source

#### POLICY

The Policy tab display the list of Group Policy Templates to see if any of them has been applied.

🔳 Remote Desktop Manager - System Diagnostic		×
System Diagnostic		
System Data Source Policy		
Name	Value	^
Force the user to always be prompted for the passphrase while connecting to data source that is prote		
Disable the About menu		
Disable the add-on creation and the Add-on Manager. Deprecated, use DisableAddOnEntries and Disabl		
Disable Add-on creation		
Disable Add-on Manager		
Disable all the local application tools like the Event Viewer or IIS		
Disable the application automatic update check		
Disable caching		
Disable the custom image edition in the session configuration		
Disable drag and drop in the connection list		
Disable error report prompt		
Disable the menu File->Data Sources		
Disable the menu File->Options		
Disable import and export options		
Disable import in private vault		
Disable password generator		
Disable the override hard drive specific settings for RDP entries		
Disable read/write offline		
Disable the reveal password		
Disable the Add-On Manager in the Tools menu		
Disable the Chocolatey Console in the Tools menu		~
Launch Profiler S	end C	lose

System Diagnostic - Policy

#### 6.9.1.3 Profiler

# DESCRIPTION

Remote Desktop Manager has a built-in profiler to diagnose connectivity issues with a data source.

Displaying the Profiler window might slow down the operations on the data source. Proceed with care.

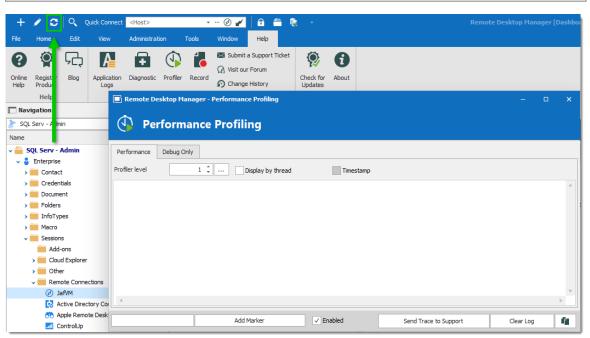


To diagnose startup issues, you can enable the profiler from the command line as described in Command Line Arguments

# PROCEDURE

1. Once the Profiler is opened, refresh the data source.

Holding the **Ctrl** key while performing the refresh should force a full reload of the data source, recreating the offline cache.



Refresh Data Source

2. The Profiler data will appear in the **Performance Profiling** window.

🔲 Remote Desktop Manager - Performance Profiling		×
Performance Profiling		
Performance Debug Only		
Profiler level 1 🗘 Display by thread Timestamp		
<ul> <li>4 - Connection States: Refresh</li> <li>4 - ClearCloseRdunning : 0 ms</li> <li>4 - GetAllConnectionStates : 10 ms</li> <li>4 - HasChanges : 0 ms</li> <li>4 - Connection States: Refresh : 12 ms</li> <li>4 - Connection States: Refresh</li> <li>4 - ClearCloseRdunning : 0 ms</li> <li>4 - GetAllConnectionStates : 9 ms</li> <li>4 - GetAllConnectionStates : 9 ms</li> <li>4 - GetAllConnectionStates : 9 ms</li> <li>4 - Connection States: Refresh : 9 ms</li> <li>1 - GetAllConnectionStates : 9 ms</li> <li>2 - Connection States: Refresh : 9 ms</li> <li>1 - GetAllConnectionStates: Selfersh : 9 ms</li> <li>1 - GetAllConnectionStates : 9 ms</li> <li>2 - Connection States: Refresh : 9 ms</li> <li>3 - ClearConnections : 0 ms</li> <li>3 - ClearConnections : 0 ms</li> <li>4 - ClearConnections [Microsoft SQL Server : SQL Serv - Admin] : 49 ms</li> </ul>		*
4		>
Add Marker   Enabled  Send Trace to Support	Clear Log	6

Performance Profiling

3. Click on **Send Trace to Support** in order to send the Profiler data logs to our Devolutions support team. You can add a Marker when running multiple tests to separate them.

## **DEBUG ONLY**

To learn more about the **Debug only** tab please see the Debugging topic.

📑 Remote D	esktop Manager - Performance Profiling				• ×
🔄 Pe	rformance Profiling				
Performance	Debug Only				
Debug level	0 🗘				
					*
4					
	Add Marker	✓ Enabled	Send Trace to Support	Clear Log	1
	1				
		Debug only			

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6.9.1.4 Record

## DESCRIPTION

If you are experiencing issues with Remote Desktop Manager, you can help our Devolutions Support team troubleshoot the problem by sending them a short video of your issue. Launch this by using the **Record** feature located in the menu *Help* – *Record*.

The **Record** is an easy-to-use built-in screen recorder that could even be a useful for your in-house training as it is not limited to Remote Desktop Manager.

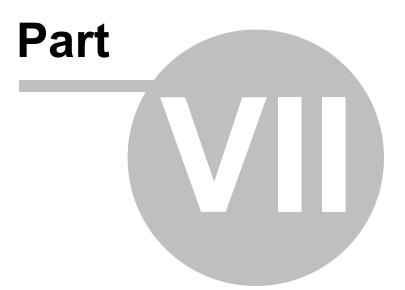
## SETTINGS

The Video Recording Options uses the MP4 format, which on Vanilla installs of Windows is not supported. If you encounter any difficulty viewing the video we strongly suggest the use of a <u>VLC player</u>.

🔄 Remote Deskte	op Manager - Video Recording Options	×
📑 Video	o Recording Options	
Resolution Format Source	Default   Default  Default	
Frame rate	<ul> <li>8 +</li> <li>✓ Show cursor</li> <li>✓ Open file location at recording end</li> </ul>	
	ОК	Cancel

Video Recording Options

# Devolutions Web Login



# 7 Devolutions Web Login

7.1 Overview

# DESCRIPTION

Devolutions Web Login is a web browser password plugin used in conjunction with Remote Desktop Manager, Devolutions Server and Devolutions Password Hub, which allows users to securely inject passwords into websites using credentials stored in their vaults.

It gives system administrators full control over the management of passwords, without affecting the user's productivity.

		æ
Remote Desktop	<b>Devolutions Server</b>	Devolutions Password
Manager	Secure, Manage and	Hub
Centralize, Manage and	Monitor	Vault and Manage
Secure Remote	Access to Privileged	Business-User
Connections	Accounts	Passwords
Manager centralizes all remote connections on a single platform that is securely shared between	Devolutions Server lets you control access to privileged accounts and manage remote sessions through a secure solution that can be deployed on- premises.	Hub is a secure and cloud-based password manager for teams.

Advanced users, other browser extensions, or even JavaScript injection can all result in the password being read from the password edit control, even if it displays dots instead of the password. Any use of an external browser must be carefully weighed against your security requirements.

#### Warning for all Remote Desktop Manager users:

The **Devolutions Web Login (DWL)** was created for a normal desktop environment. It uses Inter-process communication (IPC) with the client application. Using it on a remote desktop server introduces a level of risk that may be unacceptable for corporate users.

Safe usage of **DWL** requires a manual configuration of both **RDM** and **DWL** on each user profiles. For more information about the subject visit our <u>Secure Devolutions Web Login</u> topic.

## 7.2 Installation

#### DESCRIPTION

**Devolutions Web Login** is a free browser extension companion tools. It does require one of our products to function at this time.

Click on the browser link below to start the installation of Devolutions Web Login plugin:

- Chrome
- Firefox
- Edge
- Opera

#### 7.2.1 Chrome

## DESCRIPTION

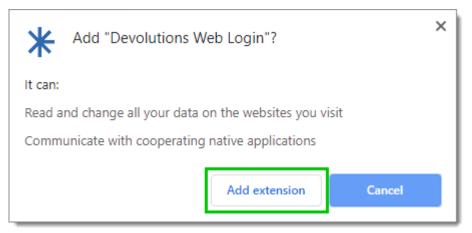
Follow the steps below to complete the installation of Devolutions Web Login in the Chrome web browser.

- 1. Open Chrome.
- 2. Navigate to <u>Devolutions Web Login extension</u> or use the link from our <u>Website</u>.
- 3. Click the *Add To Chrome* button.

🚡 chrome v	web store
Home >	Extensions > Devolutions Web Login
*	Devolutions Web Login       Add to Chrome         Offered by: https://devolutions.net       20,000+ users
	Overview Privacy practices Reviews Support Related
	Intervention of the second
	• • • • •

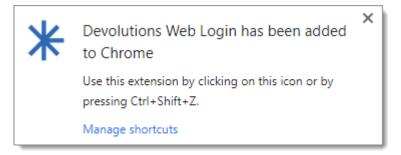
Devolutions Web Login Chrome Web Store

4. Click *Add extension* in the confirmation dialog.

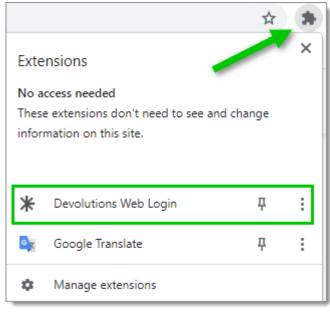


Extension Installation Confirmation

Once installed a confirmation box will appear.



5. Click the Chrome extension button and Pin Devolutions Web Login to finish the installation.



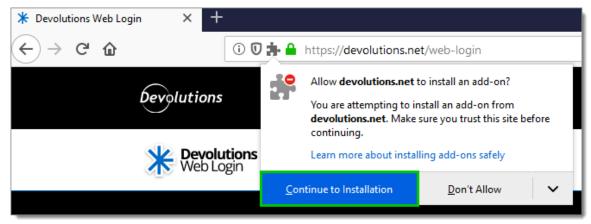
Devolutions Web Login Extension Button

## 7.2.2 Firefox

## DESCRIPTION

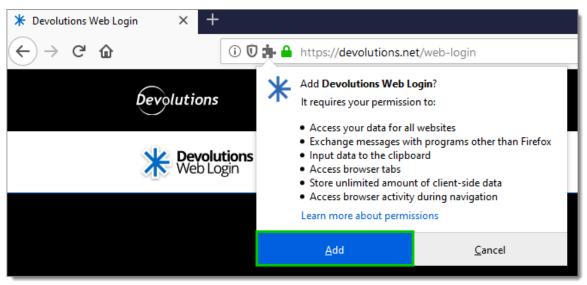
Follow the steps below to complete the installation of Devolutions Web Login in the Firefox web browser.

- 1. Open a Firefox window.
- 2. Download the extension from our <u>Devolutions Web Login</u> website page.
- 3. Click *Continue to Installation* in the confirmation dialog.



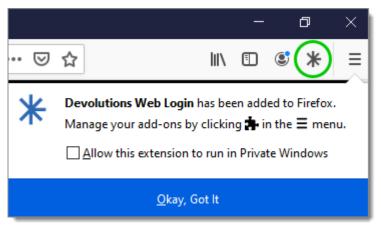
Continue to Installation

4. Click *Add*, when prompted to add Devolutions Web Login to the extension.



Add the Extension

5. Once installed, access the extension by clicking \* in the top-right corner of Firefox.



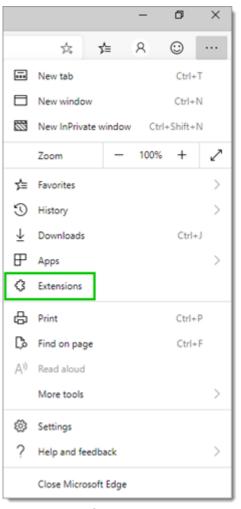
Devolutions Web Login Extension Button

#### 7.2.3 Edge

# DESCRIPTION

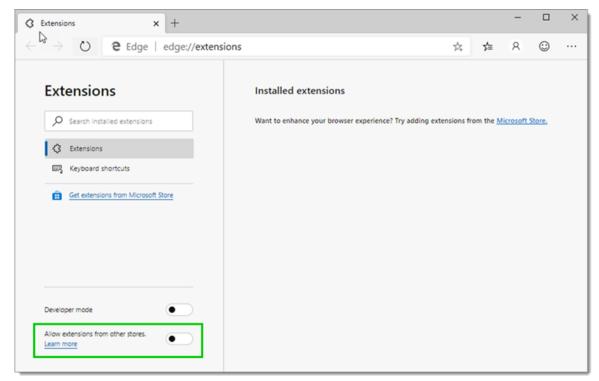
Here are the steps to install Devolutions Web Login on Microsoft Edge Beta.

- 1. Open Microsoft Edge Beta.
- 2. Click on *Extensions* in the menu of the browser.



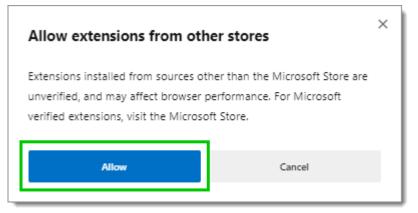
Microsoft Edge Beta Menu

3. Allow extensions from other stores.



Allow Extensions

4. Allow Non Microsoft Store Extensions.



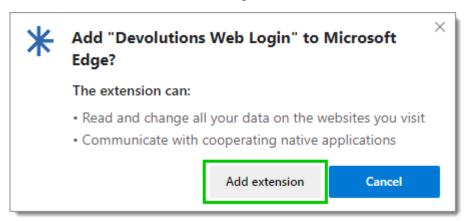
Allow Non Microsoft Store Extensions

- 5. Follow the extension from <u>Devolutions Web Login</u> website page to the Chrome Web Store.
- 6. Click Add to Chrome.

a chrome v	web store
Home >	> Extensions > Devolutions Web Login
*	Devolutions Web Login       Add to Chrome         Offered by: https://devolutions.net       ** * * * 23   Productivity   * 14,590 users
	Overview Reviews Support Related
	A second seco

Chrome Web Store

7. Add the extension to Microsoft Edge Beta.



Add Devolutions Web Login to Microsoft Edge Beta

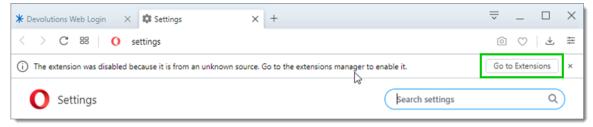
The extension is installed. Access it by clicking \* in the top-right corner of the Microsoft Edge Beta web browser.

#### 7.2.4 Opera

## DESCRIPTION

Follow the steps below to complete the installation of Devolutions Web Login in the Opera web browser.

- 1. Open Opera.
- 2. Download the extension of <u>Devolutions Web Login</u> from our website page.
- 3. Go to *Browser Settings* in the easy setup of Opera.
- 4. Drag and drop the .crx file from step 2 from the downloads in the web browser.
- 5. Click on *Go to Extension* from the information panel at the top.



Opera Extensions Enabling

6. Click *Install* and the **Yes**, *install* pop up.

← ★ Devolutions Web Login	
Ins	stall
Description Form filler that obtains entries from Remote Desktop Manager and Devolutions Password Server	
Version 2019.2.0.0	
Size 11.6 MB	
Permissions <ul> <li>Read your browsing history</li> <li>Communicate with cooperating native applications</li> </ul>	
Site access	
This extension can read and change your data on sites. You can control which sites the extension can ac Automatically allow access on the following sites	
Allow in incognito	
Allow access to file URLs	
Allow access to search page results	
Source Not from Opera add-ons.	
Remove extension	

Opera Install Window

- 7. Access the extension by clicking  $\star$  in the top-right corner of Opera.
- 7.3 First Login
- 7.3.1 Password Hub

# DESCRIPTION

## FIRST LOGIN WITH DEVOLUTIONS WEB LOGIN

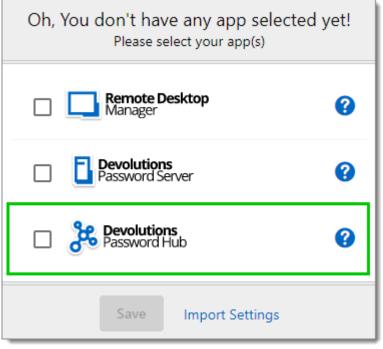
Follow these steps to connect Devolutions Password Hub to Devolutions Web Login extension:

1. Click on *Devolutions Web Login* \* extension at the top right corner of your browser.



A Devolutions Password Hub access is required to continue.

 Choose *Devolutions Password Hub* in the list and *Save*. You could at this point import settings; the option will also be available in the <u>Settings</u> menu after the log in.



First Login

3. *Log in* to your account.



4. Enter the credentials from your Devolutions Account to continue.

Devolutions	
Log in to c	ontinue
Password	
Contin	ue
Forgot Password	Create Account

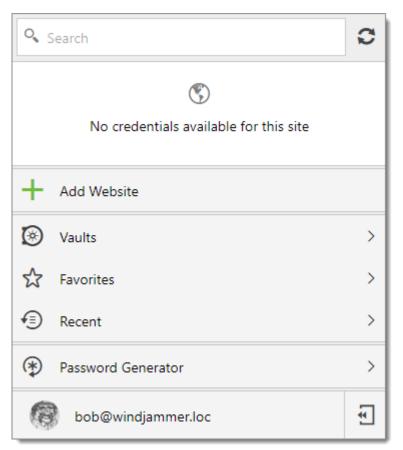
Devolutions Account Login

5. Unlock the vault with your master key.



Devolutions Web Login will recognize automatically the Password Hub linked to your Devolutions account. Click *Change* to modify the URL.

Devolutions Web Login is now connected to your vaults.



Devolutions Web Login Connected to Devolutions Password Hub

#### 7.3.2 Devolutions Server

# DESCRIPTION

#### FIRST LOGIN WITH DEVOLUTIONS WEB LOGIN

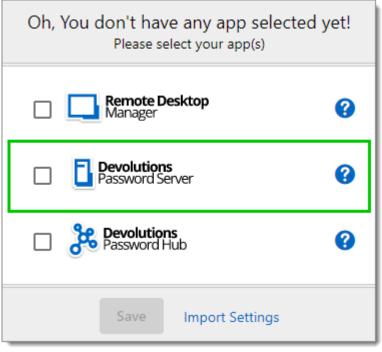
Follow these steps to connect Devolutions Server to Devolutions Web Login extension:

1. Click on *Devolutions Web Login* \* extension at the top right corner of your browser.



A Devolutions Server access is required to continue.

2. Choose *Devolutions Server* in the list and *Save*. You could at this point import settings; the option will also be available in the <u>Settings</u> menu after the log in.



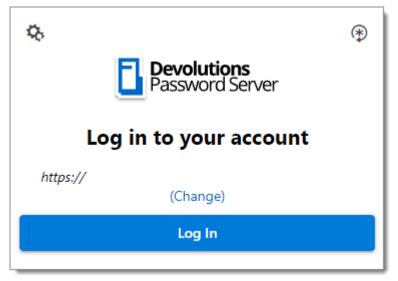
First Login

3. Enter the server address. Test the connection to validate it, then Save.



Server Address

4. Press the Log In after you saved the address.



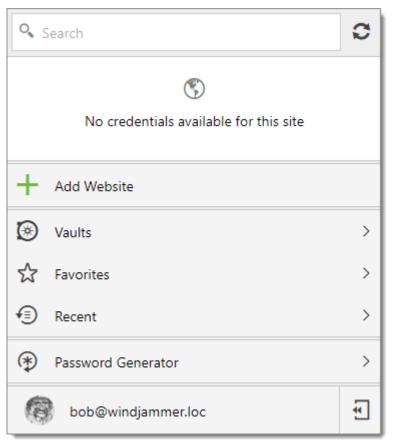
Devolutions Web Login Login

5. Enter your Devolutions Server credentials and log in.

<b>Devolu</b> Passwo	<b>itions</b> ord Server
Log in to you	ur account
Username	*
Password	*
Log	In
	v 2019.1.20.0

Devolutions Server Login

Devolutions Web Login is now connected to your vaults.



Devolutions Web Login Connected

#### 7.3.3 Remote Desktop Manager

# DESCRIPTION

#### FIRST LOGIN WITH DEVOLUTIONS WEB LOGIN

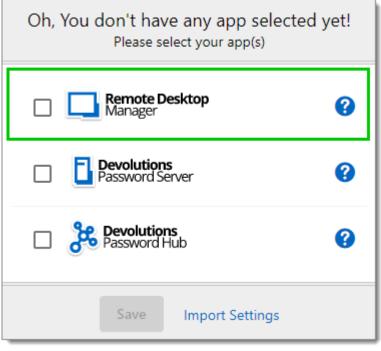
Follow these steps to connect your Remote Desktop Manager to Devolutions Web Login extension:

1. Click on Devolutions Web Login \* extension at the top right corner of your browser.



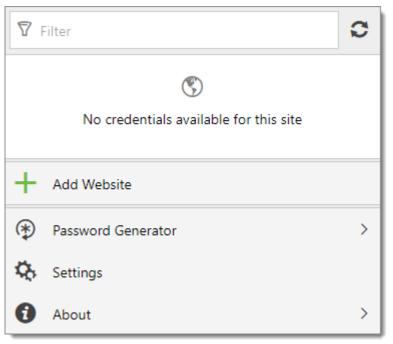
Remote Desktop Manager must be installed and running to continue.

2. Choose *Remote Desktop Manager* in the list and *Save*. You could at this point import settings; the option will also be available in the <u>Settings</u> menu after the log in.



First Login

You will be automatically connected to your vaults.



Devolutions Web Login Connected

# 7.4 Exploring Devolutions Web Login

7.4.1 Menu

# DESCRIPTION

The user interface **Devolutions Web Login** is slightly different in appearance when connected to Remote Desktop Manager, Devolutions Server or Devolutions Password Hub.

See below a list of the menu and information available from the Devolutions Web Login extension:

- Refine the credential list available with the **search**.
- Add a website from Devolutions Web Login in a specific folder located in a vault or your User Vault.
- Visualize the credential stored in the vaults if you are connected with Devolutions Server or Devolutions Password Hub.
- Browse recently used entry or favorites.

- Use the **password generator** to create custom and more secure credentials.
- Set Devolutions Web Login settings.
- 7.4.1.1 Settings

## DESCRIPTION

Devolutions Web Login settings are separated in two categories, <u>Configuration</u> and <u>Data sources</u>.

	<b>₩</b> De	evolutions Web Login	
Settings			
Configuration	n		
General	Never List	Import / Export	
Data sources			
RDM	DPS	нив	

Devolutions Web Login Settings

#### CONFIGURATION

The **General** settings are about the user interface and interaction.

- Show Devolutions Web Login extension icon in the credentials fields.
- Show the prompt when saving credentials on new login.
- Color the fields that are filled with Devolutions Web Login
- Disable the analytics in the advanced setting.

The *Never list* displays the list of websites, added locally, to which the user will never be prompted to save credentials.

- Type can range from: Never add site, Never autofill, Never do anything too Never show icons in field.
- Matching options are: Base domains, Host, Starts with, RegEx and Exact.

To remove a website from the never list click the *trash can* icon next to it. To edit an entry, delete it and create another.

The *Import / Export* setting allows to save and transfer your currently set preferred settings.

- Import setting from other browsers or users.
- Choose to export Devolutions Web Login settings, password generator template and the never list.

#### DATA SOURCES

The data sources settings are used to customize Devolutions Web Login interactions with <u>Remote Desktop Manager</u>, <u>Devolutions Server</u> and <u>Devolutions Password Hub</u>.

#### **REMOTE DESKTOP MANAGER**

GENERAL OPTIONS	DESCRIPTION
Enable Remote Desktop Manager app	Retrieve entries from Remote Desktop Manager when the application is open.

GENERAL OPTIONS	DESCRIPTION
Use default port (19443)	Communicate with the default port 19443 between the application.
Add entry in User Vault by default	Save new entries in the User Vault.
Destination folder	Choose the folder where the credentials are stored in the vault.
ACTION OPTIONS	DESCRIPTION
Automatically retrieve credentials on page load	Devolutions Web Login automatically search for credentials in the data source when connecting to a website.
	If disabled, click on the Devolutions Web Login extension icon to manually retrieve credentials.
Automatically fill in credentials on load	Fill automatically the credentials when loading a web page.
Automatically submit the form after filling	Submit the credentials automatically when the fields are filled.
ADVANCED OPTIONS	DESCRIPTION
Application key	Secure the port with an application key by using the same code in Remote Desktop Manager and Devolutions Web Login.
	Navigate to <i>File – Options – Browser</i> <i>Extensions</i> in Remote Desktop Manager to set the application key.

ADVANCED OPTIONS	DESCRIPTION
Enable native messaging	Exchange messages with a native application installed on the user's computer.
Use legacy API	Use the old browser extension API for compatibility with older versions of Remote Desktop Manager.

# **DEVOLUTIONS SERVER**

GENERAL OPTIONS	DESCRIPTION
Enable Devolutions Server	Retrieve entries from Devolutions Server.
Destination folder	Choose the folder where the credentials are stored in the vault.
Server URL	Enter the URL of the Devolutions Server instance to connect to.
ACTION OPTIONS	DESCRIPTION
Automatically retrieve credentials on page load	Devolutions Web Login automatically search for credentials in the data source when connecting to a website. If disabled, click on the Devolutions Web Login extension icon to manually retrieve credentials.
Automatically fill in credentials on load	Fill automatically the credentials when loading a web page.
Automatically submit the form after filling	Submit the credentials automatically when the fields are filled.

# **DEVOLUTIONS PASSWORD HUB**

GENERAL OPTIONS	DESCRIPTION
Enable Devolutions Password Hub	Retrieve entries from Devolutions Password Hub.
Server URL	Enter the URL of the Devolutions Password Hub instance to connect to.
ACTION OPTIONS	DESCRIPTION
Automatically fill in credentials on load	Fill automatically the credentials when loading a web page.
Automatically submit the form after filling	Submit the credentials automatically when the fields are filled
ADVANCED OPTIONS	DESCRIPTION
Devolutions Account login	Set your Devolutions Account login URL.
Show favicon	Display the Devolutions Web Login favicon.

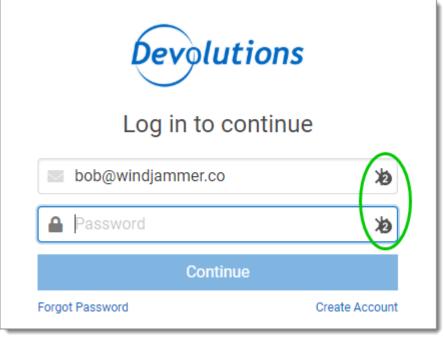
#### 7.4.2 Retrieve Credentials

# DESCRIPTION

Once configured in your Devolutions product, credentials are automatically detected by **Devolutions Web Login** when connected to their respective applications.

# LOG IN TO A WEBSITE

Select an entry from the list in Devolutions Web Login or click on the icon in the credential field to fill in the login information and connect to the website.



Automatic Log In

7.4.2.1 Remote Desktop Manager

# DESCRIPTION

Checkmark *Enable web browser extension link* in Remote Desktop Manager entries to allow Devolutions Web Login extension to retrieve the credentials when connecting to its respective website.

Remote Desktop Manager	[Customer Success]				•	×
<b>Information</b>						
General More Password Management Security Settings User Interface Information Events Advanced		mbedded (tabbed)	•			
	Website Website Credentials Username Domain Password	Equivalent URLs Default		0		
🕀 Website	Compare type	r extension link Default	<u>One Ti</u>	<u>v Questions</u> me Password Settings (OTP) ettings		
Variables	Search property	n	Create another	ОК	Cano	el

Enable web browser extension link

#### 7.4.3 Secure Devolutions Web Login

### DESCRIPTION

In Remote Desktop Manager version 2021.1 and higher, we changed how our browser extension, Devolutions Web Login, communicates with Remote Desktop Manager to fill in credentials inside web pages. We did these changes to increase the security of this feature. Follow this <u>link</u> for the steps.

If you are using a version prior to 2021.1 and as mentioned in the Devolutions Web Login <u>Overview</u> topic, installing the extension in a Terminal Services environment can introduce security risks. In such environments, each user must have a distinct port assigned, as well as an application key to prevent any other Devolutions Web Login from listening in.

If you insist on using it, it is critical that each user is assigned a distinct port. An application key must be set as well. The first client application that starts will be able to use the port exclusively. ALL Devolutions Web Login calling on that port will get the responses, unless an application key is set. Follow this <u>link</u> for the steps.

# HOW TO SET UP DEVOLUTIONS WEB LOGIN FOR VERSION 2021.1 AND HIGHER



An application key is mandatory if you are using Devolutions Web Login on a Terminal server. Please follow the steps describe <u>here</u>.

When you will first open Devolutions Web Login and choose to use it with Remote Desktop Manager, you will be prompted to pair the two applications.

1. Enter a name, for this association, in the text box.

7	liter	0
	•	
	Not associated with Remote Desktop Manager	
Cł	nrome	9
	Associate with Remote Desktop Manager	
+	Add Website	
$\bigotimes$	Password Generator	>
Q,	Settings	
0	About	>



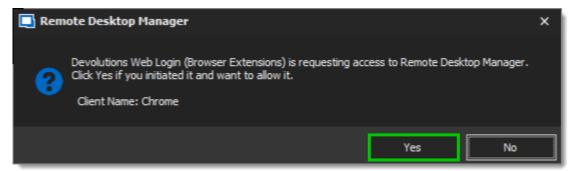
This can be used to identify a particular association and to deny access to it from Remote Desktop Manager. The default name is the name of the web browser running Devolutions Web Login.

2. Click on Associate with Remote Desktop Manager.



A popup window should appear on Remote Desktop Manager asking if the request was actually sent by you.

3. Click Yes to accept the association request.



You are now paired.



Note that, while Remote Desktop Manager can handle multiple associations (e.g., multiple browsers), Devolutions Web Login can only be paired to a single instance of RDM at any time.

# HOW TO SET UP DEVOLUTIONS WEB LOGIN FOR VERSION LOWER THAN 2021.1 AND FOR TERMINAL SERVER



The application key is displayed in clear text, it must be kept secret by the user.

To enable the security layer in Remote Desktop Manager, follow these steps:

1. Navigate to *File – Options – Browser Extensions*.

- 2. Uncheck Use default port.
- 3. Enter a custom port.
- 4. Type an *Application key* then click *OK*

Remote Desktop Manager			×
<ul> <li>✓ General         <ul> <li>Application Start</li> <li>Application Close</li> <li>Notification</li> <li>Proxy (Web)</li> <li>Custom Variables</li> </ul> </li> <li>&gt; User Interface</li> <li>&gt; Types         <ul> <li>Reports</li> <li>Browser Extensions</li> <li>Key Agent</li> <li>Security</li> <li>&gt; Tools</li> <li>Path</li> <li>Cloud</li> <li>&gt; Advanced</li> </ul> </li> </ul>	Devolutions Web Login (Browser Extensions)		
Import Options			
Export Options			
	Search property CK	Cano	el

Remote Desktop Manager Browser Extensions Options

- 5. In your browser, click the Devolutions Web Login icon **★** and go to **Settings Data** *sources RDM*.
- 6. Disable Use default port.
- 7. Enter the custom port created earlier in Remote Desktop Manager and Save.

Settings - RDN	Λ
General	Enable Remote Desktop Manager app
Actions	Use default port (19443)
Advanced	Port 7
	Add entry in user vault by default
	Destination folder
	Devolutions Web Login
	Save Cancel

8. Click *Advanced* and enter the same *Application key* as Remote Desktop Manager.

Settings - RDM	
General	Application key
Actions	
Advanced	Enable native messaging
	Use legacy API
	Save Cancel

Devolutions Web Login Settings for Remote Desktop Manager

#### 7.4.3.1 Unpair a Browser Extension

584

# DESCRIPTION

In the event you want to deny access to Remote Desktop Manager from a previously paired browser extension, you need to delete it from Remote Desktop Manager.

- 1. In RDM go to File Options Browser Extensions.
- 2. In the *Devolutions Web Login Associations* section click the *x* button of the entry in the list and click *OK* to save the modifications.



In the **Devolutions Web Login Associations** section, you will find a list of each association made to Remote Desktop Manager including some information to identify them. This includes the name specified at the time of association (which defaults to the web browser's name), a part of the encryption key used between the two, it's creation date and the date when it was last used.

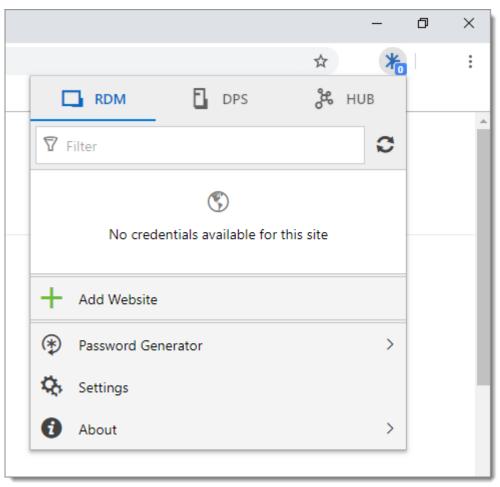
#### 7.4.4 Keyboard Shortcuts

# DESCRIPTION

Here is the list of keyboard shortcuts available for Devolutions Web Login:

#### CTRL+SHIFT+Z

Use this key shortcut to open Devolutions Web Login window in your active browser.



Devolutions Web Login in Chrome

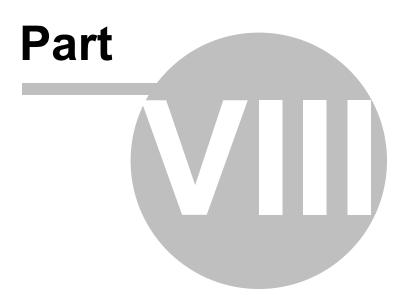
# CTRL+SHIFT+Y

Use it to auto-fill your credential when only one is available for an entry.

Log in to you	
Username	¢
Password	ø
Log	İn
	v 2019.2.7.0

One Credential Login with Devolutions Web Login

# User Groups Based Access Control



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# 8 User Groups Based Access Control

# DESCRIPTION

Remote Desktop Manager user group based access control allows to create a granular protection system that is quite flexible. However, flexibility comes at a price and sometimes making the wrong choices could increase the time involved in managing the system.

The following recommendations are based on our experience with the system and the ideas shared by our community. Follow these guidelines, as they will help you to use the user group based access control efficiently.

Here are the main key points of the user group based access system:

- Security is inherited: child items and folders are covered by a parent folder's security.
- Permissions can be overridden: a permission set on a sub folder will override the parent item's permission.
- Permissions are granular: Multiple permissions can be set on entries at once.

### ENHANCE THE SECURITY

While the user group based access control is a great feature to secure access to entries, many other features can be used to add more security layers. For more information, please consult the following topics:

- Security Provider
- Credential repository
- Password Templates
- <u>Two-factor authentication</u>
- One-time password

#### **SCENARIOS**

Because of the great flexibility of our system, it becomes difficult to describe how to achieve the exact security system that matches your needs. For this reason, we have elected to describe the most popular systems that we have seen in use in our current community of users. We hope that one of them will closely match your needs. You can obviously mix and match the various strategies used in our scenarios to achieve your requirements.

Please consult the following:

- Simplified security
- Advanced security

# **USER GROUPS CONFIGURATION**

When using the user group based access control, user groups are mostly used to control user access for multiple users at once.

#### Common user groups can be:

- Service Desk: a single point of contact to handle incidents, problems and questions from staff and customers. Provide an interface for activities such as change requests, software licences, configuration management, and more.
- Help Desk: manage, co-ordinate and resolve support requests.
- Consultants: employed externally on a temporary basis, they usually are read-only users and can use only a subset of entries.

To be more specific, we will use these team names in our scenarios.

### **CREATE THE USER GROUPS**

To create user groups, navigate to *Administration – User Groups*, then click **+ Add User Groups**.

Remote Desktop Manager -	Jser and Security Manage	ment			×
🕥 User and Se	curity Manage				
Management	Add User Gro	pup 💉 🛃 🕽	K C Filter		
🖁 Users	Image	Name			
🔁 User Groups					
log Vaults					
👰 Licenses					
	•			•	•
				Close	

Create a User Group

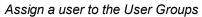
All settings can be left to default unless the user group contains only administrators. In this case, check the **Administrator** box when configuring the user group. Enter a **Name** for the user group, then click **Ok**.

Remote Desktop Manager - User Group Management					×
🔒 User Gro	up Manager	nent			
Canoral	General				
General	ID				
Vaults	Name				
	Description				
Users		Administrator			
			ОК	Cano	el

Configure a User Group

To assign users to the user group, click **b**, then check the **Is Member** box of the respective user.

🔲 Remote Desktop Manager -	User Group Assignment			0	×
🚷 User Group	Assignment				
Name					
Users					
Is Member	Image	Name		Select All	
				Unselect All	
4			*		
			S	ave Cano	cel



# **USER CONFIGURATION**

#### **USER TEMPLATE**

It is possible to change the default user template. To do so, navigate to *File – Options – Security – User Template*. These settings control the default settings of a new user. The best practice is to disable all privileges.

#### CREATE THE USER

To create users, navigate to *Administration – Users*, then click **+** Add User. Enter a **Login** and **Password** for the user and select the **User type**.

Remote Desktop Manager - User Management					
🔓 User Manag	ement				
	General				
General	ID				
User Groups	Authentication type	Database 🔹			
	Username	Integrated	security		
Vaults	Password	Create data	base login/user		
	User type	User 👻			
Application Access	User license type	Default -			
		User must change password at next logon			
Settings	Information				
Information 🗸	First name	Last name			
	Email				
			<b>A</b> <sup>1</sup>	Samuel	
			ОК	Cancel	

Create a user

A user can be assigned to multiple user groups at once by checking the **Is Member** box of the respective user groups in the **User Groups** section of the **User Management**.

🛄 Remote Desktop Manager - U	er Management				×
🔒 User Manag	ement				
*	Roles				
General	Is Member	Small Image	Name		
User Groups					•
Vaults					
Application Access					
Settings					
Information ^					
Details •	٩		Select All Unse	► elect All	•
			ОК	Cance	4

Assign a user to a User Groups

#### **ADMINISTRATORS**

**Administrators** can do everything, regardless of the security. These users are usually the chief officers and senior management.

### **RESTRICTED USERS**

**Restricted users** have limited access to resources. They usually have the **Add** and **Edit** rights only. These users can be mid or first level executives, such as service desk and help desk.

#### USERS

**Users** also have limited access to resources much like Restricted users. However, Users have by default the **Add**, **Edit** and **Delete** rights and can perform these actions on all unsecured entries.

#### **READ ONLY USERS**

**Read only users** can only view and use resources, but cannot edit them. These users are usually external consultants.

#### SELECT THE APPROPRIATE USER TYPE

When creating users, some key points must be taken into consideration. Ask yourself the following questions while configuring a new user:

- Should they be able to access any resource without restriction? These are your **Administrators**.
- Should they be able to add, edit, or delete entries? A **User** would have all of these. Alternatively, you can select specific rights with **Restricted User**.
- Should they be able to see sensitive information, or import and export entries? **Read-Only** users are best used for those who should very limited access.

# **ENTRY CONFIGURATION**

Access is granted or denied to users by setting permission on entries. Permissions can be set to users or user groups. The best practice is to grant permissions to user groups to control access for multiple users at once.

To set permissions on an entry, edit any entry, then navigate to the **Permissions** section.

🔲 Remote Desktop Manager - Windjamn	ner [Default]								×
<b>Folder</b>									
▲	Permission Permissio		Inherited		Ŧ	<b>į</b>	Grant Ac	ccess	
VPN/SSH/Gateway	General View	Security	Attachments	Documentation	More	Allowed			
Custom Fields	Add Edit			Inherited ~		]			
Permissions	Delete			Inherited		]			
Z Password Management		View password Connect (execute)							
<ul> <li>Security Settings</li> <li>Advanced Mode</li> <li>Advanced Mode</li> <li>Device (router, switch, firewall, )</li> <li>Domain</li> <li>Folder</li> <li>Identity</li> </ul>									
Variables	Search prope	erty	ň				ОК	Can	cel

Entry's Permissions

Permissions are usually set on folders, and apply to all child entries. A best practice is to set all the permissions of the Vault folder to **Never**. As a result, all permissions of all entries are denied by default.

emote Desktop Manager - Vault	Settings									
Vault Settings										
General	A Root									
ocherar	Add in root			Data source (Allo	wed)	*				
User Interface	Vault setting	js		Data source (Disa	llowed)	•				
	Inherited P	ermissions								
🗇 Permissions	Permissio	n	Default		•	1	Grant Access			
	General	Security	Attachments	Documentation	More					
Z Password Management	View		Default (/	Allowed)	· · ·					
R Security Settings	Add		Default (/	Allowed)	Ŧ					
(6 second seconds	Edit		Default (/	Allowed)	Ŧ					
Session Recording	Delete		Default (/	Allowed)	Ψ					
	View passv	vord	Default (I	Disallowed)	Ψ					
Documentation	Connect (e	xecute)	Default (/	Allowed)	Ŧ					
Settings	•									
Advanced Mode										
	Search prope	rty	4	n				ж	Can	10

Vault Settings Permissions

Access is denied to users by expressly granting the access to other users. In other words, all users that are not on the list of a permission have the access denied.

For a user to have access to a sub folder, the user must have at least the view permission on all parent folders.

Consider the following structure:

Navigation <b>4</b> ×
豦 Windjammer 💌 🕶
Name
📲 Windjammer
🛛 🐥 Telemark
🖌 🧰 Credentials
🔑 david@telemark
🖌 🏪 Boston
DB 1 (MySQL)
DB 2 (MariaDB)
🛛 🏪 Montreal
🧭 Telemark DC1
🐼 Telemark SQL1

There are three levels of folders: the Vault, Telemark, and child items of Telemark.

Suppose that a user, such as a consultant, must have access to the Montreal folder only. The consultant must be granted the view permission on the Telemark folder as well. However, granting the view access to the Telemark folder gives to the consultant the permissions to view all child items of Telemark. To deny the view permissions for the consultant on specific child items, the view permissions of these items must be expressly set for other users.

Navigation 4 ×	Navigation 4 ×
🅈 Windjammer 💌 🚥	蓤 Windjammer 💌 🕶
Name	Name
📲 Windjammer	A 🔤 Windjammer
Telemark ————————————————————————————————————	A 🖁 Telemark Consultants, Help Desk
🗖 🧰 Credentials	🛶 🚞 Credentials Help Desk
lemark	└── <mark></mark> david@telemark
Boston	🛶 🌆 Boston ———— Help Desk
DB 1 (MySQL)	DB 1 (MySQL)
DB 2 (MariaDB)	DB 2 (MariaDB)
La 🔠 Montreal	La Bontreal
Telemark DC1	
Elemark SQL1	Telemark SQL1

# 8.1 Permission

# DESCRIPTION

The Permission window which is only available in an <u>Advanced Data Source</u>, can be found in every entry properties in the **Permission** section.



The <u>User Group Based Access Control</u> feature is not available using an <u>Devolutions Online Database</u>.

The user group based permission system can give a very accurate control of the security. Here is an overview of the permission window:

Permissio	n	Custom	Grant Access
General	Security	Attachments Documentation	More
View		Default (Allowed)	•
Add		Default (Allowed)	•
Edit		Custom	•
		Select user groups or users	ŝ
Delete		Default (Allowed)	•
View passv	vord	Default (Disallowed)	•
Connect (e	xecute)	Default (Allowed)	•

Permission panel

	DESCRIPTION
Permission	<ul> <li>Sets the permission mode. Select between:</li> <li>Inherited (Default): will inherit the permissions from the parent groups.</li> <li>Custom: lets you specify a custom value for each of the permission.</li> </ul>

	<ul> <li>Everyone: everyone will be granted all the permissions below.</li> <li>Never: no one but the administrators will be granted the permission.</li> </ul>
Grant Access	Allows batch granting access to a specific entry or entries.
Inherited values	Indicates what is inherited from parent groups.
Select user groups or users	Lets you select Users / User groups to be granted the permission. Available only if the permission is set to <b>Custom</b> .

🔲 Remote Desktop Manager - Batch Grant Access						×
🔏 Batch Grant Ac	c					
	cess					
Permissions	Users and User Group	s –				
View	Enter text to search			Find		
Add	Image		Туре	Description		
Edit	Intege		1100	beschpaon		
_	8		User group			
View password						
Connect (execute)	<b>AL</b>		User			
Edit permissions						
Entry history	<u>.</u>		User			► ▼
Password history	Selected					
View attachments	Image		Туре	Description		
Add/edit/delete attachments			Double click item to add to selection			
View documentation			Double click item to add to selection	'n		
Edit documentation						
Edit asset						
Remote tools						
Inventory						
	•					•
				ОК	Canc	el

Batch Grant Access

#### 8.2 Scenarios

8.2.1 Simplified Security

# DESCRIPTION

This feature is only available when using an <u>Advanced Data Source</u>.

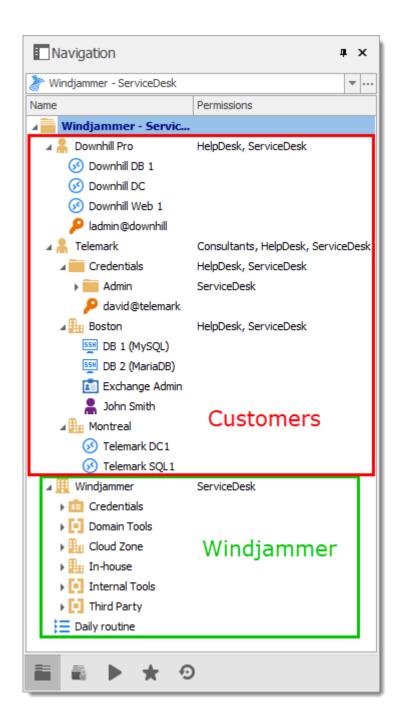


While the following scenario is relevant for small to medium enterprises, it is not recommended for a larger business. For a scenario more suited for large enterprises, please consult the <u>Advanced Security</u> scenario.

🜔 Watch Video

Our fictional company, Windjammer, has four User Groups: HelpDesk, ServiceDesk, Administrations, and Consultants. There are two client companies: Downhill Pro and Telemark.

The following tree structure represents entries which users have access to once all permissions are set:



# **USER CONFIGURATION**

Here is an example for user configuration. To create users, navigate to *Administration* – *Users* – *Add User*.

The following rights selection is available when setting a user to **Restricted user**.

Remote Desktop Manager -	User Management			×
🔒 User Mana	gement			
General	General			
	ID			
User Groups	Authentication type	Database •		
	Username	Integrated security		
Vaults	Password	Create database login/u	ser	
	User type	Restricted user		
Application Access	User license type	Default 🔹		
		User must change password at next logon		
Settings	Rights			
Information ~	Add			
	Edit	Move		
	Information			
	First name	Last name		
	Email			
		ОК	Cano	el

User Management - Rights Section

**Administrators**: administrators have a lot more access than regular users. When creating these users, set the User type to **Administrator** to give them access to everything. The administrator can access all entries, regardless of permissions.

	General		
General	ID		
User Groups	Authentication type	Database	•
	Username		Integrated security
Vaults	Password		✓ Create database login/user
	User type	Administrator	
Application Access	User license type	Default	
		User must change password at next logon	
Settings	Information		
Information	✓ First name	Last name	
	Email		

User Management - Administrator

**Regular users (User)**: these users have fewer rights than administrators. They essentially have all the basic rights (except for **View Password**) but are susceptible to all denied permissions. Later, we will deny these rights by specifying which users can actually perform these actions.

**Consultants**: consultants can only view a subset of entries, we will set those as **Read-Only**. They cannot add, edit or otherwise affect the information in any way.

# **USER GROUPS CONFIGURATION**

Now that the users are created, we will add the user groups which we will later grant the permissions to. We need to create the user groups to assign users to them. There is no need to grant any privileges to these user groups.

- ServiceDesk
- HelpDesk
- Consultants

Remote Desktop Manager -	User and Security Ma	anagement			×
🕥 User and Se	ecurity Man	agement			
Management	Add U	ser Group 💉 👔	XC Filter		
Users	Image	Name			
🔀 User Groups					
le Vaults					
👰 Licenses					*
	•				•
				Close	e

User and Security Management - User Groups

### **ENTRIES CONFIGURATION**

Now, everything is ready to grant or deny access to the user groups.

- The ServiceDesk will have the permission to view and open all entries but will be able to edit only the entries in the customer groups/folders.
- The HelpDesk will have the permission to view and open entries in the customer groups/folders only and will not be able to edit them.
- The Consultants will have the permission to view and open entries in the Montreal folder only but will not be able to edit it nor its child items.

We will begin with the Vault level folders: Downhill Pro, Telemark and Windjammer.

The permission to view the Windjammer folder will be set for the ServiceDesk only since we want them to be able to use its child entries. We don't want the ServiceDesk to add or edit anything. We will set the **Add**, **Edit** and **Delete** permissions to **Never**. Only the administrator will be able to add or edit entries in the Windjammer folder.

Remote Desktop Manager	- Customer [Default]		×
Folder			
General More	Permissions		_
Permissions	Permission Custom -		
Password Management Security Settings	General Security More Attachments Documentation		
Session Recording User Interface	View Custom -		<b>^</b>
VPN/SSH/Gateway Information	Add Never		
Advanced			
	Edit vever -		
	Delete ver v		
💄 💿 Customer	View password Inherited  View password  Inherited  View password		
E O Database	Connect (Execute) Inherited  Allowed		~
Similar Conter, Switch, firewall,)	Security Group (Legacy)		_
Domain	Security group None Inherited Group		-
Eolder	Group Security Group (Legacy)		
₫ ◯ <u>Identity</u>			
Variables	Search property 🔥	Can	el

Windjammer - Permissions

- View: Custom; ServiceDesk.
- Add: Never; Only the administrator can add entries.
- Edit: Never; Only the administrator can edit entries.
- Delete: Never; Only the administrator can delete entries.

For Downhill Pro, we will grant permissions to the ServiceDesk and the HelpDesk.

Permissions			
Permissio	n	Custom -	
General	Security	More Attachments Documentation	
View		Custom -	
		HelpDesk, ServiceDesk	
Add		Custom	
		ServiceDesk	
Edit		Custom -	
		ServiceDesk	
Delete		Never -	
View passw	ord	Inherited	

Downhill Pro - Permissions

- View: Custom; HelpDesk, ServiceDesk.
- Add: Custom; ServiceDesk.
- Edit: Custom; ServiceDesk.
- Delete: Never; Only the administrator can delete entries.

We already have a good example of the flexibility of Remote Desktop Manager's Security. A ServiceDesk user can view and use all the entries in the Downhill Pro folder, even the credential entries, but it will never be able to see any password since View Password is Disallowed (from the Vault folder).

Next, for the Telemark folder, we will grant permissions to the ServiceDesk, the HelpDesk and the Consultants. This is where things get complex. If we want the Consultants to be able to view only the Montreal folder which is a child item of Telemark, we must grant to consultants the permission to view the entire Telemark content. Then we will grant permissions on child items only to the user group that should have access to these items. This last step will deny the view permission for the consultants on the child items.

Permission	;		
Permission		Custom -	
General	Security	More Attachments Documentation	
View		Custom -	
		Consultants, HelpDesk, ServiceDesk	
Add		Custom 👻	
		ServiceDesk	
Edit		Custom 👻	
		ServiceDesk	
Delete		Never -	
View passw	ord	Inherited	

Telemark - Permissions

- View: Custom; Consultants, HelpDesk, ServiceDesk.
- Add: Custom; ServiceDesk.
- Edit: Custom; ServiceDesk.
- Delete: Never; Only the administrator can delete entries.

Since we want the users to be able to use the credential entries, we will grant the ServiceDesk and the HelpDesk the permission to view the Credentials folder. This way, the ServiceDesk and HelpDesk will be able to use the entries in the folder without revealing the passwords. Therefore, by specifying that only the HelpDesk and ServiceDesk have the **View** permission, we deny the view access to any user group or user that is not in the list of the permission.

The **Add**, **Edit** and **Delete** permissions can be left to **Inherited** since they inherit the settings from the Telemark parent folder. The ServiceDesk is the only user group that has been granted the **Add** and **Edit** permission in the parent folder and the **Delete** permission inherits the Never setting.

Permissio	n	Cus	tom	•	
General	Security	More	Attachments	Documentation	
View		Cu	stom	•	
		He	lpDesk, ServiceDe	<u>sk</u>	
Add		Ini	nerited	*	
Edit		Inł	nerited	•	
Delete		Int	nerited	+	
View passv	vord	In	nerited	•	
Connect (E	xecute)	Inł	nerited	•	

Telemark\Credentials - Permissions

- View: Custom; HelpDesk, ServiceDesk.
- Add: Inherited; ServiceDesk inherited from Telemark folder.
- Edit: Inherited; ServiceDesk inherited from Telemark folder.
- **Delete**: **Inherited**; Never inherited from Telemark folder.

We want the ServiceDesk to be able to use the Domain Admin credential entry as well but not the HelpDesk. For this we must grant the **View** permission to the ServiceDesk. The ServiceDesk will still be able to edit the credential entry but will never see the password. The delete permission is set to **Never**.

Permission		Cus	tom	-	
General	Security	More	Attachments	Documentation	
View		Cu	stom	•	
		He	lpDesk, ServiceDe	<u>sk</u>	
Add		Int	Inherited 👻		ServiceDesk
Edit		Inh	Inherited 👻		ServiceDesk
Delete		Ne	ver	-	
View password		Int	nerited	•	Disallowed
Connect (Execute)			nerited	*	Allowed

The last step for the Telemark child items is to set the **View** permission to the ServiceDesk and the HelpDesk on the Boston folder and leave every other permission of this folder to **Default**. This denies the Consultants to view the Boston folder. Now, the Consultants will be able to view and open entries only in the Montreal folder.

Permission			tom	-	
General	Security	More	Attachments	Documentation	
View		Cu	stom	•	
		Hel	pDesk, ServiceDe	<u>sk</u>	
Add		Inh	erited	•	ServiceDesk
Edit		Inh	erited	-	ServiceDesk
Delete Never -				•	
View password Inherited -				-	Disallowed
Connect (Execute)				+	Allowed

Telemark\Boston - Permissions



Every time a new folder is added, the **View** permission must be set for ServiceDesk and HelpDesk to hide the new folder and its content from the Consultants.

No need to set any permissions on the Montreal folder, since they are inherited from the parent folders.

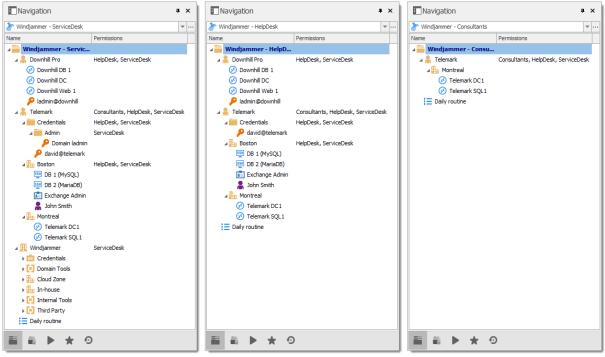
Permission		Default		-	
General	Security	More	Attachments	Documentation	
View	View		nerited	Ŧ	Consultants, HelpDesk, ServiceDesk
Add	Add		Inherited ~		ServiceDesk
Edit	Edit		Inherited -		ServiceDesk
Delete		Inł	nerited	Ŧ	Never
View passw	ord	Inł	nerited	v	Disallowed
Connect (E	Connect (Execute)		Inherited -		Allowed

Telemark\Montreal - Permissions

# IN CONCLUSION

The permissions are now correctly set. Note that every entry added at Vault level will have no security by default. This means they would be available for anyone, even the consultants. This can be confirmed by looking at the screenshot below in which the

entry **Daily routine** is available for everyone. Here is what each user should see in the tree view:



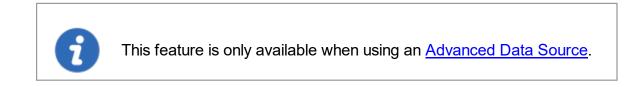
Side by Side Tree View

You can further customize your permissions by using the **Security Settings** tab when editing entries, or the **Logs** tab to add more traces of coming and goings. As always, great care must be taken when granting permissions.

If you need more details on each permission, please consult our Common Settings – Permissions topic.

#### 8.2.2 Advanced Security

# DESCRIPTION



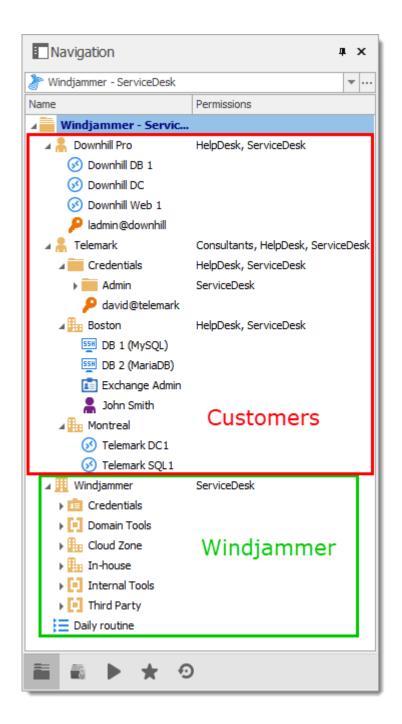


The following scenario is designed for large enterprises. For a scenario more suited for small enterprises, please consult our <u>Simplified Security</u> scenario.

While this example fits for large enterprises, please keep in mind that any privilege should be granted only as necessary. Be careful when granting permissions to a user or a user group.

Our fictional company, Windjammer, has three user groups: HelpDesk, ServiceDesk, and Consultants. There are two client companies: Downhill Pro and Telemark.

The following tree view structure represents entries which users have access to once all permissions are set:



#### **USER CONFIGURATION**

Here is an example of user configuration. To create users, navigate to *Administration* – *Users* – *Add User.* 



In this scenario, all the options in the **Privileges** section of the **User Management** are set to **None**.

Here we select the user type to give them the most basic rights (Add, Edit, and Delete).

**ServiceDesk** users are **Restricted users**. They have the **Add** and **Edit** rights. However, they cannot add entries into the Vault folder.

oser Mar	agement		
General	General		
User Groups	Authentication type	Database •	
14 - B-	Username Password	Integrated security  Create database login/user	
Vaults	User type	Restricted user	
Application Access	User license type	Default  User must change password at next logon	
Settings	Rights		
Information	✓ Add	Move	
	Delete		
	First name	Last name	
	Email		

User Management - ServiceDesk - Restricted User

**HelpDesk** users are **Restricted Users** as well. They only have the **Add** right. However, they cannot add entries into the Vault folder.

Remote Desktop Manager - User Management					
🖁 User Mana	agement				
General	General				
	ID Authentication type	Database			
User Groups	Username	Integrated security			
Vaults	Password	Create database login/user			
Application Access	User type User license type	Restricted user			
		User must change password at next logon			
Settings	Rights				
Information	✓ Add Edit	Move			
	Delete				
	First name	Last name			
	Email				
		ОК	Can	cel	

User Management - HelpDesk - Restricted User

**Consultants** are **Read Only Users** and can only view a subset of entries. They cannot add or edit anything.

# **USER GROUPS CONFIGURATION**

Now that the users are created, we will add the user groups which we will later grant the permissions to. We need to create the user groups and assign the respective user to each user group. There is no need to grant any privilege to these user groups since they are mainly empty shells used to group multiple users. This allows for controlling multiple users at once instead of granting permissions to each users, one at a time. • ServiceDesk

- ServiceDesk
- HelpDesk
- Consultants

To add a user group, click the **Add User Group** + button, enter a name for the user group, and click **Ok**.

To assign users to a user group, select a user group and click the **Assign User Groups** what button. Use the **Is Member** check boxes to add users to the user group.

Remote Desktop Manager	- User and Security Mai	agement	
🕥 User and S	Security Man	gement	
Management	Add Use	Group 🖉 🍓 🗙 💭 Filter	
Users	Image	Name	
🎦 User Groups			
le Vaults			
Licenses			
	•		•
			Close

User and Security Management - User Groups

# ENTRY CONFIGURATION

Now, everything is ready to grant or deny access to the user groups.

- All Vault folder permissions are set to **Never**. By inheritance, this denies the child items default access to everyone.
- The ServiceDesk has the permission to view and open all entries but is able to edit only the entries in the client's groups/folders.
- The HelpDesk has the permission to view and open entries in the client's groups/folders only and is not able to edit them.
- The Consultants have the permission to view and open entries in the Montreal folder only but is not able to edit it or its child items.

#### Vault Settings

As mentioned above, **ALL** Vault settings folder permissions are set to **Never**. This denies the default access to other users.

Remote Desktop Manager - V	ault Settings	٥	×
Vault Settin	gs		
S User Interface	Add in root		
Permissions	Vault settings Never   Inherited Permissions		
Z Password Management	Permission Never 🔹 Grant Act	ess	]
Advanced Mode	•		
	Search property DK	Can	cel

Vault Settings - Permissions

#### Windjammer Downhill Pro, and Telemark, the Vault level groups/folders

The permission to view the Windjammer folder is set for the ServiceDesk only since we want them to be able to use the child entries. We don't want the ServiceDesk to add, edit or delete anything. We leave the **Add**, **Edit** and **Delete** permissions to **Inherited** so only the administrators can perform these action on the Windjammer folder and its child items.

🔲 Remote Desktop Manager	r - Test [Default]	t [Default]					
Folder							
General More	Permissions		-				
Permissions	Permission Custom -						
Password Management Security Settings	General Security More Attachments Documentation						
Session Recording User Interface	View Custom -		^				
VPN/SSH/Gateway Information	Add Inherited - Never						
Advanced	Add Tuberted						
	Edit Inherited   Never						
E Ocompany	Delete Inherited  Vever						
Lustomer	View password Inherited   Never						
Database	Connect (Execute) Inherited		*				
Solution in the second	Security Group (Legacy)						
	Security groupNone						
Domain	Inherited Group Security Group (Legacy)						
Eolder							
₫ ◯ <u>Identity</u>							
Uariables	Search property CK	Can	cel				

Windjammer - Permissions

• View: Custom; ServiceDesk.

- Add: Inherited; Never inherited from Vault. Only the administrator can add entries.
- Edit: Inherited; Never inherited from Vault. Only the administrator can edit entries.
- **Delete: Inherited; Never** inherited from Vault. Only the administrator can delete entries.

For Downhill Pro, we grant permissions to the ServiceDesk and the HelpDesk.

Permissio	n	Cus	tom	-	
General	Security	More	Attachments	Documentation	
View		Cu	stom	-	
		Hel	pDesk, ServiceDe	<u>sk</u>	
Add		Cu	stom	•	
		Ser	viceDesk		
Edit		Cu	Custom		
		Ser	viceDesk		
Delete		Inh	erited	*	
View passw	ord	Inh	erited	•	

Downhill Pro - Permissions

- View: Custom; HelpDesk, ServiceDesk.
- Add: Custom; ServiceDesk.
- Edit: Custom; ServiceDesk.
- **Delete: Inherited; Never** inherited from Vault. Only the administrator can delete entries.

We already have a good example of the flexibility of Remote Desktop Manager Security. ServiceDesk and HelpDesk users can view and use all the entries in the Downhill Pro folder, even the credential entries, but they will never see any passwords since the ServiceDesk and HelpDesk users do not have the privilege to reveal passwords.

Next, for the Telemark folder, we grant permissions to the ServiceDesk, the HelpDesk and the Consultants. This is where things get complex. If we want the Consultants to be able to view only the Montreal folder, which is a child item of Telemark, we must grant Consultants the permission to view the parent folder, thereby the entire Telemark content. Then we will grant permissions on child items only to the user group that should have access to these items. This last step will deny the view permission for the Consultants on the child items.

Permissio	n	Cus	tom	-
General	Security	More	Attachments	Documentation
View		Cu	stom	•
		Co	nsultants, HelpDe	sk, ServiceDesk
Add		Cu	stom	•
		Sei	rviceDesk	
Edit		Cu	stom	*
		Ser	rviceDesk	
Delete		Ini	nerited	-
View passw	ord	Ini	nerited	Ŧ

Telemark - Permissions

- View: Custom; Consultants, HelpDesk, ServiceDesk.
- Add: Custom; ServiceDesk.
- Edit: Custom; ServiceDesk.
- **Delete: Inherited; Never** inherited from Vault. Only the administrator can delete entries.

#### **Telemark Child Items**

Since we want the users to be able to use the credential entries, we grant the ServiceDesk and the HelpDesk the permission to view the Credentials folder. Therefore, the ServiceDesk and HelpDesk are able to use the entries in the folder without revealing the passwords. By specifying that only the HelpDesk and ServiceDesk have the **View** permission, we deny the view access to any user group or user that is not on the list of the permission.

The **Add** and **Edit** permissions are set to **Never** and the **Delete** permission can be left to **Inherited** since it inherits the **Never** settings from the Vault. Only the administrators can perform these actions in groups/folders containing credentials.

n	Cust	Custom -		
Security	More	Attachments	Documentation	
	Cus	stom	•	
	Hel	pDesk, ServiceDe	<u>sk</u>	
	Nev	ver	•	
	Nev	ver	+	
	Inh	erited	-	
word	Inh	erited	•	
Execute)	Inh	erited	•	
		Cus Hell Nev Inh ord Inh	Custom HelpDesk, ServiceDe Never Inherited Inherited	

Telemark/Credentials - Permissions

- View: Custom; HelpDesk, ServiceDesk.
- Add: Never; Only administrators can add credential entries.
- Edit: Never; Only administrators can edit entries.
- Delete: Inherited; Never inherited from Vault. Only administrators can delete entries.

We want the ServiceDesk to be able to use the **Domain ladmin** credential entry, but not the HelpDesk. For this, we must grant the **View** permission to the ServiceDesk. The ServiceDesk is still be able to use the credential entry but will never see the password.

Permission		Cus	tom	-	
General	Security	More	Attachments	Documentation	
View		Cu	stom	-	
		<u>Ser</u>	<u>viceDesk</u>		
Add		Inh	nerited	-	Never
Edit		Inh	nerited	-	Never
Delete		Inh	nerited	*	Never
View passwo	ord	Inh	nerited	-	Never
Connect (Ex	ecute)	Inh	nerited	-	Never

Telemark\Credentials\Admin - Permissions

- View: Custom; ServiceDesk.
- Add: Inherited; Never inherited from Vault. Only administrators can add credential entries.

- Edit: Inherited; Never inherited from Vault. Only administrators can edit credential entries.
- **Delete: Inherited; Never** inherited from Telemark\Credentials. Only administrators can delete credential entries.

The last step for the Telemark child items is to set the **View** permission to the ServiceDesk and the HelpDesk on the Boston folder and leave every other permissions of this folder to **Inherited**. This denies the Consultants to view the Boston folder. Now, the Consultants are able to view and open entries only in the Montreal folder.

Permissio	n	Custom -		-		
General	Security	More	Attachments	Documentation		
View		Cu	stom	-		^
		He	pDesk, ServiceDe	<u>sk</u>		
Add		In	nerited	•	ServiceDesk	
Edit		Inł	nerited	•	ServiceDesk	
Delete		Int	nerited	+	Never	
View passw	ord	Inł	nerited	•	Never	
Connect (E	xecute)	Inł	nerited	-	Never	¥

Telemark\Boston - Permissions

- View: Custom; HelpDesk, ServiceDesk.
- Add: Inherited; ServiceDesk inherited from Telemark.
- Edit: Inherited; ServiceDesk inherited from Telemark.
- Delete: Inherited; Never inherited from Vault.



Every time a new folder is added as a child of the Telemark folder, the **View** permission must be set for ServiceDesk and/or HelpDesk to hide the new folder and its content from the Consultants.

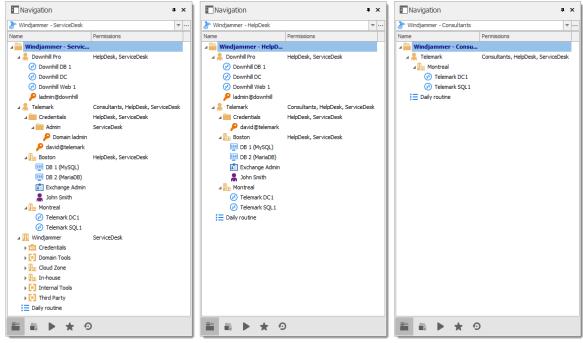
There is no need to set any permissions on the Montreal folder, since they all inherit values from parent folders.

Permissio	n	Defa	ault	•	
General	Security	More	Attachments	Documentation	
View	View Inherited ~		Ŧ	Consultants, HelpDesk, ServiceDesk	
Add	Inherited			÷	ServiceDesk
Edit		Inh	Inherited		ServiceDesk
Delete		Inherited ~		÷	Never
View passw	ord	Inherited -			Never
Connect (E	xecute)	Inherited -			Never

Telemark\Montreal - Permissions

# IN CONCLUSION

The permissions are now correctly set. Note that every entry added at Vault level are inheriting from the Vault as well. This means they would be available to admins only, unless their permissions were modified. This can be confirmed by looking at the screenshot below, in which the entry **Daily routine** is available for everyone (It's permissions have been changed to Everyone. Here is what each user should see in the tree view:



Side by Side Tree View

You can further customize permissions by using the **Security Settings** tab when editing entries. As always, great care must be taken when granting permissions.

# 8.3 Legacy Information

# DESCRIPTION

Describing such a flexible security system takes a lot of effort. This chapter contains valuable information, but that may have been optimized by a newer topic.

#### 8.3.1 Small to Medium Enterprise

# DESCRIPTION

Here we will give you a security structure example that should be relevant for small to medium business.

In this scenario, all the options in the *Privileges* section of the user properties will be left disabled.

While this example might fit for many enterprises, please keep in mind that any privilege should be granted only if needed. Be extremely careful when granting permissions to a user or a user group.



This feature is only available when using an Advanced Data Source.

#### STEPS

Our fictional company *Windjammer* has a *HelpDesk* and a *ServiceDesk* department, an administrator and a *MontrealConsultant*. We can also see two customers: *Downhill Pro* and *Telemark*.

Here is a view of the data source tree view structure:

Navigation	<b>џ</b> Х
Windjammer (admin)	▼
Name	Permissions
🔺 盲 Windjammer (admin)	
🔺 🐥 Downhill Pro	HelpDesk, ServiceDesk
🔑 administrator@downhill	
🐼 Downhill DB 1	
🐼 Downhill DC	
🐼 Downhill Web 1	
🔺 🐥 Telemark	HelpDesk, MontrealConsultant, ServiceDesk
a Credentials	HelpDesk, ServiceDesk
Admin	ServiceDesk
🔑 Domain admin	
🔑 david@telemark	
a 🌆 Boston	HelpDesk, ServiceDesk
DB 1 (MySQL)	
DB 2 (MariaDB)	
💼 Exchange Admin	
💄 John Smith	Cutsomers
🛛 🌆 Montreal	
🐼 Telemark DC 1	
Telemark SQL1	
🛛 🛄 Windjammer	ServiceDesk
Credentials	
▶ 🔃 Domain Tools	
🕨 🏪 Cloud Zone	
🕨 🏪 In-house	Windjammer
Internal Tools	windjammer
▶ 🔃 Third Party	
Daily routine	
■ ● ★ ⊙	0

Windjammer tree view structure

# USER CONFIGURATIONS

Here is an example for user configurations.

The administrator:

• When creating the user, select the *Administrator* in the dropdown menu to give it access to everything.

Remote Desktop Manag							
User Mar	nagement						
	General						
General	ID	9914D1D1-7E4E-47EF-9	3AA-3F47DB6D9654				
User Groups	Authentication type	Database		*			
	Username			Integr	rated security		
Vaults	Password			✓ Create	e database login/u	iser	
	User type	User	*				
Application Access	User license type	Administrator					
		User Restricted user	at next logon				
Settings		Read-only user					
	Information						
Information	✓ First name		Last name				
	Email						
					ОК	Can	nce

Administrator Permission

The ServiceDesk:

- Add
- Edit
- Deny add entry in root folder

General	Rights	
<ul> <li>Information</li> </ul>	Add	Deny add entry in root folder
Details Address	🗹 Edit	
Phone	Delete	-
Roles		
Privileges		
Permissions		
Settings		

ServiceDesk Rights

The HelpDesk:

- Add
- Deny add entry in root folder

General	Rights
<ul> <li>Information</li> </ul>	Add Deny add entry in root folder
Details	Edit
Address	
Phone	Delete
Roles	
Privileges	
Permissions	
Settings	

HelpDesk Rights

The MontrealConsultant has read-only access. He cannot see any password or entry detail.

• Leave everything disable for this user

General	Rights
<ul> <li>Information</li> <li>Details</li> </ul>	Add
Address	🗖 Edit
Phone	Delete
Roles	
Privileges	
Permissions	
Settings	

#### MontrealConsultant Rights

# USER GROUPS CONFIGURATION

Now that the users are created we will add the user groups to which we will later grant the permissions. We just need the user groups to assign users to them. No need to grant them any privileges.

- ServiceDesk
- HelpDesk
- MontrealConsultant

#### **ENTRIES CONFIGURATION**

Now everything is ready to grant or deny access to the user groups.

- The ServiceDesk will have the permission to view and open all entries but will be able to edit only the entries in the customer groups/folders.
- The HelpDesk will have the permission to view and open entries on the customer groups/folders only and will not be able to edit them.
- The MontrealConsultant will have the permission to view and open entries on the Montreal goup/folder only and will not be able to edit it nor its child items.

We will begin with the root level groups/folders: Downhill Pro, Telemark and Windjammer.

For Downhill Pro, we will grant permissions to the ServiceDesk and the HelpDesk.

🗖 Remote Desktop Manager - Downhill Pro 🦳 🗆 🗙					×		
Group/Folder							
General	Security Group						
More Security	Security group	<none></none>				~	
Permissions User Interface	Inherited	Group		Security Grou	p		
Image: Company     ^       Image: Customer     ^	Permissions Permission		Custom	~			-
Database Device (router, switch, firewall, switch, firewall, switch)	General Security	y Attachm	Custom HelpDesk, ServiceDesk	~			
Domain	Add		Custom ServiceDesk	~			
Group/Folder	Edit		Custom ServiceDesk	~			
	Delete		Default	~			
👯 Variables			<u>41</u>		OK	Cano	tel

Downhill Pro - Permissions

- View: HelpDesk, ServiceDesk
- Add: ServiceDesk
- Edit: ServiceDesk
- Delete: Since no user have the delete right we can leave this permission to Default.

We already have a good example of the flexibility of Remote Desktop Manager's Security. A ServiceDesk user can view and open all the entries in the Downhill Pro folder, even the credential entry, but it will never be able to see any password.

Next for the Telemark folder, we will grant permissions to the ServiceDesk, the HelpDesk and the MontrealConsultant. This is where things get complex. If we want the MontrealConsultant to be able to view only the Montreal folder which is a child item of Telemark, we must grant to the consultant the permission to view the entire Telemark content. Then we will grant permissions on child items only to the user group that should have access to these items. This last step will deny the view permission for the consultant on the child items.

Permissions			
Permission	Custom ~		
General Security Attach	ments		
View	Custom ~		
	HelpDesk, MontrealConsultant, ServiceDesk		
Add	Custom ~		
	ServiceDesk		
Edit	Custom ~		
	ServiceDesk		
Delete	Default 🗸		

Telemark - Permissions

- View: HelpDesk, MontrealConsultant, ServiceDesk
- Add: ServiceDesk
- Edit: ServiceDesk
- Delete: Default

Since we want the users to be able to use the credential entries, we will grant the ServiceDesk and the HelpDesk the permission to View the Credentials folder. This way they will be able to use the entries without being able to view the passwords.

The *Add* and *Edit* permissions can be left to *Default* since the ServiceDesk is the only user group that has been granted these permissions in the parent folder.

Permissions	Permissions				
Permission	Custom ~				
General Security Attachm	nents				
View	Custom ~				
	HelpDesk, ServiceDesk				
Add	Default				
Edit	Default 🗸 ServiceDesk				
Delete	Default ~				

Telemark\Credentials - Permissions

- View: HelpDesk, ServiceDesk
- Add: Default
- *Edit*: Default
- Delete: Default

We want the ServiceDesk to be able to use the Domain Admin credential entry as well but not the HelpDesk. For this we must grant the *View* permission to the ServiceDesk only and change the *Add* and *Edit* permission to *Never*. The ServiceDesk will still be able to edit the credential entry but will never see the password. If you prefer you can set the *Edit* permission to an Administrator user or user group to deny it to the ServiceDesk.

Permissions				
Permission	Custom ~			
General Security Attachm	ents			
View	Custom ~			
	<u>ServiceDesk</u>			
Add	Default $\checkmark$	ServiceDesk		
Edit	Custom ~			
	Admin			
Delete	Default $\vee$			
		1		

Telemark\Credentials\Admin - Permissions

- View: ServiceDesk
- Add: Default (ServiceDesk)
- Edit: Default or Administrator user/user group
- Delete: Default

The last step for the Telemark child items would be to set the *View* permission to the ServiceDesk and the HelpDesk on the Boston folder and leave every other permission to *Default*.

Now the MontrealConsultant will be able to view and open entries only in the Montreal folder. Every time a new folder is added the *View* permission must be set for ServiceDesk and HelpDesk to hide the new folder and its content from the consultant.

Permissions				
Permission	Custom ~			
General Security Attachm	ents			
View	Custom ~			
	HelpDesk, ServiceDesk			
Add	Default ~	ServiceDesk		
Edit	Default $\vee$	ServiceDesk		
Delete	Default $\checkmark$			

Telemark\Boston - Permissions

- View: HelpDesk, ServiceDesk
- Add: Default (ServiceDesk)
- Edit: Default (ServiceDesk)
- **Delete**: Default

No need to set any permissions on the Montreal folder, since they are inherited from the parent folders.

Permis	sion	Default	~
General	Security	Attachments	
View		Default	HelpDesk, MontrealConsultant, ServiceDesk
Add		Default	ServiceDesk
Edit		Default	ServiceDesk
Delete		Default	$\sim$

#### Telemark\Montreal - Permissions

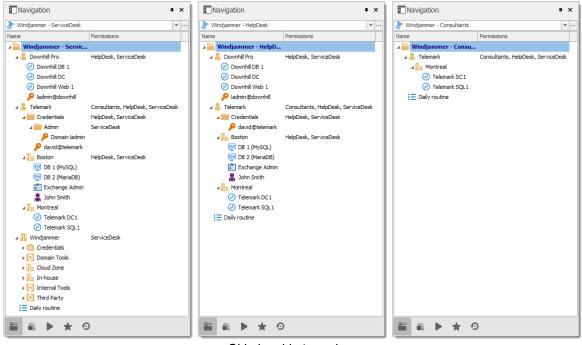
Finally, the permission to view the Windjammer folder will be set for the ServiceDesk only since we want them to be able to use its child entries. We don't want them to add or edit anything so we will set the *Add* and *Edit* permissions to the Administrator user/user group.

Permissions	Permissions				
Permission	Custom ~				
General Security Attachn	nents				
View	Custom ~				
	ServiceDesk				
Add	Custom ~				
	Admin				
Edit	Custom ~				
	Admin				
Delete	Default ~				

Windjammer - Permissions

# IN CONCLUSION

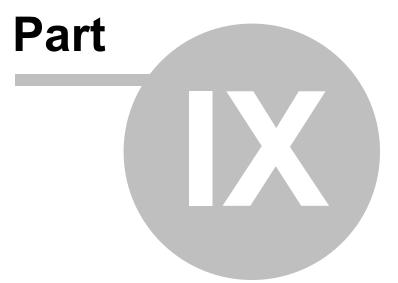
The permissions are now correctly set. Note that every entry added higher than the root level groups/folders will have no security by default. This means they would be available for anyone, even the consultant. This can be confirmed by looking at the screenshot below in which the entry Daily routine is available for everyone. Here is what each user should see in the tree view:



Side by side tree views

You can go further with granting permissions by using the **Security** and **Attachments** tabs of the permissions section. As always, a great care must be taken when granting permissions and users should have very strict privileges.

# PowerShell Scripting



# 9 PowerShell Scripting

# DESCRIPTION



We have moved to a GitHub repository to hold our various samples and recipes. Please consult the content of our <u>GitHub repository</u> to see what's available. Questions and samples should be requested on our <u>forum</u> and our team will be glad to assist you.

There are two ways to interact with Remote Desktop Manager using PowerShell:

<u>Module</u>	Remote Desktop Manager PowerShell Module: a module that exposes many cmdlets that are used to "pilot" a LOCAL installation of Remote Desktop Manager. As such, its quite different from most of the modules available out there since the great majority is used to communicate with a remote service. This means that it requires an interactive Windows session in a user context.
<u>Custom</u> <u>Actions</u>	Snippets of PowerShell code that can be executed directly in Remote Desktop Manager. The actions can be initiated using <i>Edit – Edit (Special Actions), Custom PowerShell Command.</i> The advantages of this approach are:
	1. No need to handle loading of the appropriate module for the instance of Remote Desktop Manager.
	2. No need to handle filtering of entries, most of the times you would perform manual selection directly in your navigation pane, or even better use the advanced search to select entries in one fell swoop.

# 9.1 Tips and tricks

# DESCRIPTION

We are always asked for a full list of property names and sadly it is extremely hard to provide for multiple reasons. The best way is still to look at the xml structure of an entry of the proper type to identify the field names.

# **REVERSE ENGINEERING AN ENTRY'S STRUCTURE**

- 1. Create an entry of the needed type, add only mandatory data at this time. Save the entry.
- 2. Right-click on the entry, then use *Clipboard Copy*.
- 3. In the dialog that appears, switch to the **Preview** tab, copy the xml structure to a text file. This is the **BEFORE**.
- 4. Manually perform the modification to the entry that you would like to automate using PowerShell, save the entry.
- 5. Using *Clipboard Copy*, save the modified xml to another file. This is the AFTER.
- 6. Compare the two files with your favorite difference tool, you will see the fields that have changed, and the values that have been assigned. This indicates what your script should do.

# ESSENTIAL INFORMATION ABOUT REMOTE DESKTOP MANAGER'S XML FORMAT

- To save space, most fields have a default value and when the field contains that default value, it simply does **NOT** appear in the content. That is why you must watch out for new fields that appear in the AFTER content.
- Credentials are handled in a special way. They contain a GUID when they refer to other entries, but they hold Well-Known static GUIDs when they use other mechanisms.

Default	""
Credential repository Prompt on connection	"45479560-173E-435D-8848- C22F863FDC96"
Embedded	should be used for backwards compatibility only, we prefer not to list it here.
Parent (only for sub- connections)	"E2CC9029-CA3A-4308-BA54- 16D5029BC8ED"
Inherited	"1310CF82-6FAB-4B7A-9EEA- 3E2E451CA2CF"

	WELL KNOWN GUID
My personal credentials	"9F3C3BCF-068A-4927-B996- CA52154CAE3B"
None	"B87B29D9-9239-4D7B-86D8- 9B53DCD3BA9F"
User Vault, paired with PersonalConnectionID	"245A4245-48E7-4DF5-9C4C- 11861D8E1F81"
User Vault Search, paired with CredentialPrivateVaultsearchSt ring	"88E4BE76-4C5B-4694-AA9C- D53B7E0FE0DC"

# **TIPS AND TRICKS**

- Use the Set-RDMProperty cmdlet to set almost any value within the session object. To find properties and paths, reverse engineer the session XML file format. Create a sample session in RDM and export it using the right click menu Import/Export - Export Session (.rdm).... Once exported, open the .rdm file with your favorite editor. Browse the XML structure to find the property path and name.
- Use the AddDataEntryKind method to set the data entry kind to Web (11 in this case). This is not actually documented it's just a bonus tip that we use here at Devolutions all the time!

# 9.2 PowerShell Module

# DESCRIPTION

Remote Desktop Manager supports Windows PowerShell. PowerShell is a powerful scripting shell that lets administrators automate Remote Desktop Manager. They are provided in a PowerShell module.

# MANUALLY IMPORT THE POWERSHELL MODULE

The Remote Desktop Manager PowerShell Module, which is called RemoteDesktopManager.PowerShellModule.dll, is located in the Remote Desktop Manager installation directory. The following path is for a default install of Remote Desktop Manager, adapt as per your requirements.

Import-Module "\${env:ProgramFiles(x86)}\Devolutions\Remote Desktop Manager\RemoteDesk

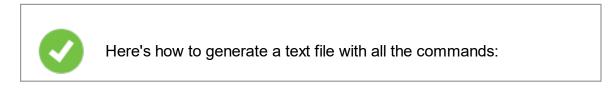
# **COMMANDS**

To list all cmdlet commands, please enter this command:

Get-Command -Module RemoteDesktopManager.PowerShellModule

For more information on those commands, use the following command:

get-help [command name]



```
Get-Command -Module RemoteDesktopManager.PowerShellModule -Type Cmdlet `
| Sort-Object -Property Name `
| Format-Table -Property Name `
| out-file $env:temp\pshelp.txt
Get-Command -Module RemoteDesktopManager.PowerShellModule `
| ForEach-Object { get-help -name $_.Name -full }
| out-file -append $env:temp\pshelp.txt
```

#### 9.2.1 Extract TeamViewer ID

#### DESCRIPTION

You can use Powershell to extract the TeamViewer ID from a session.

# **SETTINGS**

Here a script to extract the TeamViewer ID from a session:

\$sessions = Get-RDM-Session | where {\$\_.Session.Kind -eq "TeamViewer"}

\$sessions[0].Session.GetProperty("TeamViewer", "ID")

#### 9.2.2 Custom Export to CSV

# DESCRIPTION

Many customers ask for a special export that would contain specific fields.

# **SETTINGS**

Here is a small script that can be used to generate URLs for our new web protocol handler. We generate a csv file that contains the name and the URL.

```
get the data source ID, note that the "Create Web Url" button generates a different
$dsid = Get-RDM-DataSource | where {$_.IsCurrent -eq "X"} | select -expand "ID"
get the RDP sessions, create a new object with the desired fields.
Simply append "add-member" commands to include a new field
$s = Get-RDM-Session |
where {$_.Session.Kind -eq "RDPConfigured"} |
foreach {
 new-Object Object |
 Add-Member NoteProperty Name $_.Name -PassThru |
 Add-Member NoteProperty URL "rdm://open?DataSource=$dsid&Session=$($_.ID)" -Pass
};
save to csv, the field names are used as column headers.
$s | export-csv c:\temp\sessions.csv -notypeinformation;
```

#### 9.2.3 Creating Group Folder Structure from CSV file

# DESCRIPTION



Please note that the CSV file must be encoded in UTF-8 to support special characters.

This sample creates a Group Folder structure from a CSV file.

# SAMPLE

```
$csv = Import-Csv "c:\YourFolder\GroupFolder.csv"
foreach ($csvEntry in $csv) {
 $groupName = $csvEntry.Name
 # Extract the group folder name
 if ($groupName.Contains("\")) {
 $groupName = $groupName.Substring($groupName.LastIndexOf("\"), $groupName.Lengt
 $groupName = $groupName.TrimStart("\")
 }
 # Create the group folder if it is not null, empty or fill in with space charac
 if (![string]::IsNullOrWhiteSpace($groupName)) {
 $session = New-RDMSession -Type "Group" -Name $groupName
 $session.Group = $csvEntry.Name
 Set-RDMSession $session
 Write-Host "Group Folder $groupName created" -f Yellow
 }
}
Update-RDMUI
```

# NOTES

The CSV file must have only one column with the title set as Name.

The full path must be specified for each sub folder.

Here is an example of this CSV file :

📄 Grou	ipFolder.csv 🗵
1	Name
2	A
3	A\B
4	A/B/C
5	D
6	D\E
7	D\E\F
8	G
9	G\H
10	G/H/I
11	G/H/I/J
12	G/H/I/J/K
13	G/H/I/J/K/L
14	Test
15	Test\Sample
16	Test\Sample\Folder
17	Test\Sample\Folder\Sub folder
18	

CSV File example

# **CMDLETS REFERENCE**

# 9.3 Custom PowerShell Commands

## DESCRIPTION

Custom Powershell Command will act on currently selected entries in your navigation panel. Use click & ctrl-click to build up your list, or an advanced search to select a great number of entries. After your selection is done, the command is available using either :

• Edit - Batch - Edit (Special Actions).

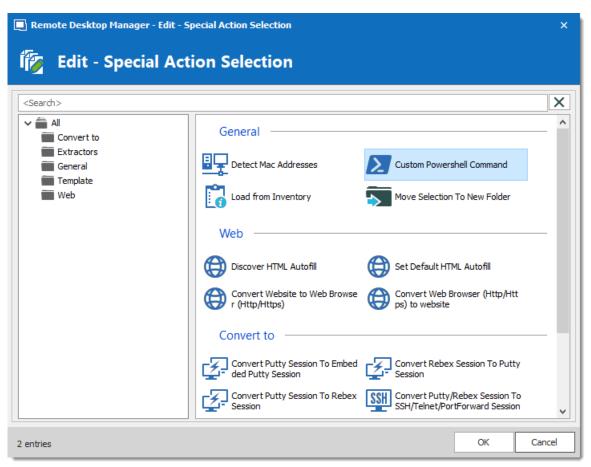
+ 🥖	° C	୍	Quick Co	nnect <hos< th=""><th>it&gt;</th><th></th><th> (;</th><th>3 🖌 🔒</th><th>-</th><th>Remo</th><th>ote Desktoj</th><th>p Manager [Dashboard]</th></hos<>	it>		(;	3 🖌 🔒	-	Remo	ote Desktoj	p Manager [Dashboard]
File H	ome	Edit	View	Adminis	stration	Tools	Window He	lp				
+	_	)uplicate Create Sho	ortcut		III Renam				Ĩ	Í	<b>&gt;</b>	Export Selection (.rd)
New Entry	🔁 s	ave as Te		Properties	× Delete	Play List	User Specific Settings	Local Specific Settings	· · ·	Batch Edit ▼	Move to Vault	Furnant
	Ad	d			Edit		Edit Toolb	Overrides ar		Batch		Export

• Right-click then *Edit – Edit (Special Actions)*.

Navigation	# ×	🖀 Dashboar	d	
SQL Serv - Admin	÷	Тог		
Name		E Tes		
🗸 📒 SQL Serv - Admin		Actions		
🗸 🔓 Enterprise				
> Contact				<b>&gt;</b> +
> Credentials		Open Session		pen (Select New Entry
> Document		Open Session	C	redentials)
> Folders				
InfoTypes     Macro				
Sessions		Properties		
Veb				
🥭 Test				
G Wet	Open Selection (2 Entries)			
> 🧮 Synchroni	Open with Parameters			
> 🧰 Mac Entrie	•			
+	New Entry	Ins		
S.	Duplicate	Ctrl+D		
	Add	•		
	Edit	•		Edit Entry Ctrl+E
	Move		f	Edit (Special Actions)
	Delete Selection (2 Entries)	Ctrl+Del	£.	User Specific Settings Ctrl+Shift+E
	Favorite		se.	Local Specific Settings Ctrl+Alt+E
∷	Play List	+	Ĩ	Batch Edit
	Clipboard	+	5	Create Shortcut
	Macros/Scripts/Tools	+		Tags
	View	+	<	Parent
	Import	•		Rename F2
	Export	•		Status +
5	Expand All	Ctrl +	_	
5	Collapse All	Ctrl -		

Selected entries - Edit (Special Actions)

• Once there, Select Custom PowerShell Command.



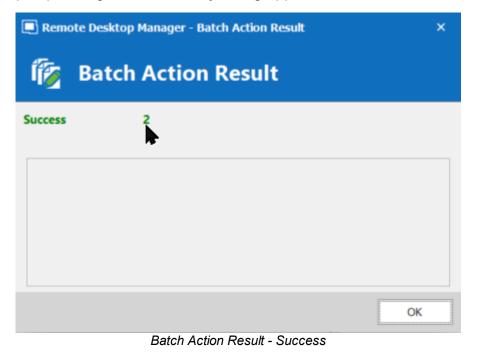
Edit (Special Actions)

 A window appears in which you can write a snippet of code. Note that is the last line must always be \$RDM.Save();

🔲 Rem	🖳 Remote Desktop Manager - Custom Powershell Command					
1	Custom Powershell Command					
Comman	d					
1 2	<pre>\$connection.CreationSource = "xxxxxxx-xxxx-xxxx-xxxx-xxxxx-xxxxx" \$RDM.Save();</pre>					
	ction.Name = "ModifiedName";		<u>ـ</u>			
\$RDM.S	Save();		Ŧ			
		ОК	Cancel			

Custom Powershell Command

• Upon pressing Ok, a summary dialog appears to indicate success or failure.



Remote Desktop Manager - Batch Action Result				
1 🏹 В	atc <mark>h</mark> Actio	on Result		
Success	0			
Errors	2			
property exis At line:1 char + \$connectio + ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	'LoremIpsum' canno is and can be set. 1 n.LoremIpsum = "Lo	ot be found on this object. Verify that the oremIpsum"; 	^	
windjammer2	D:		$\sim$	
			ОК	

Batch Action Result - Failure

#### 9.3.1 Change your Synchronizer source

# DESCRIPTION

If you have been using the Remote Desktop Manager version with the Synchronizer **Action on Entry Mismatch** feature, the following steps will allow you to easily change your source with a Powershell Command without having to recreate all your sessions, thus marking all selected entries as created by the synchronizer.

# SETTINGS

1. Select your Synchronizer entry in your Tree view, right click and select **Properties**.

2. In the **Advanced** side menu of the **Properties**, copy the **Session ID** (you will then need that ID number to insert in your Powershell Command).

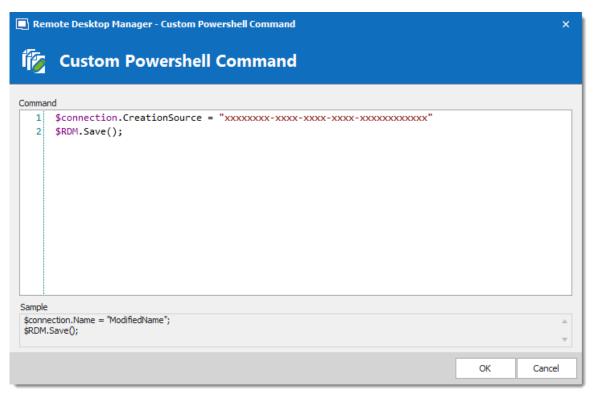
🔲 Remote Desktop Manage	r - Active Directory [Default]					×
Synchroniz	er					
General More Permissions VPN/SSH/Gateway	Database ID Data Source ID		7	Create Desktop Shor	rtcut	
Advanced	Session ID		٢	Create Web URL	-	
	Command line				1	1
Active Directory						
	Search property	Λ		ОК	Cance	el

Advanced - Session ID

3. Select your entries and reach the Custom PowerShell Command dialog as described in <u>Custom PowerShell Commands</u>

4. Write the following line for your Powershell Command:

```
$connection.CreationSource = "***** synchronizer ID obtained in step 2 ****"
$RDM.Save();
```



Custom Powershell Command

#### 9.3.2 Batch Actions Samples

# DESCRIPTION

The Batch Actions allow for a quick way to modify multiple sessions at once, but within Remote Desktop Manager itself.

To be able to create your PowerShell script, you would need the name of the field(s) that you would like to update. To retrieve the exact name of the field, right-click on your session and select *Clipboard – Copy*. You can then paste the information in a text editor to retrieve the name of the field(s) that you would like to modify via the Custom PowerShell Command.

Since they use the Powershell technology, we provides samples in this section because the fields are the same when accessed through our Batch Actions or through Powershell.

# SAMPLES

# DISABLE ONLY SEND PASSWORD IN HTML PASSWORD FIELD OPTION IN WEB BROWSER SESSIONS

```
$connection.Web.OnlySendPasswordInPasswordField = $false;
$RDM.Save ();
```

# ENABLE VIEW URL EMBEDDED (INFORMATION ENTRIES)

```
$connection.DataEntry.ViewUrlDisplayMode = "Default";
$RDM.Save();
```

ViewUrlDisplayMode: "Default" = embedded, "External" = external.

# **OPEN URL (EXTERNAL) FOR WEB LOGIN (INFORMATION ENTRIES)**

```
$connection.DataEntry.DefaultAction = "OpenUrlExternal";
$RDM.Save();
```

# SSH SHELL BATCH EDIT (SESSION TYPE SETTINGS)

```
$connection.Terminal.MaxScrollbackLines = 2000;
$connection.Terminal.AlwaysAcceptFingerprint = $true;
$connection.Terminal.EnableLogging = $true;
$connection.Terminal.LogPath = '$LOGPATH$\$NAME$_$DATE_TEXT_ISO$_$TIME_TEXT_ISO$.
$connection.Terminal.LogMode = 1;
$connection.Terminal.LogOverwriteMode = 0;
$RDM.Save();
```

Here are some values that you can change for this command;

```
LogPath: your path between ' ' (single quotes). You can also use variables. i.e. %USERPROFILE%,

$NAME$, etc. In this example $LOGPATH$ is a custom variable defined in the <u>Data Source Settings</u>

(<u>System Settings</u>) - <u>Custom Variables</u>

LogMode: 1 = Printable Output, 0 = Event

TerminalLogOverwriteMode: 0 = default, 1 = prompt, 2 = append, 3 = overwrite

Here's also other options that you can modify;
```

```
$connection.Terminal.BellMode = 'Visual'
$connection.Terminal.CloseOnDisconnect = $false
```

#### CONVERT WEB BROWSER SESSIONS INTO LOGMEIN SESSIONS

```
$connection.ConnectionType = 'LogMeIn';
$connection.ConnectionSubType = '';
$connection.LogMeIn.Url = $connection.WebBrowserUrl;
$RDM.Save();
```

Enable the "Hide script errors in all your LogMeIn sessions."

```
$connection.LogMeIn.ScriptErrorsSuppressed = $true;
$RDM.Save();
```

#### Hide navigation bar.

```
$connection.LogMeIn.ShowUrl = $false;
$RDM.Save();
```

#### Change the Web Browser Application.

```
$connection.LogMeIn.WebBrowserApplication = "GoogleChrome";
$RDM.Save();
```

#### Enable the Sandbox Process.

```
$connection.LogMeIn.SandboxProcess = $true;
$RDM.Save();
```

#### Change the URL.

```
$connection.LogMeIn.Url = " ";
$RDM.Save();
```

#### Change the Portal Login field.

```
$connection.LogMeIn.DashboardHostUrl = " ";
$RDM.Save();
```

#### Change Username & Password.

Please run these two one at a time

#### Host;

```
$connection.LogMeIn.UserName = " ";
$RDM.Save();
$connection.LogMeIn.SafePassword = " ";
$RDM.Save();
```

#### Portal;

```
$connection.LogMeIn. DashboardEmail = " ";
$RDM.Save();
$connection.LogMeIn. SafePasswordDashboard = " ";
$RDM.Save();
```

## CHANGE A CUSTOM FIELD VALUE WITHOUT CHANGING THE DATA

```
$connection.MetaInformation.CustomField3Title = "MyField"
$RDM.Save();
```

Please note that you would need to change "MyField" for the value that you want to replace Custom field #3 with.

## BULK UPDATE FQDN INFO TO SESSIONS.

```
$connection.host = $Connection.name + ".mydomain.com"
$RDM.Save();
```

#### BULK CHANGE RECORDING FIELD FOR PUTTY SESSIONS

```
$connection.Putty.RecordingMode = 1;
$connection.Putty.RecordingFileName = "C:\path\to\your\file.log"
$RDM.Save();
```

#### CHANGE THE COMPUTER FIELD OF AN RDP SESSION

```
$connection.Url = " ";
$RDM.Save();
```

#### ENCODING

```
$connection.Putty.TelnetEncoding = "UTF-8";
$RDM.Save();
```

#### CHANGE THE EXPIRATION DATE OF AN RDP SESSION

The date must be specified using the ISO8601 format.

```
$connection.MetaInformation.Expiration = "2018-12-25T00:00:00-05:00";
$RDM.Save();
```

# CHANGE THE EXPIRATION DATE OF AN RDP SESSION WITH A RELATIVE DATE

Use any date time operator supported by PowerShell.

```
$connection.MetaInformation.Expiration = (Get-Date).AddMonths(6);
$RDM.Save();
```

#### MODIFY PAGE TAB TITLE IN UI

```
$connection.TabTitle = '$COMPANY_NAME$ - $NAME$';
$RDM.Save();
```

# CLEAR KEYWORDS IN SESSION

```
$connection.MetaInformation.Keywords = "";
$RDM.Save();
```

## CHANGE HISTORY MAX LINES FOR SSH SHELL (REBEX)

```
$connection.Putty.HistoryMaxLength = 2000;
$RDM.Save();
```

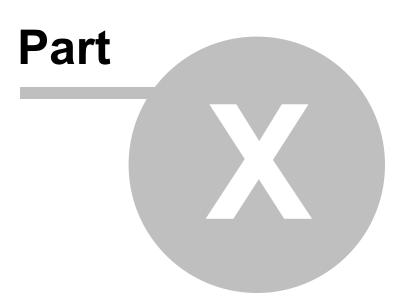
## CONVERT COMMAND LINE TOOL TO A COMMAND LINE SESSION

```
$connection.ConnectionType = 3;
$RDM.Save();
```

#### CHANGE KEYBOARD HOOK FOR AN RDP SESSION

```
$connection.KeyboardHook = "OnTheRemoteComputer";
$RDM.Save();
```

# Support/Resources



# 10 Support/Resources

# **10.1 Technical Support**

Hours: Monday to Friday 7:30 a.m. to 6:00 p.m. EST

**Knowledg**Find helpful information's and procedures regarding our <u>products</u>. **e Base:** 

Email: <u>ticket@devolutions.net</u>

Forum: <u>https://forum.devolutions.net/</u>

Language English-Français-Deutsch

**Phone:** +1 844 463.0419

# **EXTENDED AND PREMIUM SUPPORT PLANS**

Subscribers of a paid support plan receive an email address and a plan ID. You should send your support requests to the appropriate email address and provide your plan ID in the subject line.

Please consult our <u>Support Policy</u> for more information.



# 10.2 Keyboard Shortcuts

# DESCRIPTION

Here are the default keyboard shortcuts for various commands. These can be modified in *File – Options – User Interface – Keyboard*.

# GENERAL

	SHORTCUT
Filter	Ctrl+F
Force Refresh	Ctrl+F5
Online Help	F1
Quick Connect	Ctrl+Alt+Q
Refresh	F5

# EDIT

Add Credential Entry	Alt+Shift+N
Add Folder	Ctrl+Shift+N
Add Information	Ctrl+Alt+N
Add Session	Ctrl+N

	SHORTCUT
Delete	Ctrl+Del
Duplicate	Ctrl+D
Edit Entry	Ctrl+E
Local Specific Settings	Ctrl+Alt+E
New Entry	Ins
Rename Entry	F2
User Specific Settings	Ctrl+Shift+E

# ACTIONS

	SHORTCUT
Clipboard - Copy Connection String	Ctrl+Alt+H
Clipboard - Copy Domain	Ctrl+Alt+B
Clipboard - Copy Host Name	Ctrl+H
Clipboard - Copy Password	Ctrl+Shift+B
Clipboard - Copy Url	Ctrl+Shift+H

	SHORTCUT
Clipboard - Copy Username	Ctrl+B
Execute Typing Macro	Ctrl+Shift+A
Navigate URL	Enter
Open (Embedded/Tabbed)	Ctrl+Enter
Open (External)	Shift+Enter
Open (Full screen)	Alt+Enter
View Password	Ctrl+P

# VIEW

Dashboard	Alt+F6
Details	F12
Favorites	F10
Grouped Tab Pane	Ctrl+Alt+F9
Header Pane	Alt+Shift+F6
Large Icons	F6

	SHORTCUT
Navigation Pane	Alt+F8
Opened Sessions	F8
Play List Management	Ctrl+G
RDP Toggle View Only	Shift+F3
Recent (Recent Used Entries)	F9
Status Bar	Alt+F7
Tabbed Entries Pane	Alt+F9
Tiles	F3
Top Pane	Alt+F11
Tree View	F7

# NAVIGATION

Change Data Source	Ctrl+Shift+D
File	Ctrl+Shift+F
Focus Dashboard	Ctrl+Shift+L

Focus Tab	Ctrl+Shift+Up
Focus Tree/List	Ctrl+L
Goto Bookmark 1	Ctrl+1
Goto Bookmark 2	Ctrl+2
Goto Bookmark 3	Ctrl+3
Goto Bookmark 4	Ctrl+4
Goto Bookmark 5	Ctrl+5
Goto Bookmark 6	Ctrl+6
Goto Bookmark 7	Ctrl+7
Goto Bookmark 8	Ctrl+8
Goto Bookmark 9	Ctrl+9
Select Next Tab	Ctrl+Shift+Right
Select Previous Tab	Ctrl+Shift+Left
Set Bookmark 1	Ctrl+Shift+1
Set Bookmark 2	Ctrl+Shift+2
Set Bookmark 3	Ctrl+Shift+3

Set Bookmark 4	Ctrl+Shift+4
Set Bookmark 5	Ctrl+Shift+5
Set Bookmark 6	Ctrl+Shift+6
Set Bookmark 7	Ctrl+Shift+7
Set Bookmark 8	Ctrl+Shift+8
Set Bookmark 9	Ctrl+Shift+9
Switch Vault	Ctrl+Shift+R

## **IMPORT/EXPORT**

Import Entries (.rdm, .pvm, .vnc, .rdp)	Ctrl+Shift+I

# 10.3 Lexicon

# DESCRIPTION

Remote Desktop Manager is a feature-rich software that has an extensive set of functionality. Here are the major concepts that are important to understand in order to use the program to its full potential.

# DATA SOURCE

A container for entries. It can be a local file or a database (either local or shared). You can use multiple distinct data sources in the application, although only one is considered active at one point in time. See data source <u>Overview</u> for more information.

## ENTRY

All items in your data source are entries. There are multiple types. The entry is an abstract concept that serves as a container for all specific types.

## CREDENTIAL ENTRY

A credential is used to control access to a resource by identifying the user. It can be a classic username/password pair held by the application or even by an external source.

## **INFORMATION ENTRY**

An information entry can contain various information like account information, emails, serial numbers. Unlike credential entries, information entries are meant to be shared. Therefore, the data in the information entries is not encrypted. It's principal use in Remote Desktop Manager is to hold Web site information, from the URL to the credentials. This allows auto log in on the specified web site.

## CONNECTION

Any type of entry that allows you to connect to a remote host, service or device is a connection. An IP address or host name is normally used, as well as credentials.

#### SESSION

In Remote Desktop Manager infancy, it was mainly aimed at managing Microsoft Remote Desktop. A **Session** was a term that was in use back then to describe a connection to Microsoft Remote Desktop Services. It appears widely in our documentation. Any technology that connects to something and that needs to use authentication is a **Session**.

# 10.4 Tutorials

# **DESCRIPTION**

Our tutorials are published on **Devolutions YouTube channel**.

Our focus is to deliver quality information as soon as possible after the release of a new or modified feature.

Please use our forums if documentation is missing or plain wrong, we will do our best to correct the situation.



# **Contact Us**

For any questions, feel free to contact us: **Support:** ticket@devolutions.net **Phone:** +1 844 463.0419 Monday to Friday 7:30 a.m. to 6 p.m. EST

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