



## Setting up Reporting with Parallels Remote Application Server

- Parallels Remote Application Server 19.2

In this article, we are going to review the setup process of Parallels Remote Application Server Reporting Service, which requires Microsoft SQL Server Reporting Services (SSRS) and uses SQL Server Express Edition installed on one separate host.

### Pre-requisites

1. Create a dedicated Active Directory account that will be used to view the reports called ***rasreportingview***
2. Make sure that the account which will be used for Microsoft SQL Server and Reporting Services installation is a domain account and has local administrative permissions on the RAS Reporting server. If required, add the account to the local Administrators group manually or using Group Policies.
3. The same domain account from step 2 can be used for both SQL Server and SSRS deployment and configuration (make sure you assign an SQL Administrator role).
4. Microsoft .NET Framework 3.5 and 4.5 (or higher) are installed on the RAS Reporting server.

## Microsoft SQL Server Installation and Configuration

### Installation

If you are planning to use SQL Server 2022 Express Edition, make sure you install the latest version. The installer can be downloaded at <https://www.microsoft.com/en-us/download/details.aspx?id=104781>.

To install Microsoft SQL Server:

1. Launch the installer and select **Download Media**:

# SQL Server 2022

## Express Edition

Select an installation type:

### Basic

Select Basic installation type to install the SQL Server Database Engine feature with default configuration.

### Custom

Select Custom installation type to step through the SQL Server installation wizard and choose what you want to install. This installation type is detailed and takes longer than running the Basic install.

SQL Server transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve the product. To learn more about data processing and privacy controls, and to turn off the collection of this data, see [SQL Server privacy documentation](#).

2. In the "Which package would you like to download" section, select **Express Core**:

# SQL Server 2022 Express Edition

Specify SQL Server installer download

SELECT LANGUAGE

English

WHICH PACKAGE WOULD YOU LIKE TO DOWNLOAD?

- ☒ Express Core (266 MB)  
SQL Server Engine only
- ☐ Express Advanced (544 MB)  
SQL Server Engine, Full Text Services, and Reporting Services
- ☐ LocalDB (60 MB)  
Lightweight version of Express Edition with all of its programmability features, but ru

Or, go to the Microsoft Azure portal to provision SQL Server in the cloud

SELECT DOWNLOAD LOCATION \*:

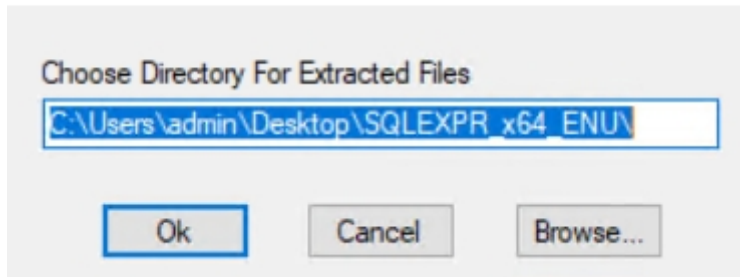
C:\Users\Public\Downloads

 Browse

Close

< Pr

3. Specify the download folder and click **Download** to save the *SQLEXPRESS64.msi* file.
4. Run the **SQLEXPRESS64.msi** installer.
5. Select a temporary folder to save installer binaries:

 SQL Server Installation Center

Planning

**Installation**

Maintenance

Tools

Resources

Options

[New SQL Server standalone installation or add features to an existing installation](#)

Launch a wizard to install SQL Server 2022 in a non-clustered instance or to add features to an existing SQL Server 2022 instance.

[Install SQL Server Reporting Services](#)

Launch a download page that provides a link to install SQL Server Reporting Services (SSRS). An internet connection is required to install SSRS.

[Install SQL Server Management Tools](#)

Launch a download page that provides a link to install SQL Server Management Tools (SSMS), SQL Server command-line utilities (SQLCMD and BCP), SQL Server Profiler and Database Tuning Advisor. An internet connection is required to install these tools.

[Install SQL Server Data Tools](#)

Launch a download page that provides a link to install SQL Server Data Tools (SSDT). SSDT provides Visual Studio integration including project system, SQL Database, the SQL Server Database Engine, Reporting Services, and Integration Services. An internet connection is required to install these tools.

[Upgrade from a previous version of SQL Server](#)

Launch a wizard to upgrade a previous version of SQL Server. [Click here to first view Upgrade Documentation](#)

Microsoft SQL Server 2022

6. In the **SQL Server Installation Center**, click on **New SQL Server stand-alone installation or add features to an existing installation**.
7. On the **License Terms** page, accept the license terms:

## License Terms

To install SQL Server 2022, you must accept the Microsoft Software License Terms.

### License Terms

Global Rules

Microsoft Update

Product Updates

Install Setup Files

Install Rules

Azure Extension for SQL Server

Feature Selection

Feature Rules

Feature Configuration Rules

Installation Progress

Complete

### SQL Server 2022 Express Edition

**YOU MUST ACCEPT THE SOFTWARE LICENSE TERMS**  
**read the full license terms provided at ([aka.ms/usingmsdt](https://aka.ms/usingmsdt))**

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☐ I accept the license terms and [Privacy Statement](#)

SQL Server transmits information about your installation experience as well as performance data. Azure Arc connection also transmits the configuration information and protect your SQL Server instance using Azure Portal and services. To learn more about data processing and privacy controls, and to turn off the collection of certain data, see [documentation](#).

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8. On the **Microsoft Update** page, if required, select **Use Microsoft Update to check for updates**:

## Microsoft Update

Use Microsoft Update to check for important updates

License Terms

Global Rules

**Microsoft Update**

Product Updates

Install Setup Files

Install Rules

Azure Extension for SQL Server

Feature Selection

Feature Rules

Feature Configuration Rules

Installation Progress

Complete

Microsoft Update offers security and other important updates for V software, including SQL Server 2022. Updates are delivered using A the Microsoft Update website.

☐ Use Microsoft Update to check for updates (recommended)

[Microsoft Update FAQ](#)

[Microsoft Privacy Statement](#)

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9. On the **Install Rules** page, click **Next**

## Install Rules

Setup rules identify potential problems that might occur while running Setup. Failures must be corrected before Setup can continue.

License Terms

Global Rules

Microsoft Update

Install Setup Files

**Install Rules**

Azure Extension for SQL Server

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Feature Configuration Rules

Installation Progress

Complete

Operation completed. Passed: 4. Failed 0. Warning 1. Skipped 0.

Hide details <<

[View detailed report](#)

| Result                                                                             | Rule                                                  |
|------------------------------------------------------------------------------------|-------------------------------------------------------|
|   | Machine Learning Server shared feature support        |
|   | Consistency validation for SQL Server registry keys   |
|   | Computer domain controller                            |
|   | Windows Firewall                                      |
|  | Microsoft .NET Framework 4.7.2, or newer, is required |

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10. On the **Azure Extension for SQL Server** page, uncheck Azure Extension for SQL Server.

## Azure Extension for SQL Server

Azure Extension for SQL Server is required to enable Microsoft Defender for Cloud, Purview, and Azure

License Terms

Global Rules

Microsoft Update

Install Setup Files

Install Rules

**Azure Extension for SQL Serv...**

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Feature Configuration Rules

Installation Progress

Complete

☐ Azure Extension for SQL Server

To install Azure extension for SQL Server, you need to create an Azure account or a service principal to connect the instance to Azure. You also need to specify the Resource Group, Region, and Tenant ID. For more information, see <https://aka.ms/arc-sql-server>.

☐ Use Azure Login

☒ Use Service Principal

Azure Service Principal ID\*

Azure Service Principal Secret\*

Azure Subscription ID\*

Azure Resource Group\*

Azure Region\*

Azure Tenant ID\*

Proxy Server URL (optional)

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11. On the **Feature Selection** page, select only Database Engine Services.

## Feature Selection

Select the Express features to install.

- License Terms
- Global Rules
- Microsoft Update
- Install Setup Files
- Install Rules
- Azure Extension for SQL Server
- Feature Selection**
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration
- Feature Configuration Rules
- Installation Progress
- Complete



Looking for Reporting Services? [Download it from the web](#)

Features:

Feature description

Instance Features

- ☒ Database Engine Services
- ☐ SQL Server Replication

Shared Features

Redistributable Features

Includes the Database Engine for storing, processing, and retrieving data. The Database Engine also includes the SQL Server Enterprise Edition and rapid transaction processing.

Prerequisites for

Already installed: Windows  
To be installed: Microsoft Windows Installer 4.5 or later

Disk Space Requirements

Drive C: 994 MB

Select All

Unselect All

Instance root directory:

C:\Program Files\Microsoft SQL Server

Shared feature directory:

C:\Program Files\Microsoft SQL Server

Shared feature directory (x86):

C:\Program Files (x86)\Microsoft SQL Server

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12. On the **Instance Configuration** page, under **Named instance**, either leave the default SQLEXPRESS or enter the custom name (in upper case). Here, **RASREPORTING** will be used:

## Instance Configuration

Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.

License Terms

Global Rules

Microsoft Update

Install Setup Files

Install Rules

Azure Extension for SQL Server

Feature Selection

Feature Rules

**Instance Configuration**

Server Configuration

Database Engine Configuration

Feature Configuration Rules

Installation Progress

Complete

☐ Default instance

☒ Named instance: \*

Instance ID:

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL1

Installed instances:

| Instance Name | Instance ID | Features | Ed |
|---------------|-------------|----------|----|
|               |             |          |    |

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- On the **Server Configuration** page, specify accounts, which will be running SQL Server services - services should be set to start automatically. We will use default accounts:

## Server Configuration

Specify the service accounts and collation configuration.

License Terms

Global Rules

Microsoft Update

Install Setup Files

Install Rules

Azure Extension for SQL Server

Feature Selection

Feature Rules

Instance Configuration

**Server Configuration**

Database Engine Configuration

Feature Configuration Rules

Installation Progress

Complete

Service Accounts

Collation

Microsoft recommends that you use a separate account for each SQL

| Service                    | Account Name             | P |
|----------------------------|--------------------------|---|
| SQL Server Database Engine | NT Service\MSSQL\$RAS... |   |
| SQL Server Browser         | NT AUTHORITY\LOCAL ...   |   |

☐ Grant Perform Volume Maintenance Tasks privilege to SQL Server

This privilege enables instant file initialization by avoiding zeroing  
to information disclosure by allowing deleted content to be accessed

[Click here for details](#)

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13. On the **Database Engine Configuration** page, add

1.
  - ◇ AD Administrator
  - ◇ NT Authority\System
  - ◇ Domain account that will be used for viewing reports (e.g., **rasreportingview** used in RAS Reporting by default)

## Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories, TempDB, Max d parallelism, Memory limits, and Filestream settings.

License Terms  
Global Rules  
Microsoft Update  
Install Setup Files  
Install Rules  
Azure Extension for SQL Server  
Feature Selection  
Feature Rules  
Instance Configuration  
Server Configuration  
**Database Engine Configuration**  
Feature Configuration Rules  
Installation Progress  
Complete

Server Configuration Data Directories TempDB Memory User Ins

Specify the authentication mode and administrators for the Databas

Authentication Mode

☒ Windows authentication mode

☐ Mixed Mode (SQL Server authentication and Windows authentica

Specify the password for the SQL Server system administrator (sa) ac

Enter password:

Confirm password:

Specify SQL Server administrators

ras\admin (admin)  
ras\rasreportingview (rasreportingview)  
**NT AUTHORITY\SYSTEM (SYSTEM)**

SQL Server ad  
access to the D

Add Current User

Add...

Remove

< Back

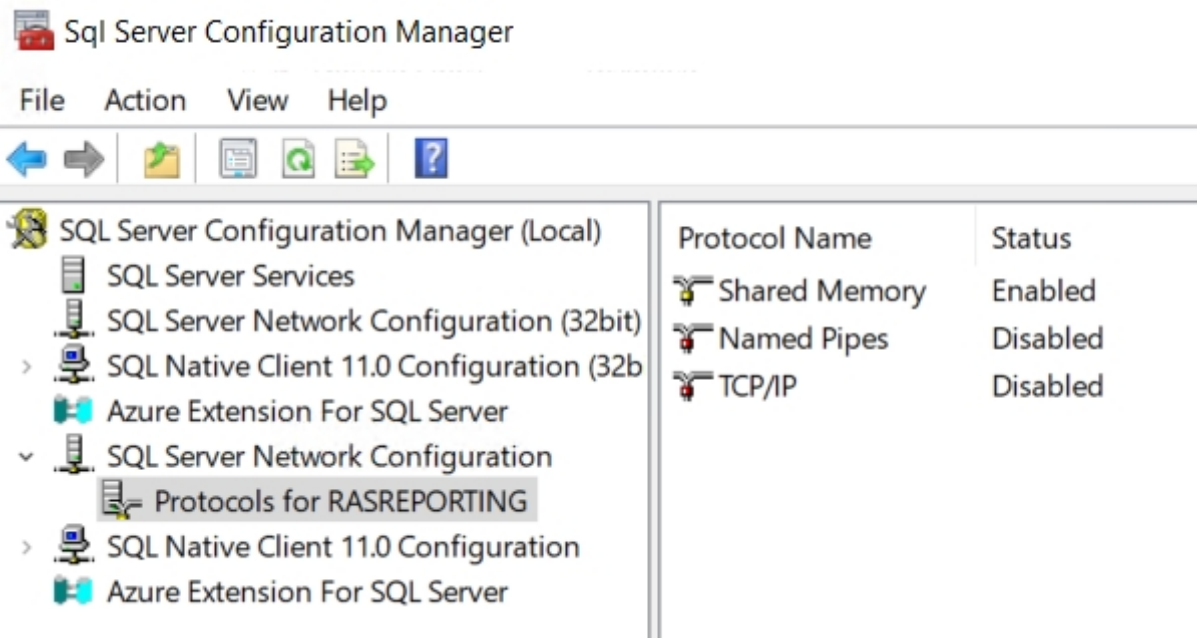
14. Click **Next**.

15. On the **Complete** page, click **Close** once the installation is finished.

## SQL Server Remote access Configuration

To enable remote connections to the SQL Server instance, you need to enable TCP/IP and set port 1433 for all IP addresses:

1. Open **Start > SQL Server 2022 Configuration Manager** and go to **SQL Server Network Configuration > Protocols** for <Instance-name> (e.g. **Protocols for RASREPORTING**):



2. Right-click on **TCP/IP**, choose **Properties**, and set the **Enabled** option to **Yes**:

Protocol IP Addresses

☒ General

|            |     |
|------------|-----|
| Enabled    | Yes |
| Keep Alive | Yes |
| Listen All | No  |

**Enabled**  
Enable or disable TCP/IP protocol for this server instance

OK Cancel Apply Help

3. Select the **IP Addresses** tab. In the **IPAll** section, set **TCP Dynamic Ports** to blank and **TCP Port** to **1433**:

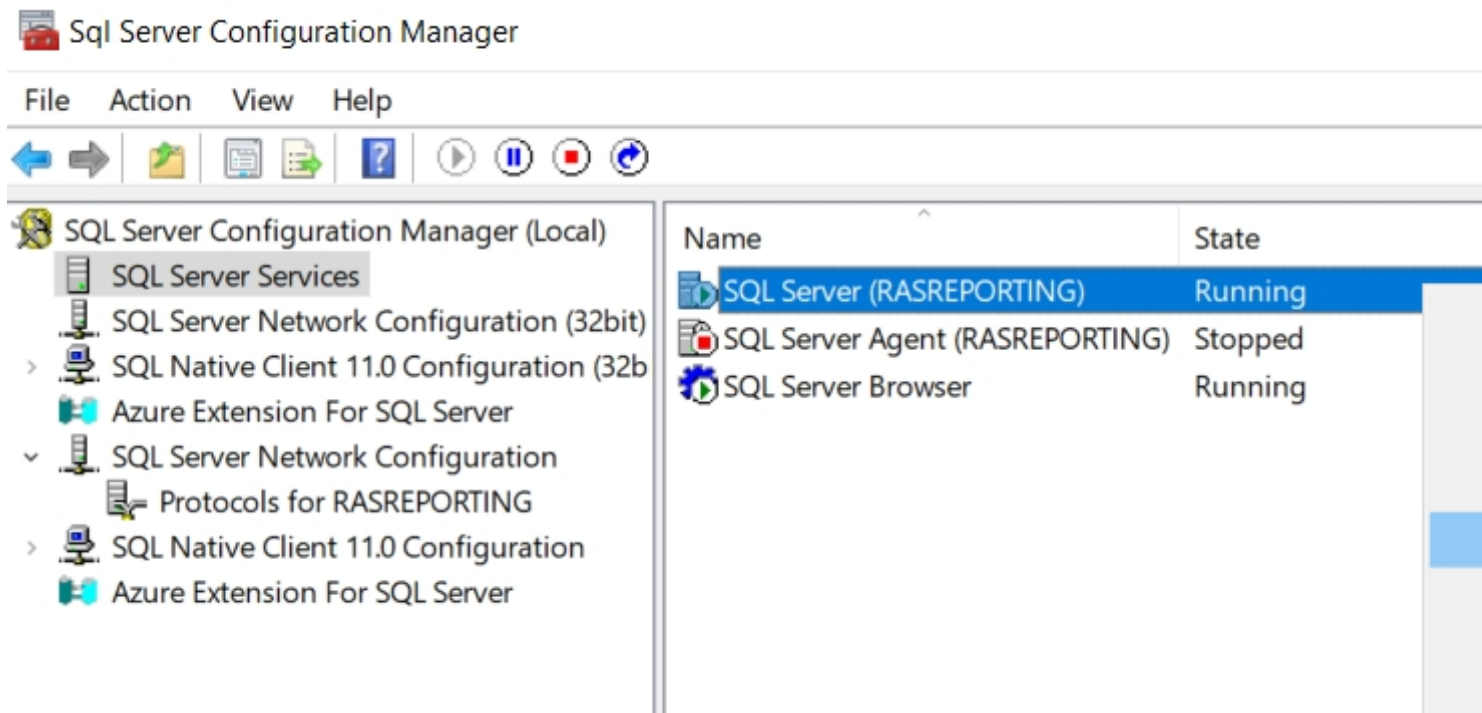
Protocol IP Addresses

|                                           |            |
|-------------------------------------------|------------|
| Enabled                                   | No         |
| IP Address                                | 11.11.11.9 |
| TCP Dynamic Ports                         | 0          |
| TCP Port                                  |            |
| <input checked="" type="checkbox"/> IP5   |            |
| Active                                    | Yes        |
| Enabled                                   | No         |
| IP Address                                | ::1        |
| TCP Dynamic Ports                         | 0          |
| TCP Port                                  |            |
| <input checked="" type="checkbox"/> IP6   |            |
| Active                                    | Yes        |
| Enabled                                   | No         |
| IP Address                                | 127.0.0.1  |
| TCP Dynamic Ports                         | 0          |
| TCP Port                                  |            |
| <input checked="" type="checkbox"/> IPAll |            |
| TCP Dynamic Ports                         |            |
| TCP Port                                  | 1433       |

**TCP Dynamic Ports**  
Blank, if dynamic ports are not enabled. To use dynamic ports, set to 0.

OK Cancel Apply Help

4. Restart the SQL Server instance by right-clicking it and choosing **Restart**.



**Note:** Remote connections are enabled by default in SQL Server 2022. To verify this setting, check the **Allow remote connections to this server** option as described in the SQL Server Configuration Using Management Studio section below.

## SQL Server Management Studio Installation

Download the latest **SQL Server Management Studio** (SSMS) at <https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16#download->

1. **Run as Administrator** the SSMS-Setup-ENU.exe installer.



RELEASE 19.1

# Microsoft SQL Server Management Studio with Azure Data Studio

Welcome. Click "Install" to begin.

Location:

C:\Program Files (x86)\Microsoft SQL Server Management Studio 19

By clicking the "Install" button, I acknowledge that I accept the [Privacy Statement](#), the License Terms for [SQL Server Management Studio](#) and [Azure Data Studio](#).

SQL Server Management Studio transmits information about your installation experience, as well as usage and performance data, to Microsoft to help improve the product. To learn more about data collection and privacy controls, and to turn off the collection of this information after installation, see the [documentation](#).

Install

Close

2. On the Welcome page of the installation wizard, click **Install**. The installation is automatic and requires a **Restart** in the end.

## Microsoft SQL Server Reporting Services Installation and Configuration

# Installation

SQL Server Reporting Services 2022 is a separate component available at <https://www.microsoft.com/en-us/download/details.aspx?id=104502>

To install SSRS:

1. Download the **SQLServerReportingServices.msi** installer and **run it as administrator**.
2. Click **Install Reporting Services**

## Microsoft SQL Server 2022 Reporting Services

Welcome

Install Reporting Services

SQL Server Reporting Services transmits information about your installation experience, as well as usage and performance data, to Microsoft to help improve the product. To learn more about SQL Reporting Services data processing and privacy controls, please see [Privacy Statement](#). Learn how of collection [here](#).

3. If you install SSRS and SQL Server on the same machine, you could pick **Express** (1GB maximum memory used by the database engine. 10GB maximum database size. 1MB maximum buffer cache. CPU the lesser of one (1) socket or four (4) cores).

4. Click **Next**:



# Microsoft SQL Server 2022 Reporting Services

Choose an edition to install

☒ Choose a free edition:

Express

☐ Enter the product key:

[Learn more](#)

Cancel < Previous Next

5. Accept the license terms on the **Review the license terms** page and click **Next**:

# Microsoft SQL Server 2022 Reporting Services

Review the license terms

## MICROSOFT SOFTWARE LICENSE TERMS

### MICROSOFT SQL SERVER 2022 EXPRESS

These license terms are an agreement between you and Microsoft Corporation (or one of its affiliates). They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft services or software updates (except to the extent such services or updates are accompanied by new or additional terms, in which case those different terms apply prospectively and do not alter your or Microsoft's rights relating to pre-updated software or services). **IF YOU COMPLY WITH THESE LICENSE TERMS, YOU WILL BE GRANTED THE RIGHTS BELOW FOR EACH SERVER YOU PROPERLY LICENSE. BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE. INSTEAD, RETURN IT TO THE RETAILER FOR A REFUND OR CREDIT. If you cannot obtain a refund there, contact Microsoft or the Microsoft affiliate serving your area.**

☒ I accept the license terms

Cancel

< Previous

Next >

6. On the **Install Database Engine** page, click **Next**.

# Microsoft SQL Server 2022 Reporting Services

## Install Database Engine

You'll need an instance of SQL Server Database Engine to store the report server database.

### ☒ Install Reporting Services only

You'll need to have or install a Database Engine instance on this server or on a different

[Learn more about supported Database Engine versions and editions](#)

Cancel

< Previous

Next >

6. On **Specify an install location** page, leave all by default and click **Install**:

# Microsoft SQL Server 2022 Reporting Services

Specify an install location

Install location

C:\Program Files\Microsoft SQL Server Reporting Services

 Browse

Cancel

< Previous

Ins

7. On the **Setup completed** page, click **Configure report server**.

# Microsoft SQL Server 2022 Reporting Services

Setup completed

Setup has installed the files you need. You're ready to configure your report server.

⦿ Configure manually and customize settings

We'll start Report Server Configuration Manager for you to configure your report server.

[Learn more](#)

Configure report server

Cl

## Configuration

1. Locate and launch **Report Server Configuration Manager**.
2. Click on the **Connect** button:

# Report Server Configuration Manager

## Connect

 Server

 Service Account

 Web Service URL

 Database

 Web Portal URL

 E-mail Settings

 Execution Account

 Encryption Keys

 Subscription Settings

## Report Server Connection Configuration

### Report Server Connection

Please specify a server name, click the Find button, and select a report instance to configure.

Server Name:

Report Server Instance:



Conn



3. Once connected, in the left pane, click on **Web Service URL** and set the following:

- Virtual Directory: Make sure that the directory name is "ReportServer\_RASREPORTING". If you used a different name for the SQL Server instance, you should use that name instead of the "RASREPORTING" part.
- Make sure the TCP port is set to **8085** and click **Apply**:

## Report Server Configuration Manager

### Connect

RASSQL\SSRS

Service Account

Web Service URL

Database

Web Portal URL

E-mail Settings

Execution Account

Encryption Keys

Subscription Settings

### Web Service URL



Configure a URL used to access the Report Server. Click the **Web Service URL** link to specify the URL for the Report Server instance, or to specify additional parameters on the URL.

#### Report Server Web Service Virtual Directory

Virtual Directory:

ReportServer\_RASREPORTING

#### Report Server Web Service Site identification

IP Address:

All Assigned (Recommended)

TCP Port:

8085

HTTPS Certificate:

(Not Selected)

HTTPS Port:

#### Report Server Web Service URLs

URLs:

[http://RASSQL:8085/ReportServer\\_RASREPORTING](http://RASSQL:8085/ReportServer_RASREPORTING)

### Results

- ✓ 03:50:18.4220 | Reserving url http://+:8085
- ✓ 03:50:19.0815 | Stopping report server "SQLServerReportingService"
- ✓ 03:50:19.9932 | Starting report server "SQLServerReportingService"

The task completed successfully.



4. Go to **Web Portal URL** and set Virtual Directory to **Reports\_RASREPORTING**. If you used a different name for the SQL Server instance, you should see that name instead of the "RASREPORTING" part. Then click Apply.

## Report Server Configuration Manager

 **Connect**

 RASSQL\SSRS

 Service Account

 Web Service URL

 Database

 **Web Portal URL**

 E-mail Settings

 Execution Account

 Encryption Keys

 Subscription Settings

### Web Portal URL



Configure a URL to access Web Portal. Click Add to add the URL.

#### Web Portal Site Identification

Virtual Directory:

Reports\_RASREPORTING

URLs:

<http://RASSQL:8085/Reports>

### Results

- ✓ 03:52:18.8795 | Creating virtual directory Reports\_RASREPORTING
- ✓ 03:52:24.0578 | Reserving url http://+:8085
- ✓ 03:52:24.5317 | Stopping report server "SQLServerReportServer"
- ✓ 03:52:25.4476 | Starting report server "SQLServerReportServer"

The task completed successfully.

5. Click on **Database** to set up a database on the SQL host, click **Change Database**.

6. Choose **Create a new report server database** and click **Next**.

## Report Server Database Configuration Wizard

### Change Database

Choose whether to create or configure a report server database.

#### Action

Database Server

Database

Credentials

Summary

Progress and Finish

Select one of the following options to create an empty report server database or select an existing report server database that has content you want to use.

Select a task from the following list:

- ☒ Create a new report server database.
- ☐ Choose an existing report server database.



Previous

Next

6. In the **Server Name** field, specify the SQL Server name using the Hostname\InstanceName format (case sensitive). Click **Next**.

## Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Choose a local or remote instance of a SQL Server Database Engine and specify credentials that have permission to connect to that server.

Connect to the Database Server:

Server Name:

RASSQL

Authentication Type:

Current User - Integrated Security

Username:

ras\admin

Password:

Test Connection



Previous

Next

7. On the **Database** step title the database (default ReportServer in this case)

## Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Enter a database name and select the language to use for running SQL scripts.

Database Name:

ReportServer

Temp Database Name:

ReportServerTemp

Language:

English (United States)

Report Server Mode:

Native



Previous

Next

8. Choose the preferred **Authentication Type** (In this case, **Service Credentials** are chosen). Click **Next**.

## Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Specify the credentials of an existing account that the report server will use to access the report server database. Permission to access the report server database is automatically granted to the account you specify.

Credentials:

Authentication Type:

Service Credentials

User name:

NT SERVICE\SQLServerReport

Password:



Previous

Next

9. On wizard completion, click **Apply** and then click **Close**.

10. To verify that SSRS is installed correctly, please open the URL in Step 4



This folder is empty

## Parallels RAS Reporting Service Installation and Configuration

### Installation

Download the latest version of Parallels Remote Application Server Reporting Service here:

<https://www.parallels.com/products/ras/download/links/> .

1. Launch the installer on the server running SQL Server Reporting Services, and for database location select  
- **Localhost**

**Note:** At the time of this writing, the SQL Server instance name is case-sensitive.

RAS Reporting Setup

**Database connection**

Specify the location of the SQL Server

Location:

Server:

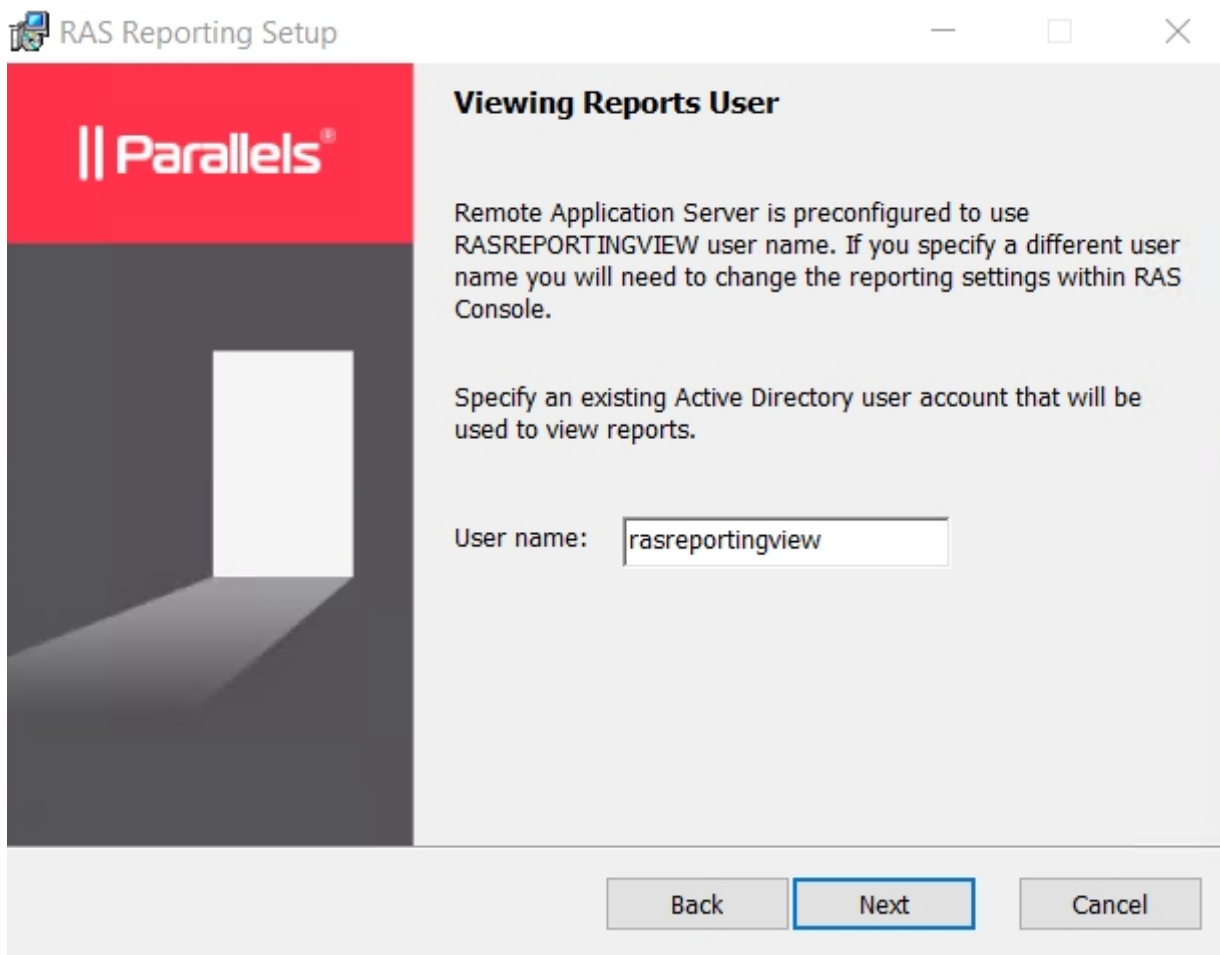
Username:

Password:

Specify an existing SQL instance name on which the RAS Reporting will operate.

SQL Instance Name:

2. On the **Viewing Reports User** pane specify the domain account that will be used to view reports in the RAS Console.



3. Specify the folder where RAS Reporting should be installed. Click **Next** and then click **Install**.

4. Close the wizard once the installation is completed.

## Configuration

Open the Parallels Remote Application Server Console and navigate to **Administration > Reporting**:

1. Click **Enable RAS Reporting**.
2. Specify the server with RAS Reporting installed and the port that will be used by Parallels RAS to connect to Parallels RAS Reporting Service (default port - 30008)
3. Specify the domain user credentials and click on the **Test Connection** button. Once succeeded, click **OK** and **Apply** in the bottom-right to save the configuration changes.
4. It is required to add the specified port to the firewall exception list for incoming traffic on the host running SQL Server and Reporting services.

Now switch to the **Reporting** pane and make sure that you can see the list of available reports in the middle pane.

At this point, Parallels RAS will begin collecting the data and display it in reports similar to the following example:

**Note:**

1. When installed, Parallels Reporting Service will start collecting data about newly established sessions. Pre-existing sessions will not be included in reports.
2. Parallels Reporting Service commits the session information to the database after the user (session owner) is logged off. If you don't see the information about a particular user in a report, make sure the user is logged off, not just disconnected.
3. Parallels Reporting Service keeps its logs on the RAS Reporting server at the following locations:

%PROGRAMDATA%\Parallels\RASLogs\RAS Reporting\ReportingSetup.log

%PROGRAMDATA%\Parallels\RASLogs\RAS Reporting\reporting.log

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