

Technology Asset Inventory

RayVentory Server Installation Guide 12.5





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RayVentory Server Installation Guide

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Introduction

RayVentory Server is a component of the RayVentory HAM / SAM solutions. A RayVentory implementation may use RayVentory Server as a source for RayVentory data where this data is processed by a RayVentory server installation.

Manual Conventions

The following typesetting conventions are used in this manual:

- Cross references to other manuals are shown in italics: "This can be found in the RayVentory Server Release Notes."
- Cross references and external links are shown in blue and are underlined:
 "See RayVentory Server for..."
- Quotations from the computer screen (titles, prompts, and so on) are shown in bold: "Go to **Devices** screen."
- Code syntax, file samples, directory paths, entries that you may type on screen, and the like are shown in a monospaced font:
 - "Use docker compose -up to set your instance up"
- Large blocks of code are shown in a monospaced font with a grey background:

version: "3.7" services:

- Italics may also be used for emphasis: "This manual is *not* intended..."
- Bold may also be used for inline headings: "Target: Indicates a target frame..."

Two note formats are used in RayVentory Server documentation

This is the basic format for giving additional information to the current topic. It can come with four different headings:



Be aware:

This note format contains important information related to your current activity. You should not skip over this text.



Note:

This format is used for items of interest that relate to the current discussion.



Best practice:

If there is a best practice approach to the current topic you can decide if you want to follow it, or stick to your own plan.



Tip:

Tips are designed to help you find the easiest and quickest way to work with RayVentory Server.



The second format is for very serious alerts.



WARNING

The information here may save you from data loss. Pay particular attention.

Documentation Requests

We welcome suggestions and input on the various documentation resources available for RayVentory Server and its components. Feedback and other concerns can be forwarded through local Raynet support representative.

Used Libraries

No third-party libraries are used in Raynet. All libraries used are created by Raynet.



System Requirements

The given requirements name prerequisites for devices running the RayVentory Server.

Hardware Requirements

• Disk space: 100 GB

• RAM: 4 GB

• CPU: 2 cores - Increase if SQL Server and/or RayVentory DataHub will also be on same server

Software Requirements

• Operating System: Windows 2012 R2

• .Net Framework: 4.7.2

• IIS: 7.5

• SQL Server: 2016 (Express edition can be used for small environments)



Installation

The installation sources for RayVentory Server are provided as an MSI package.

Installing Prerequisite Software

For successful RayVentory Server setup, there are several prerequisites necessary on the systems.

- 1. Configure IIS
- 2. Set-up SQL Server

Configure IIS

Configure the Web Server Role to support HTTP/HTTPS transfer and web services. In a Windows environment, this is covered by the Internet Information Services (IIS)

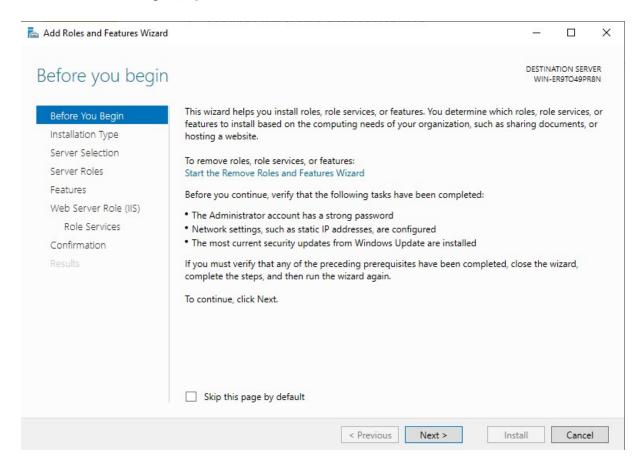
To begin a role or feature installation using the server manager interface, launch **Server Manager** first.

Once launched, selecting the **Add Roles and Features** option from the Server Manager Command Bar launches the Roles and Features wizard.

Upon launch, the **Before You Begin** pane displays to administrators to provide an overview of the wizard and the operations it can perform.

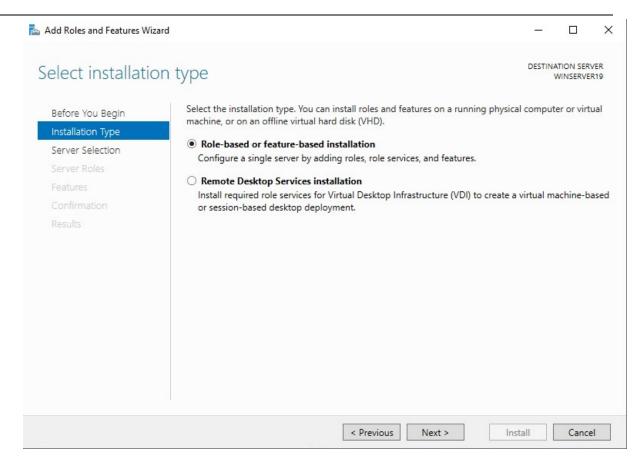


1. On **Before You Begin** page, select **Next >**.



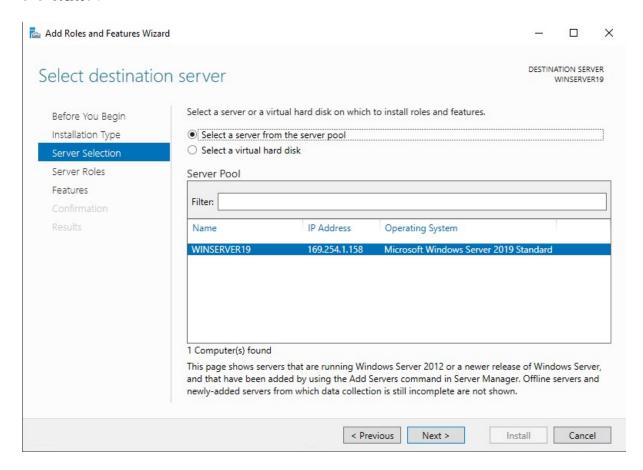
2. On the **Installation type** page, select **Role-based or feature-based installation** as the installation type and click **Next** >.





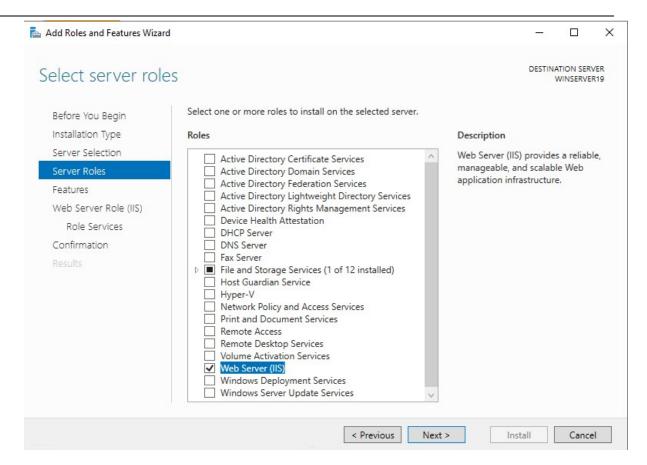


3. On the **Server Selection** page select the desired destination server from the **server pool** and click **Next** >.



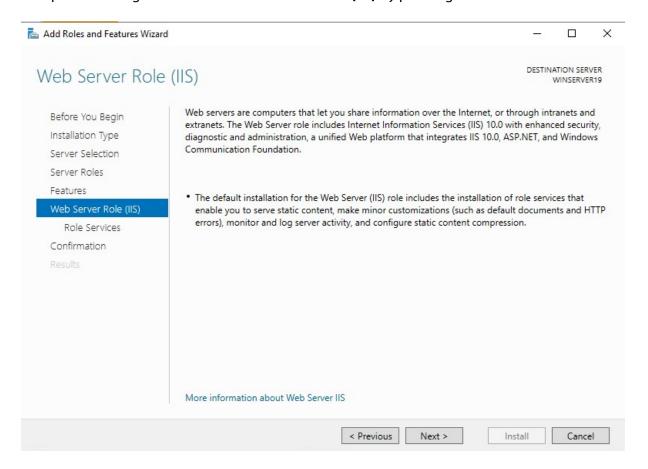
4. On the **Server Roles** page, select **Web Server (IIS)** in the **Roles** menu and click **Next >** to proceed.





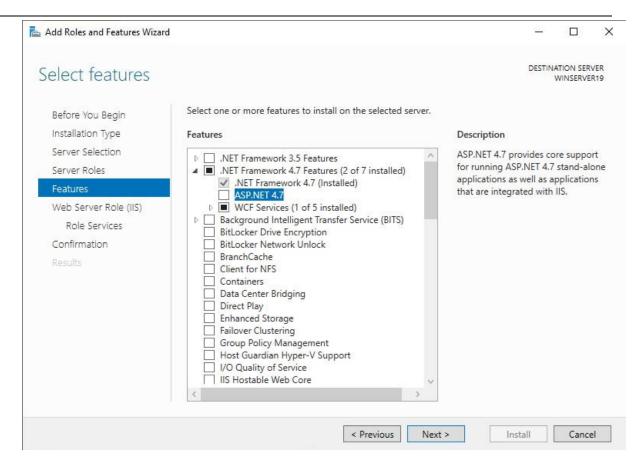


5. Accept the message shown on the **Web Server Role (IIS)** by pressing the **Next >** button.



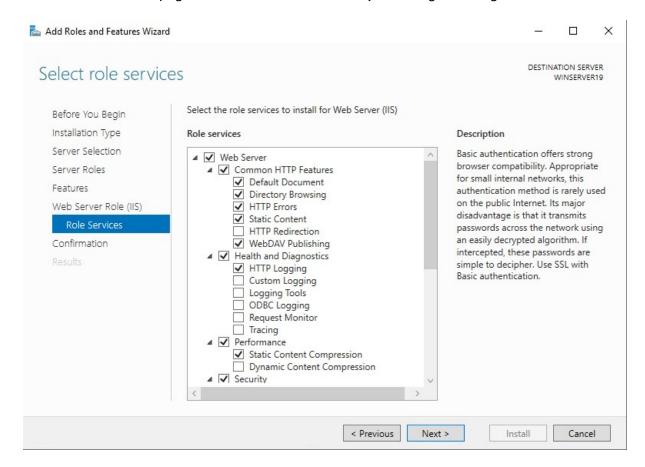
6. On the **Features** page, expand the **.NET Framework 4.7** Features and then select **ASP .NET 4.7**. Press **Next >** to proceed.







7. On the **Role Services** page customize the installation by selecting following services:

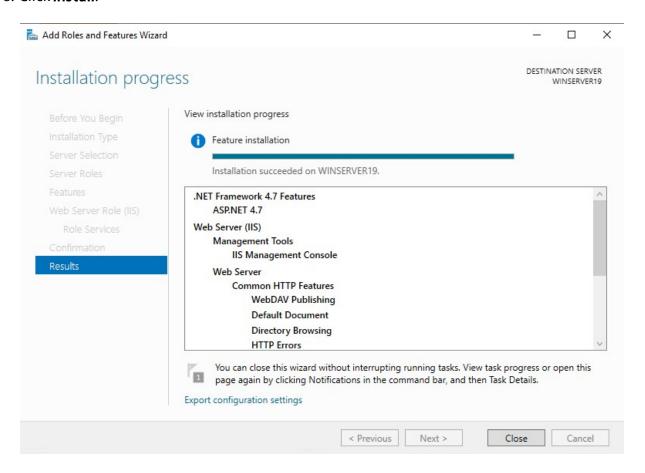


Required services:

Web Server Common HTTP Features **Default Document Directory Browsing** HTTP Errors Static Content WebDAV Publishing **Health and Diagnostics HTTP Logging** Performance **Static Content Compression** Security Request Filtering **Basic Authentication** Windows Authentication **Management Tools** IIS Management Console



8. Click Install.



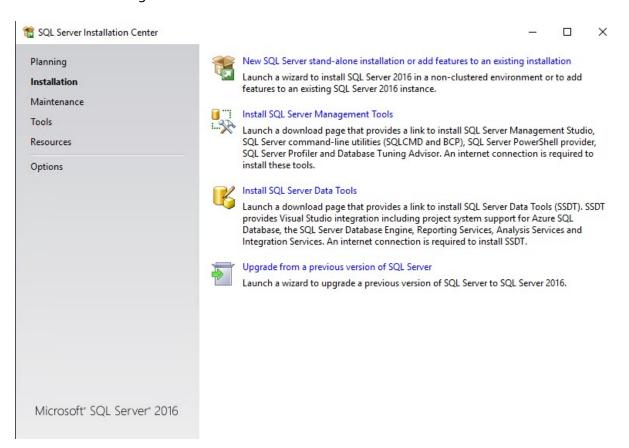
- 9. When the IIS installation completed, the wizard reflects the installation status.
- 10.Click **Close** to exit the wizard and Restart your server.



Set-up SQL Server

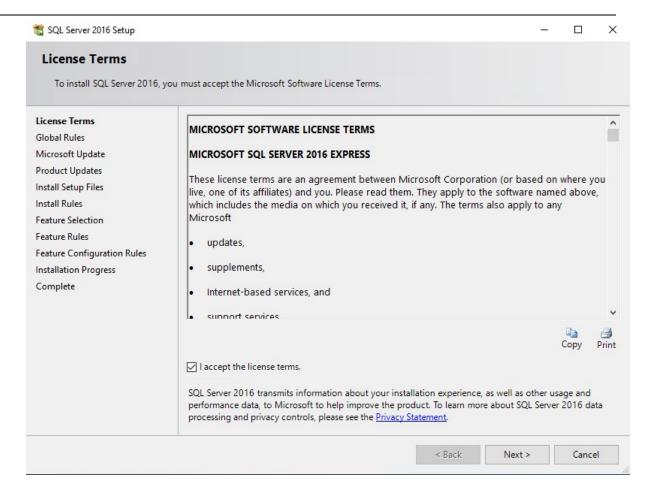
To initialize the installation, start the Setup.exe from DVD/ISO/file share.

1. Start the installation by selecting the option New SQL Server stand-alone installation or add feature to an existing installation.



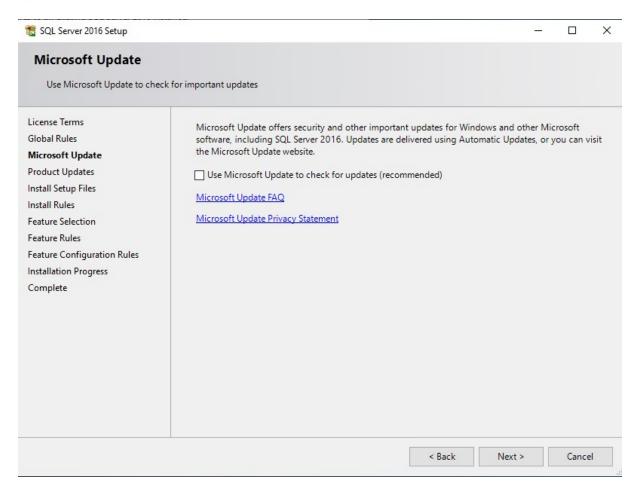
2. Check accept the license terms and click Next >.





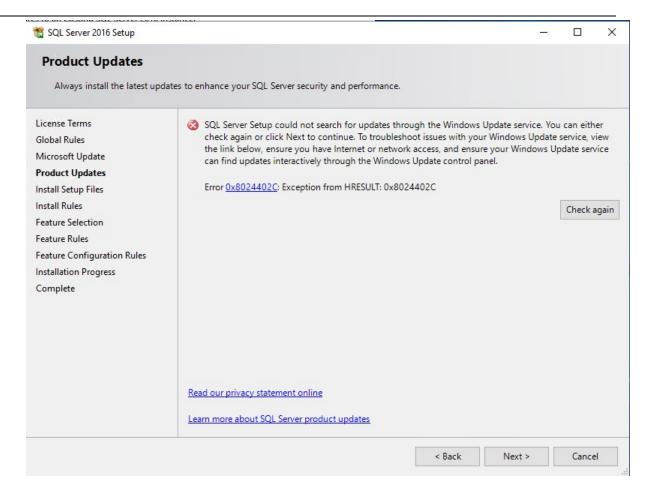


3. Although not mandatory, we recommend to check for any pending Microsoft Updates by ticking the checkbox. Otherwise, proceed by clicking the Next > without opting-in for updates.



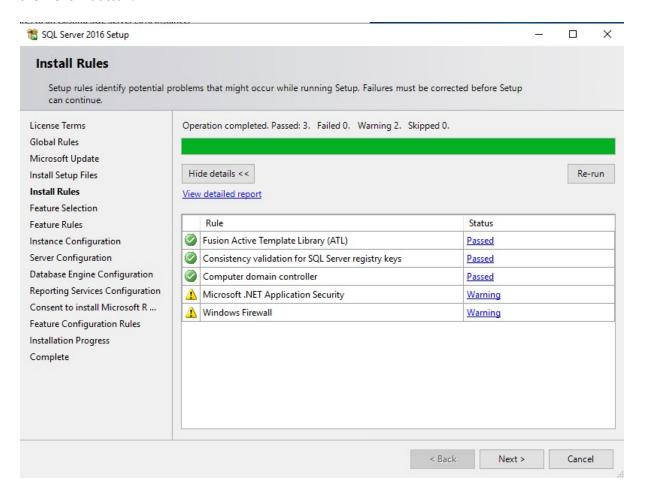
If an error is shown on the next page by connecting to the Windows Update service, ignore it by pressing Next >.





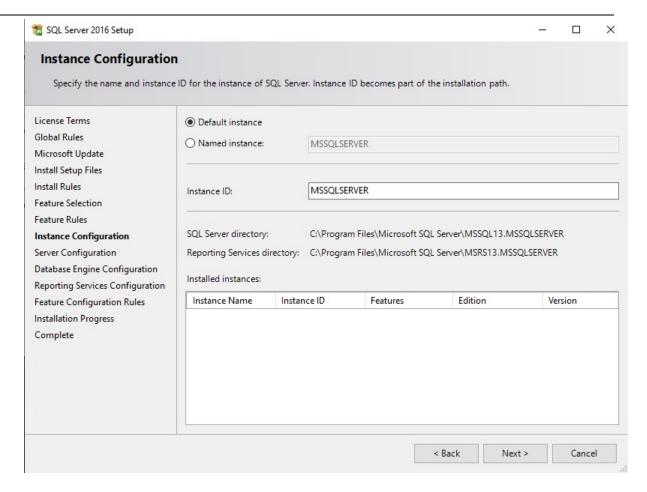


4. Ensure that every Support Rule has passed and ignore the Windows Firewall warning. Click on the Next > button.



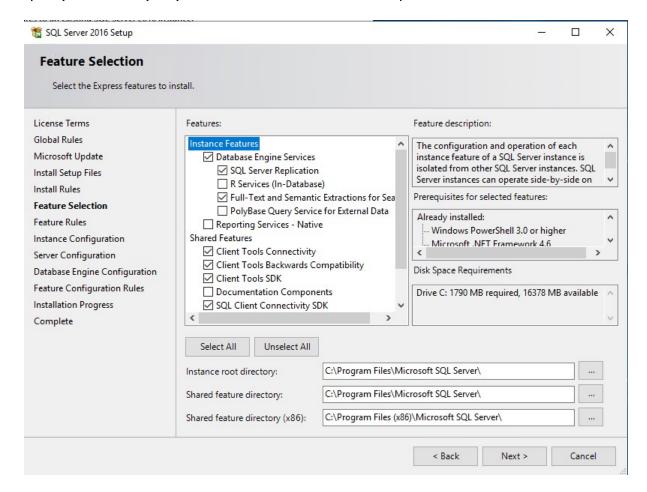
5. Use Default instance and default directories.







6. Specify the directory for your installation and click Next > to proceed with the installation.



Instance Features

Database Engine Services

SQL Server Replication

Full-Text and Semantic Extractions for Search

Shared Features

Client Tools Connectivity

Client Tools Backwards Compatiblity

Client Tools SDK

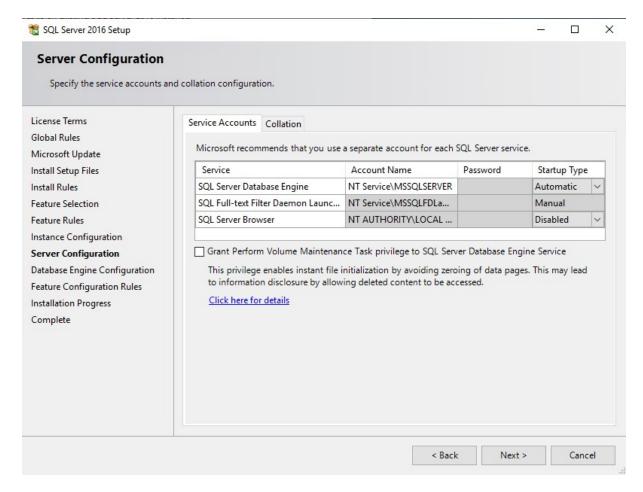
SQL Client Connectivity SDK

Database Engine Collation Latin1_General_CI_AS

On the next page verify the installation Rules for Passed or Not Applicable and go on with the Next > to the Instance Configuration.

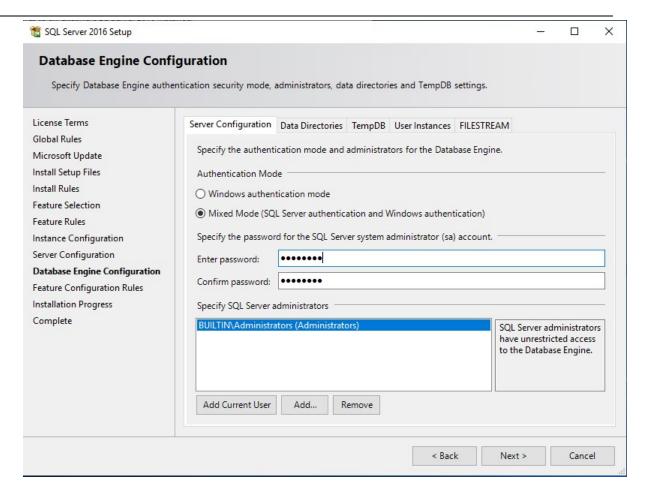


7. Setup the Service Accounts and click Next.



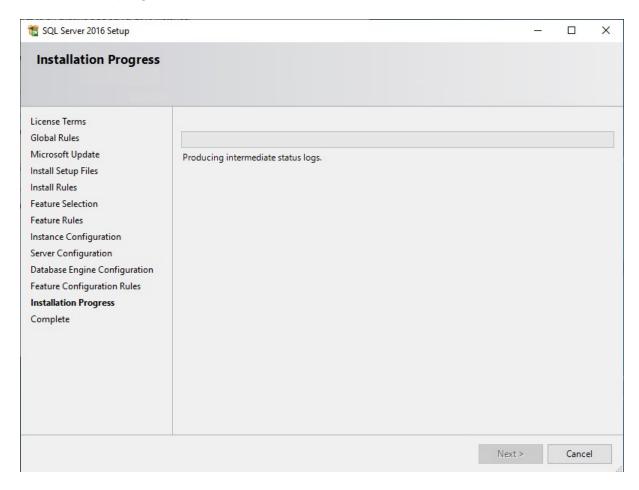
8. In the Database Engine Configuration set the SQL Server Administrators to Domain Admins and local System Admins, enable Mixed Mode, and click Next to proceed.





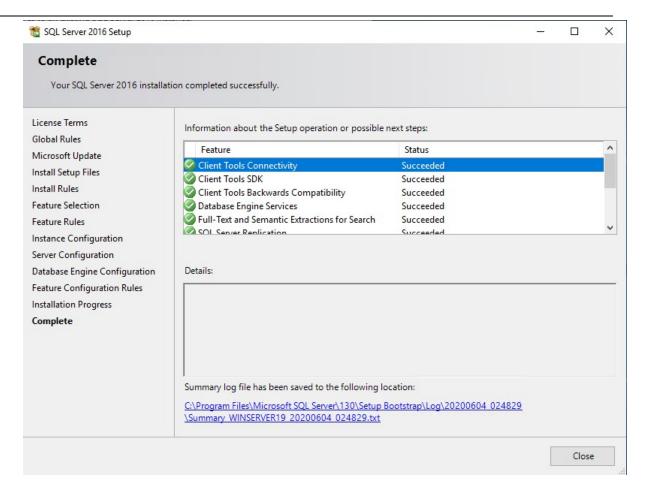


9. The Installation progress will be shown.



10. Verify if the Installation of various SQL Server features succeeded.





Installing RayVentory Server

1. Click Next >.



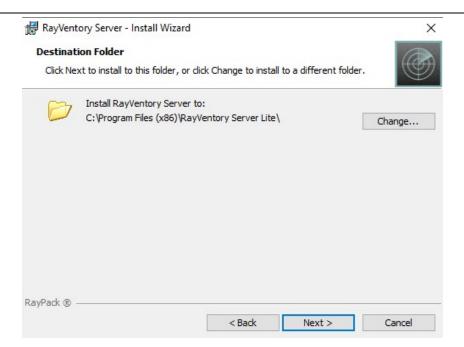


2. Check I accept the license agreement and click **Next** >.



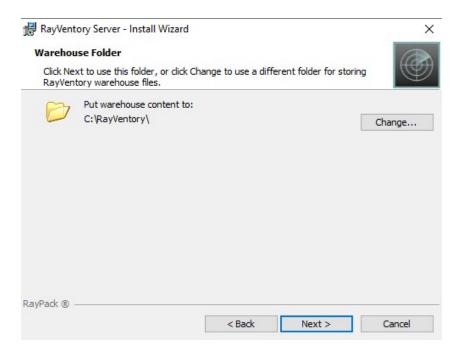
3. Select the Installation Destination folder for RayVentory Server and click **Next >**.



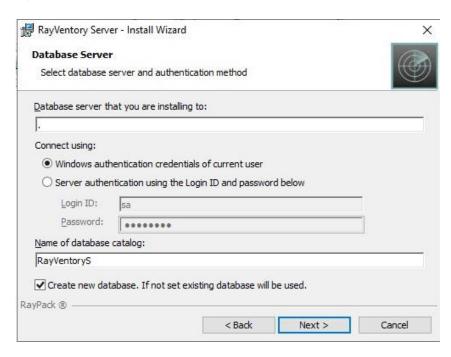




4. Set the Warehouse Destination Folder and click **Next >**.

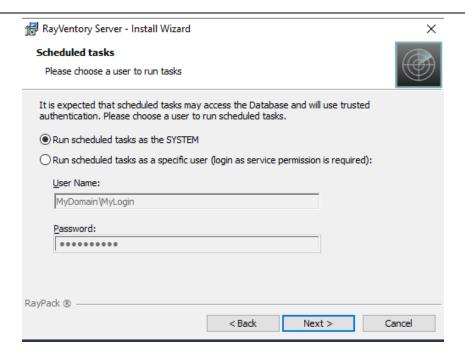


5. Input the Database server and the name of the Database and click **Next >** to proceed.



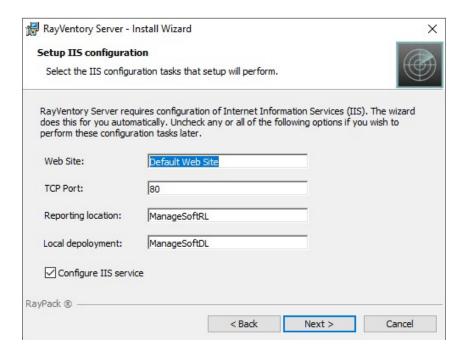
6. Specify in which context the schedules should be running and click **Next** >.







7. Setup the IIS configuration and click **Next** >.

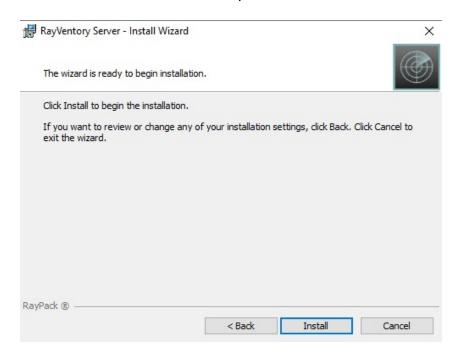




Be aware:

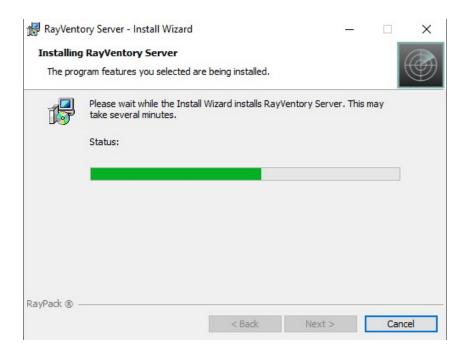
The TCP port option is for the HTTP protocol only. The HTTPS bindings need to created after the installation using the IIS Manager.

8. Click Install to start the installation process.



9. The installation is running.





10. The Database gets created.

```
C:\Program Files (x86)\RayVentory Server Lite\Database\mgsDatabaseCreate.exe — X

Starting update for Deployment Manager at 6/4/2020 4:37:43 AM.

Preparing to run step 'Creating the Deployment Manager Database'.
Required minimum database compatability level: SQL Server 2005 (90)
Found database compatability level: (130)
Executing step
Running 'CreateDatabase.sql'.

Running 'schema.sql'.
```

11. The installation has finished.





Installing RayVentory Server Without SYS Admin

In order to install RayVentory Server without SYS Admin access, the following steps must be executed:

Create a new database and add the scheduled tasks user of the RayVentory Server to that database as DBO.

During the <u>installation of RayVentory Server using the MSI</u> leave the <u>create database opti</u>on unchecked.



Be aware:

It is still necessary to provide the database server and the database name values!

Once the installation process has been completed the following steps are necessary:

- 1. Modify the DeploymentManagerDatabaseCreation.xml that can be found at INSTALLDIR\Database\ and remark out steps 0 and 3.
- 2. Open a command window using the scheduled tasks user of RayVentory Server.
- 3. Use the cd command to got to INSTALLDIR\Database\ and run the mgsDatabaseCreate.exe file with its required parameters.



Configuration

Data Upload User

Create a local Windows user and assign it Write permissions to the "DRIVE\RayVentory\Incoming \" directory

Windows Authentication

By default, the ManageSoftRL IIS virtual directory is configured with Basic Authentication. If Windows authentication is required instead, do the following:

Disable Basic Authentication and enable Windows Authentication for the ManageSoftRL IIS virtual directory

RayVentory Scan Engine

Create a Windows credential for RayVentory Server 12.0's data uploader local Windows user. Assign that credential to the *HTTP Services > Upload Location > Credentials* via its drop down menu after enabling this option

Encrypted Password

If either ndtrack or the standalone agent will be used, then an encrypted version of the RayVentory Server 12.0's data uploaded local Windows user password can be created for use within either a command line or the registry.

- Run the DRIVE\Program Files (x86)\RayVentoryServer\DotNet\Bin\credstoregui.exe file
- 2. Fill in the Username and Password fields within the File tab, select to either empty/ overwrite or append the credential store, and then press the [Save] button
- 3. Go to the String tab, enter the password in the Value: filed and then press the [Encrypt] button
- 4. Copy the result for use within either a command line or the registry



Migration

As RayVentory Server is a major release and is now a very light weight server, we recommends that customers build a new server instead of uninstalling their existing Server 11.4.1 or earlier instances. (refer to Appendix A for uninstall instructions).

Be aware that migrating to RayVentory Server will remove the ability for you to centrally manage your RV Agents as well as distribute their related package types throughout your hierarchy. Distribution Servers will also need to be replaced with the DS Lite product due to there being no replication hierarchy anymore.

User

The user needs to have local admin access on the server in order to install RayVentory Server, and should be DBO of the database.

Existing Database

If the Server 11.4.1 or earlier was installed via its automated process including SQL Server Express, then move the LDF & MDF files either to the new server or to a dedicated SQL Server.

DRIVE\ManageSoft\Repository\Database\

or

DRIVE\RayVentory\Repository\Database\

Database Migration

- 1. Backup the database
- 2. Open an administrative command window
- 3. Navigate to the Database Migration folder
- 4. Run mgsDatabaseUpdate.exe with the relevant command line parameters that suit your environment
- 5. Re-index the database by running the ReIndexAll.sql query against it



Paramet er	Value	Comment
-d	Database name	If not supplied, ManageSoft will be used
-f		Forces the database into single user mode
-i	DeploymentManagerMigration .xml	Configuration file describing the migration tasks
-1	Log file name	If not specified, DeploymentManagerMigration.log will be used
-s	Server name	SQL Server name + instance name if required
-u	User name	Only required if SQL authentication is being used
-p	Password	Required by the –u command

Installation

After the database has been migrated, run the RayVentory Server 12.0 MSI file from within an administrative command window, and follow its wizard.

The MSI installation process should also upgrade the migrated database; however, if it fails to do so or if applications are not allowed to perform such actions, navigate to the Database Creation folder from within an administrative command window and then run

mgsDatabaseCreate.exe:

mgsDatabaseCreate.exe -I DeploymentManagerDatabaseCreation.xml -s
<Server name> -a WindowsNT



Appendix A

- 1. Uninstall 'Deployment Manager for administration servers' from 'Programs and Features'
- 2. Uninstall 'RayVentory Portal' from 'Programs and Features' if it was installed as part of the RayVentory Server automated installation
- 3. Uninstall 'Java 8 Update 111' from 'Programs and Features'
- 4. Uninstall 'Microsoft Office 2003 Web Components' from 'Programs and Features'
- 5. Uninstall 'WinPcap 4.1.2' from 'Programs and Features'
- 6. Delete "DRIVE\Program Files (x86)\ManageSoft\" or "DRIVE\Program Files (x86)\RayVentory\" depending how RayVentory was installed
- 7. Delete "C:\Windows\Temp\ManageSoft\"
- 8. Delete all "C:\Users\<username>\AppData\Local\Temp\ManageSoft\" folders
- 9. Delete "C:\ProgramData\ManageSoft Corp\"
- 10. Delete "HKEY_LOCAL_MACHINE\SOFTWARE\}Wow6432Node\ManageSoft Corp\"
- 11. Remove the ManageSoftAppPool and ManageSoftWebServiceAppPool IIS application pools
- 12. Remove the ManageSoftREA IIS virtual directory
- 13. Delete the 'Import ManageSoft application usage logs', 'License Counting recalculate' and 'Rollout Waves control' scheduled tasks
- 14. Restart the server
- 15. Clean-up "DRIVE\ManageSoft\" or "DRIVE\RayVentory\" where necessary depending how RayVentory was installed (".\Repository\Database\" should be retained if Idf & mdf files exist)

RayVentory Server is part of the RaySuite

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