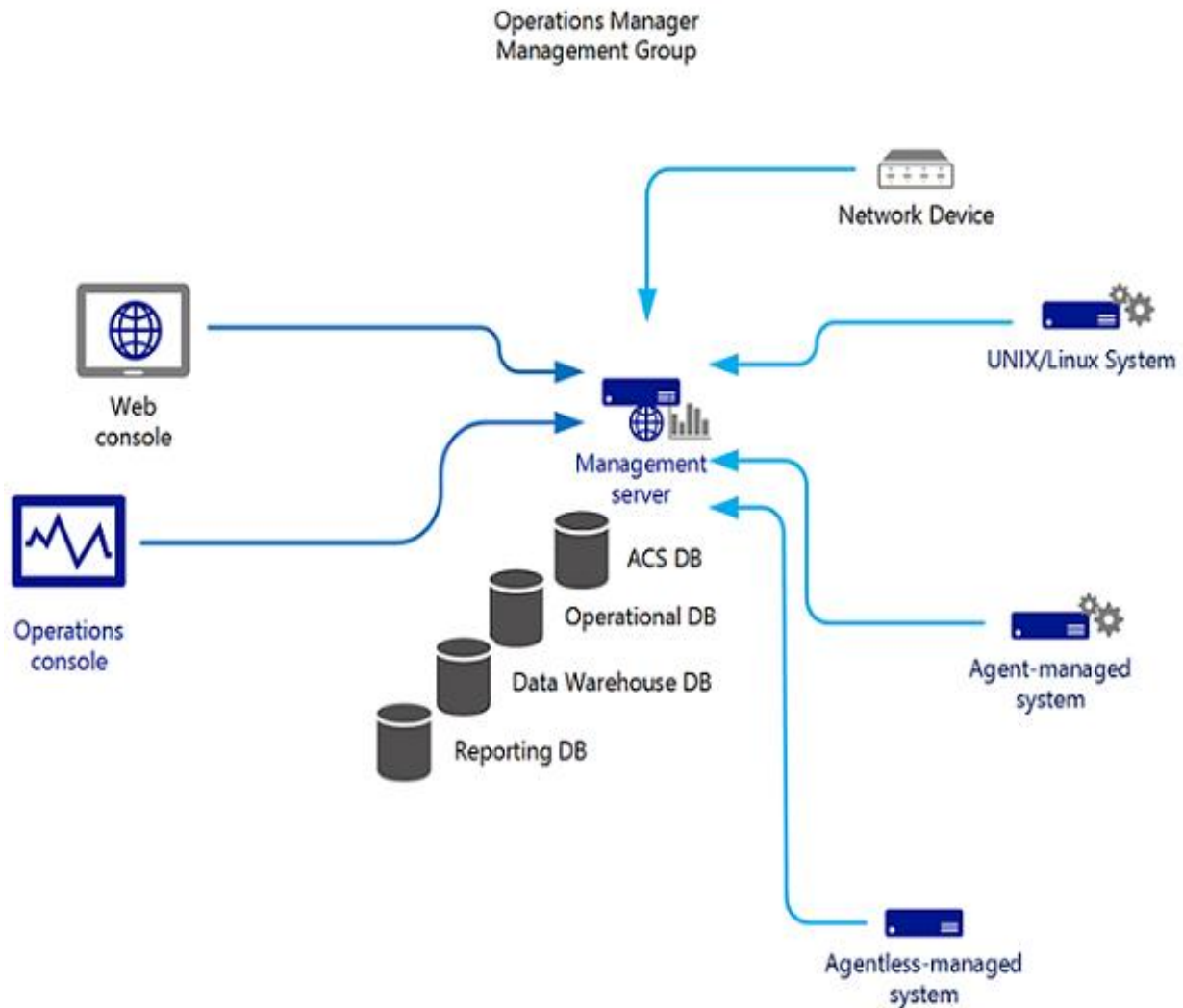


HOW TO INSTALL OPSMGR 1807 ON WINDOWS SERVER 2019

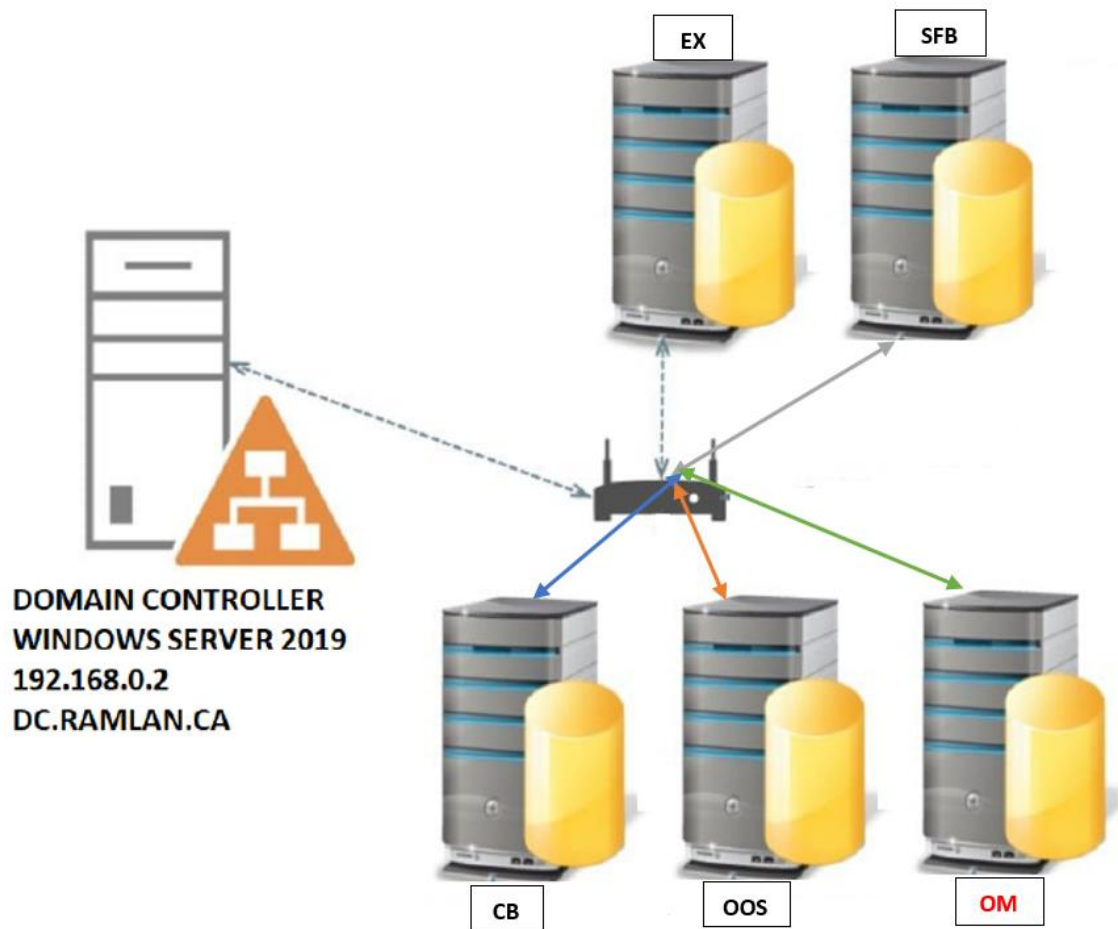
In this exercise, I will show you how to install OM 1807 (System Center Operations Manager) on Windows Server 2019 with SQL Server 2016 SP2 CU4.

I will be running all the roles (Management Server, Operations Console, Web Console & Reporting Server including SQL 2016 SP2 CU4) on a single server called **OM**.



SCOM Management Server:

DOMAIN - RAMLAN.CA



Windows Server 2019

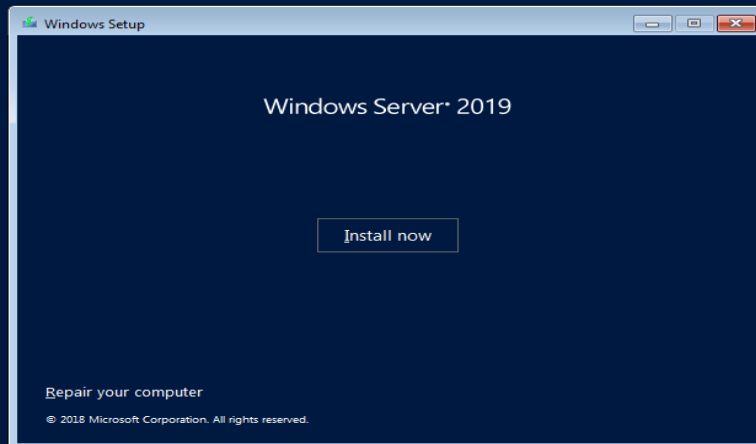
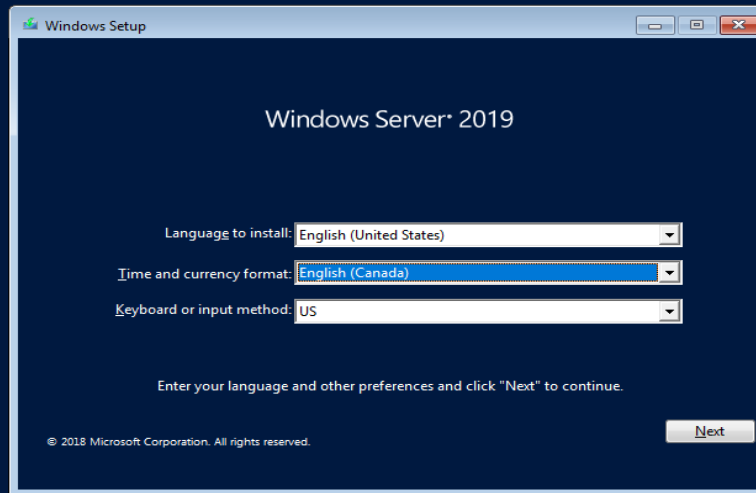
SQL Server 2016 SP2 CU4

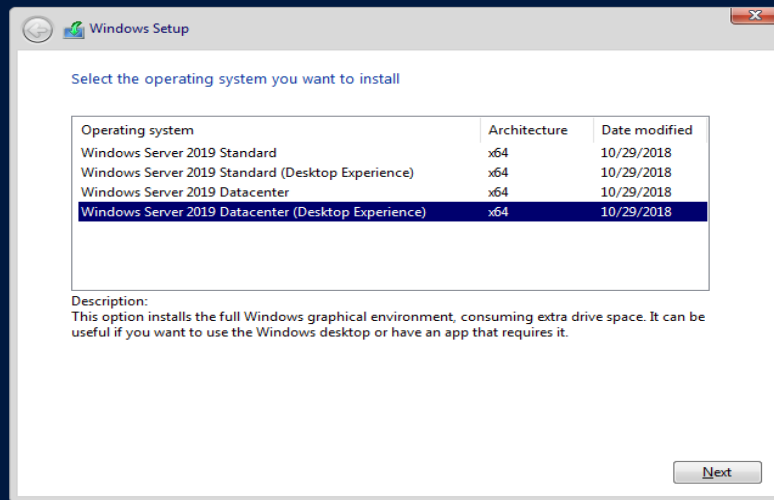
Memory – 10GB

Hard Disk – 250GB

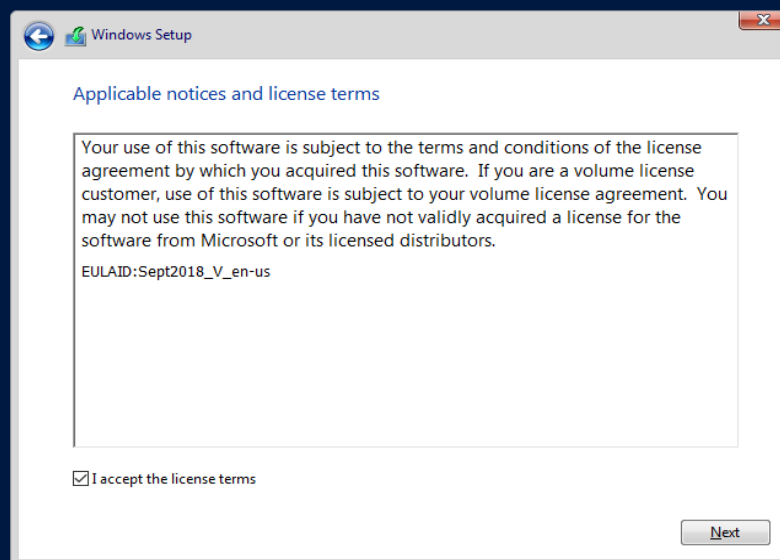
NIC – 1GB

Create a bootable USB and boot the system to start Server 2019 installation as described below:

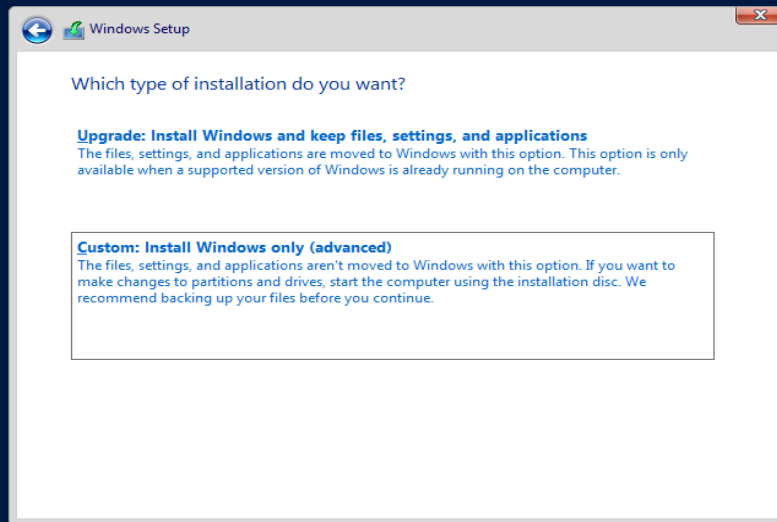




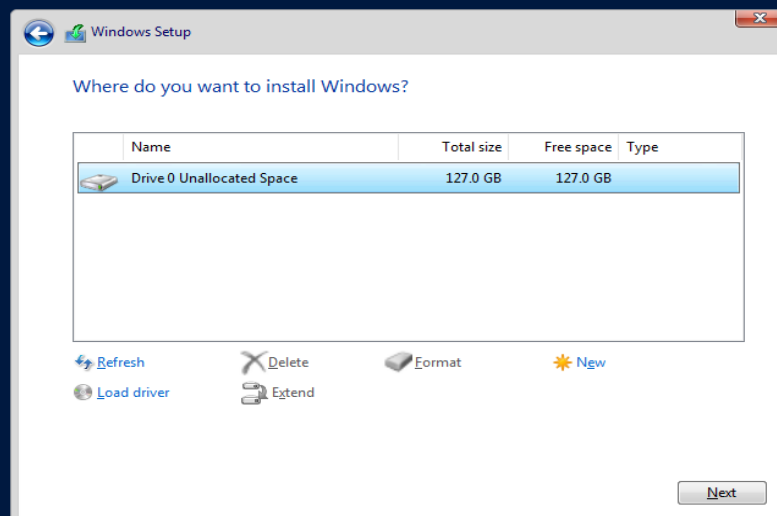
1 Collecting information 2 Installing Windows



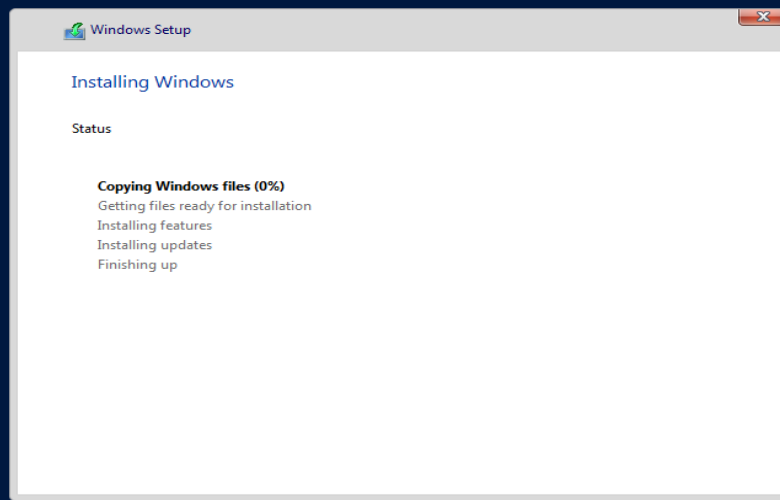
1 Collecting information 2 Installing Windows



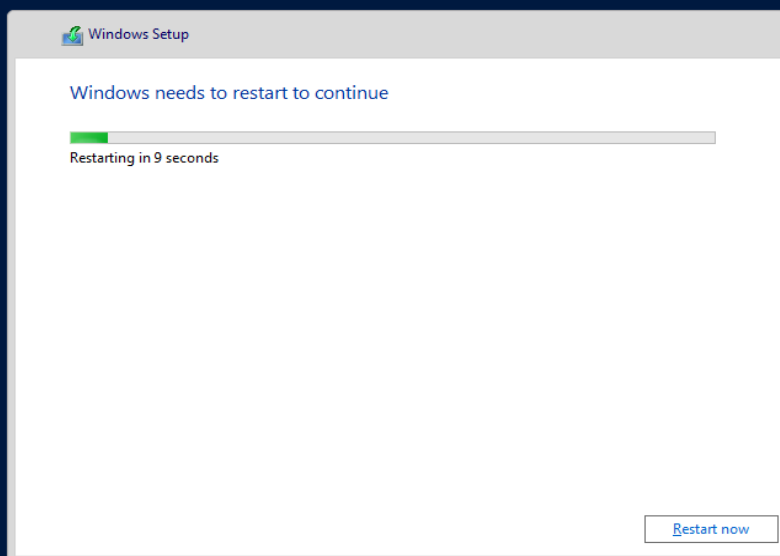
1 Collecting information 2 Installing Windows



1 Collecting information 2 Installing Windows



1 Collecting information 2 Installing Windows



1 Collecting information 2 Installing Windows

Hyper-V™



Starting services


Hyper-V™



Getting ready

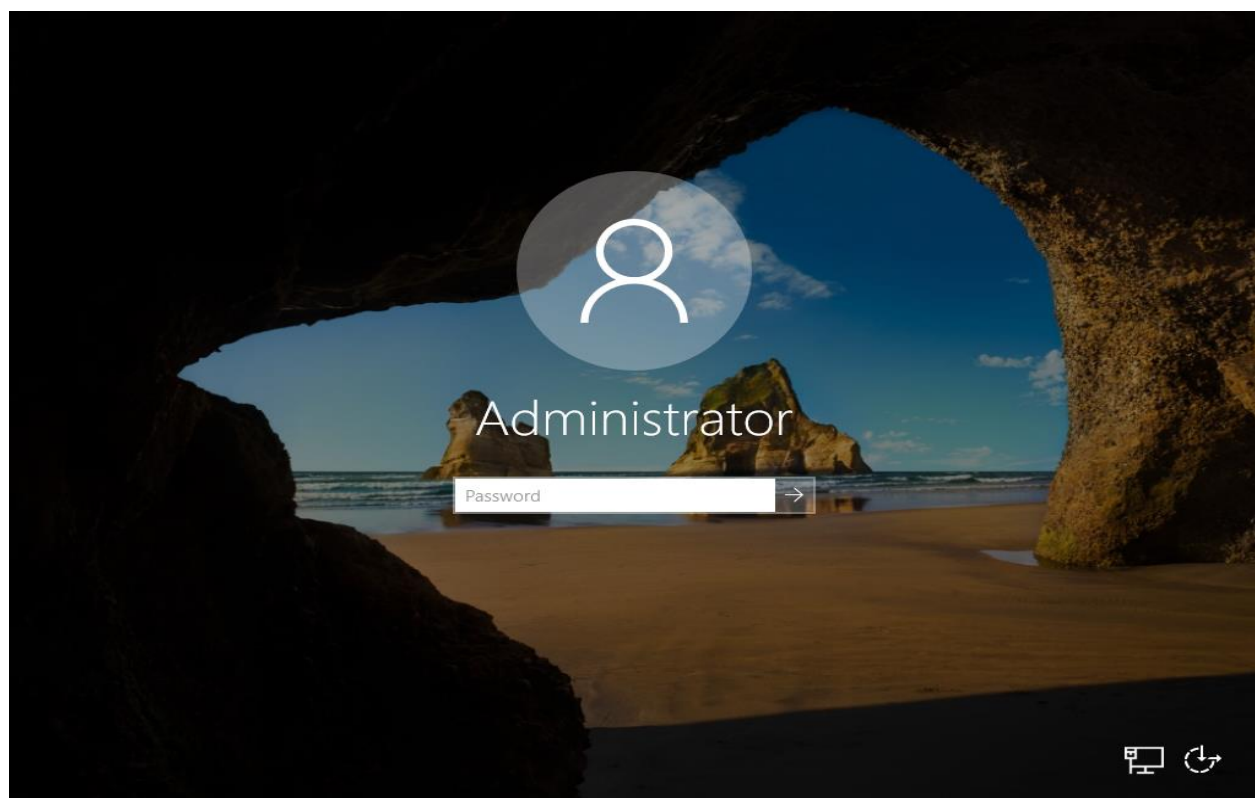
Customize settings

Type a password for the built-in administrator account that you can use to sign in to this computer.

User name	<input type="text" value="Administrator"/>
Password	<input type="password" value="••••••••"/>
Reenter password	<input type="password" value="••••••••"/> 



Finish



Server Manager

Server Manager > Local Server

Dashboard
Local Server
All Servers
File and Storage Services

PROPERTIES

For OM

Computer name	OM	Last installed updates	31-Dec-2018 9:40 PM
Domain	RAMLAN.CA	Windows Update	Download updates only, using a managed updating service
		Last checked for updates	Yesterday at 8:49 AM
Windows Defender Firewall	Domain: Off	Windows Defender Antivirus	Real-Time Protection: On
Remote management	Enabled	Feedback & Diagnostics	Settings
Remote Desktop	Enabled	IE Enhanced Security Configuration	Off
NIC Teaming	Disabled	Time zone	(UTC-05:00) Eastern Time (US & Canada)
Ethernet	192.168.0.4	Product ID	00430-00000-00000-AA500 (activated)
Operating system version	Microsoft Windows Server 2019 Datacenter	Processors	Intel(R) Core(TM) i7-2630QM CPU @ 2.00GHz
Hardware information	Microsoft Corporation Virtual Machine	Installed memory (RAM)	7.86 GB
		Total disk space	249.4 GB

EVENTS

All events | 0 total

Filter

Server Name	ID	Severity	Source	Log	Date and Time
-------------	----	----------	--------	-----	---------------

SERVICES

All services | 210 total

Filter

About Windows

Windows Server® 2019

Microsoft Windows Server
Version 1809 (OS Build 17763.107)
© 2018 Microsoft Corporation. All rights reserved.

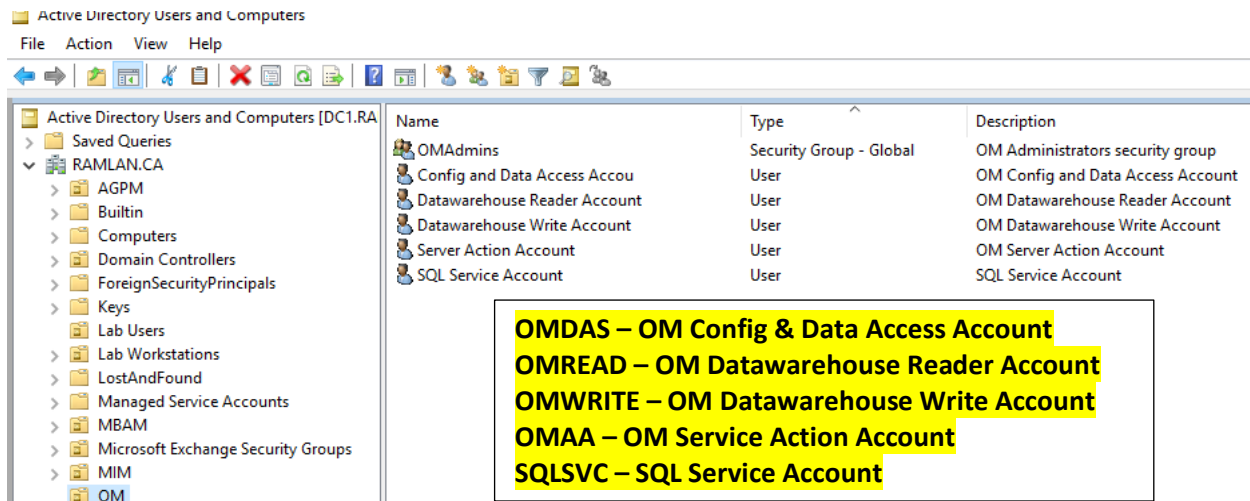
The Windows Server 2019 Datacenter operating system and its user interface are protected by trademark and other pending or existing intellectual property rights in the United States and other countries/regions.

This product is licensed under the [Microsoft Software License Terms](#) to:

Windows User

OK

Before you install OM 1807, please create these service accounts in AD. To keep things organized, I have created an OU called OM and inside that, I have created service accounts.



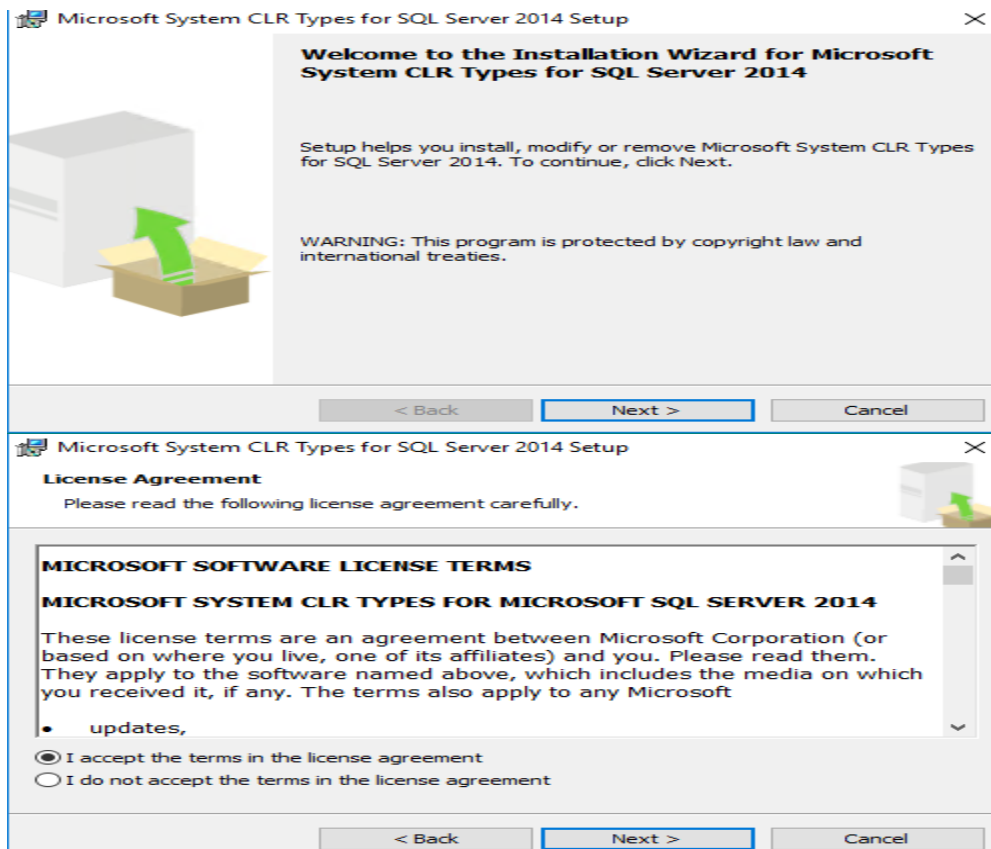
Make sure to add above users and groups to Local Administrator groups on OM Server

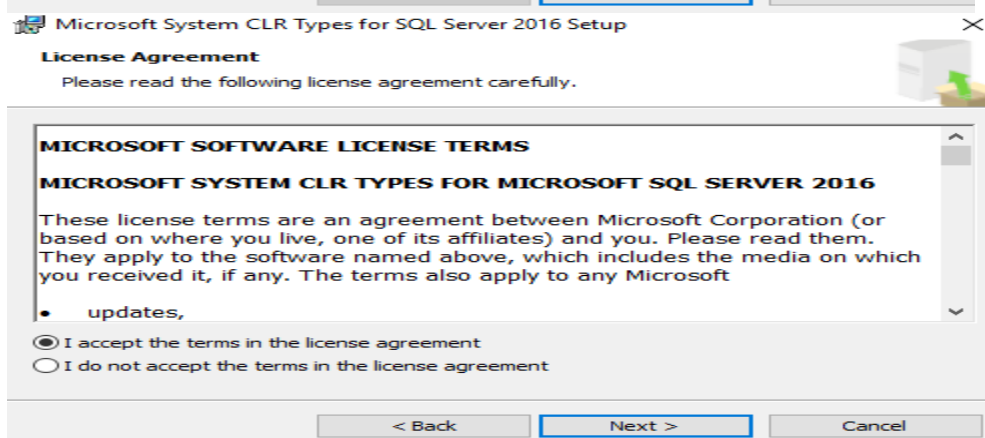
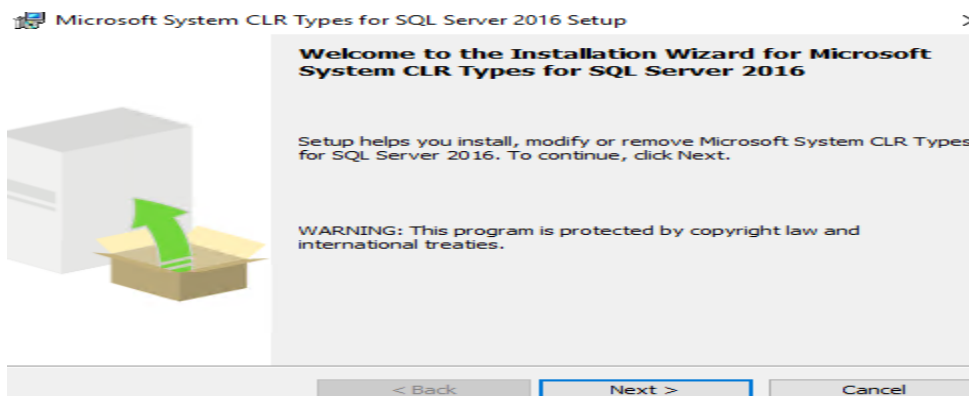
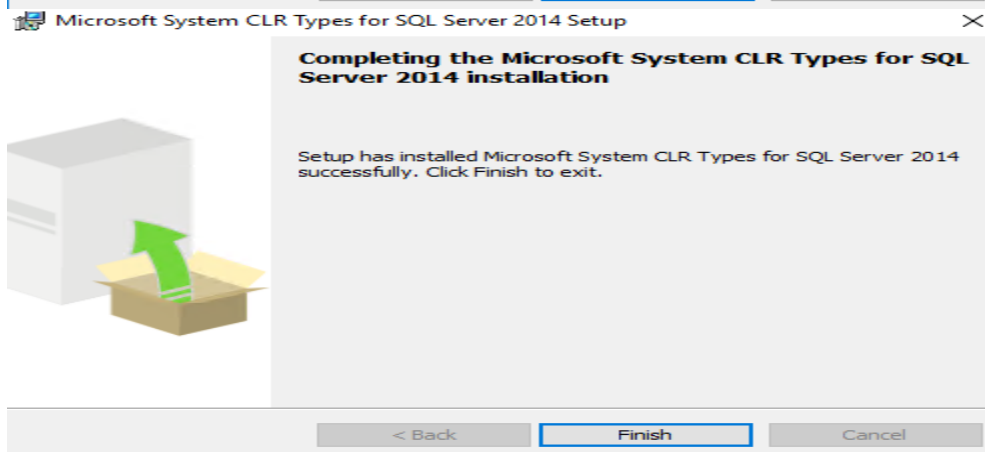
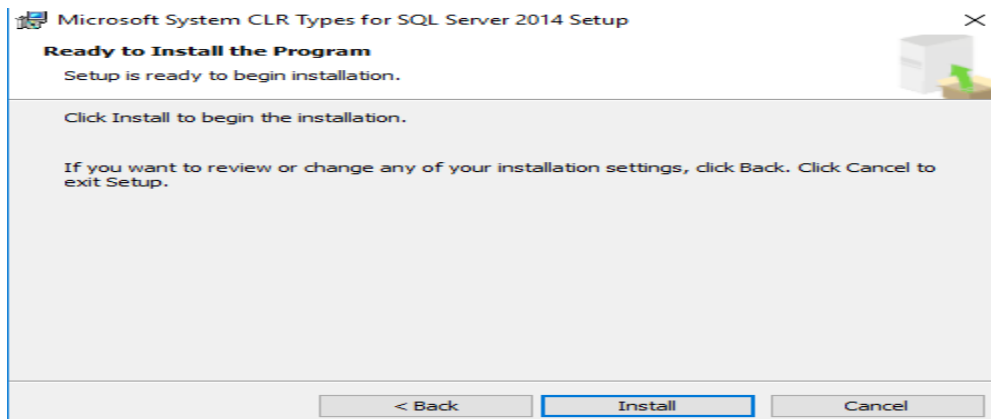
After that install these pre req (2014 SQLSysClrTypes, 2016 SQLSysClrTypes & ReportViewer)

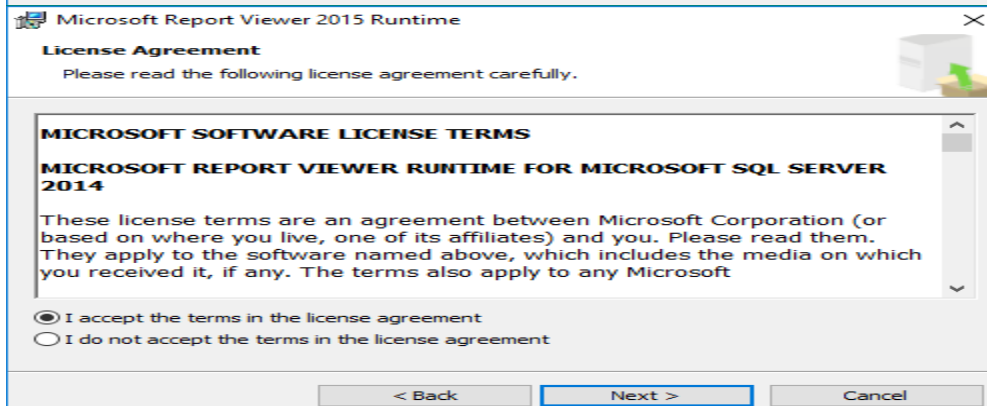
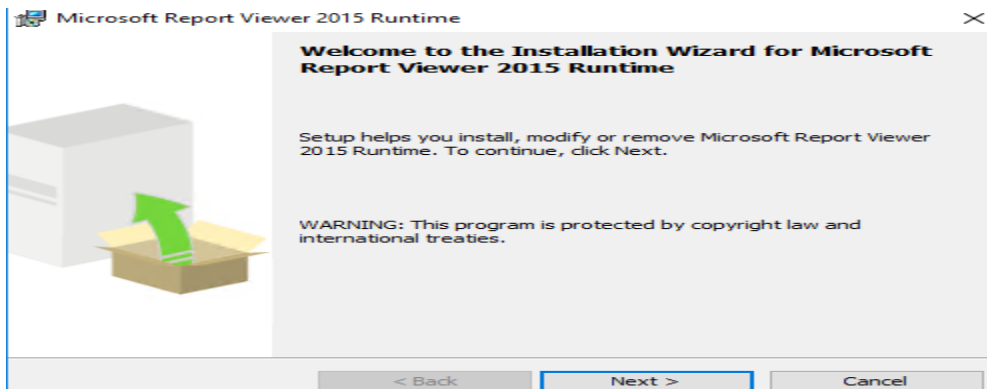
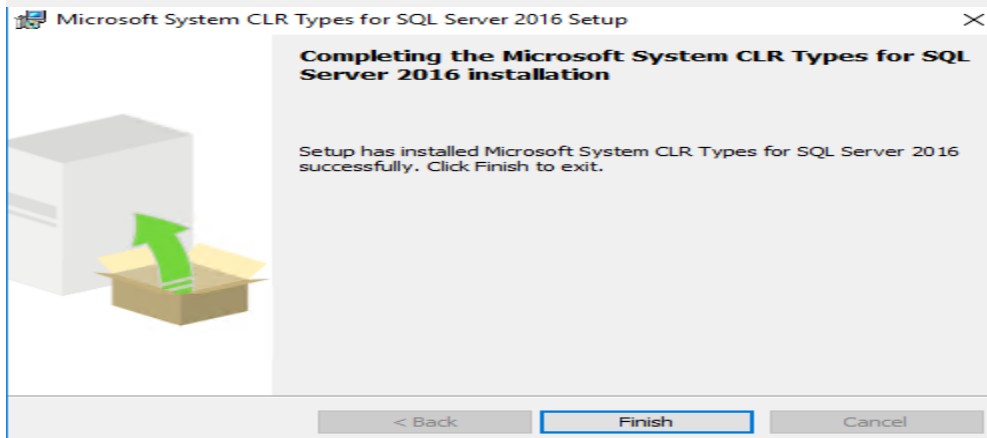
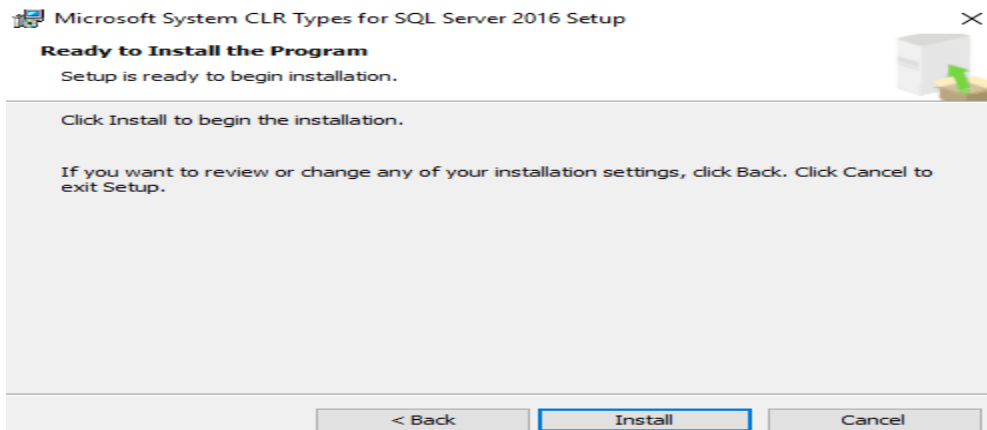
[2. ReportViewer.msi](#)

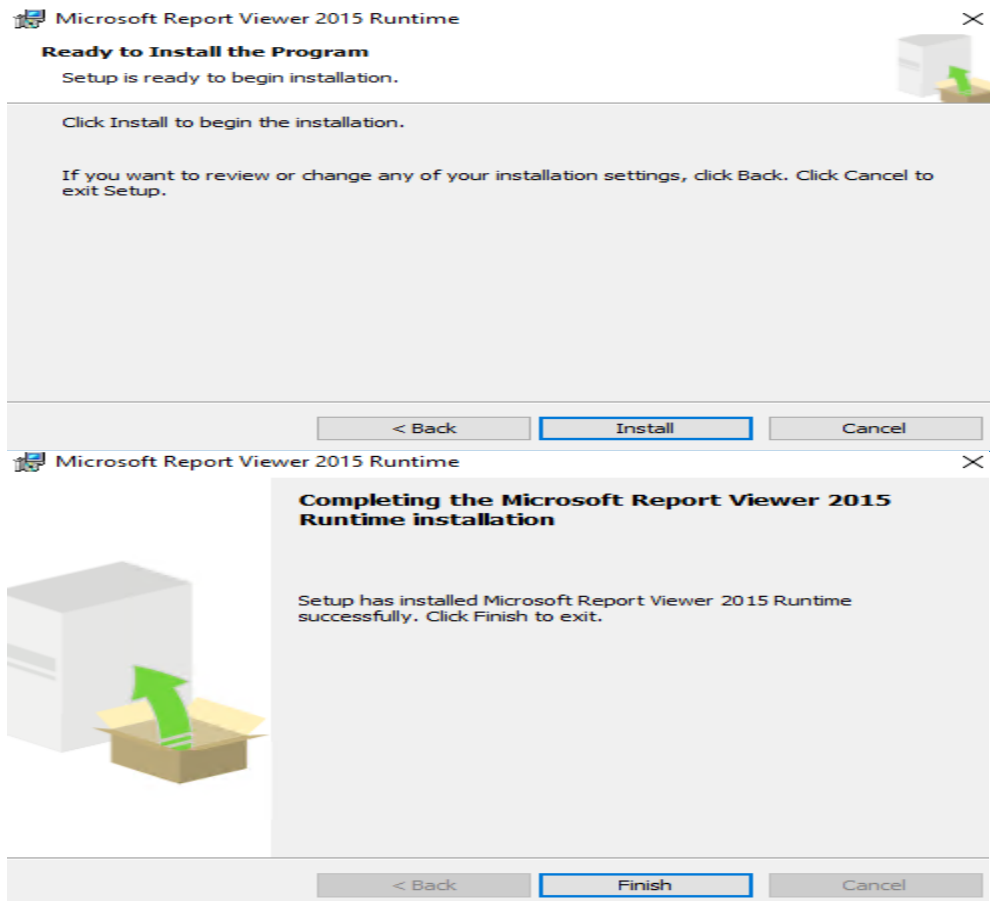
[3. 2016 SQLSysClrTypes.msi](#)

[4. 2014 SQLSysClrTypes.msi](#)









Open PowerShell as Administrator and run this command to install IIS and other components required for OM1807 Install. After the roles/features are installed restart the server.

```
Import-Module ServerManager
Add-WindowsFeature Web-Server, Web-WebServer, Web-Common-Http, Web-Default-
Doc, Web-Dir-Browsing, Web-Http-Errors, Web-Static-Content, Web-Health, Web-
Http-Logging, Web-Log-Libraries, Web-Request-Monitor, Web-Performance, Web-
Stat-Compression, Web-Security, Web-Filtering, Web-Windows-Auth, Web-App-Dev,
Web-Net-Ext45, Web-Asp-Net45, Web-ISAPI-Ext, Web-ISAPI-Filter, Web-Mgmt-
Tools, Web-Mgmt-Console, Web-Mgmt-Compat, Web-Metabase, NET-Framework-45-
Features, NET-Framework-45-Core, NET-Framework-45-ASPNET, NET-WCF-Services45,
NET-WCF-HTTP-Activation45, NET-WCF-TCP-PortSharing45, WAS, WAS-Process-Model,
WAS-Config-APIs -restart
```

```
Administrator: Windows PowerShell
PS C:\> Import-Module ServerManager
PS C:\> Add-WindowsFeature Web-Server, Web-WebServer, Web-Common-Http, Web-Default-Doc, Web-Dir-Browsing, Web-Http-Error
s, Web-Static-Content, Web-Health, Web-Http-Logging, Web-Log-Libraries, Web-Request-Monitor, Web-Performance, Web-Stat-C
ompression, Web-Security, Web-Filtering, Web-Windows-Auth, Web-App-Dev, Web-Net-Ext45, Web-Asp-Net45, Web-ISAPI-Ext, Web
-ISAPI-Filter, Web-Mgmt-Tools, Web-Mgmt-Console, Web-Mgmt-Compat, Web-Metabase, NET-Framework-45-Features, NET-Framework
-45-Core, NET-Framework-45-ASPNET, NET-WCF-Services45, NET-WCF-HTTP-Activation45, NET-WCF-TCP-PortSharing45, WAS, WAS-Pr
ocess-Model, WAS-Config-APIs -restart
```

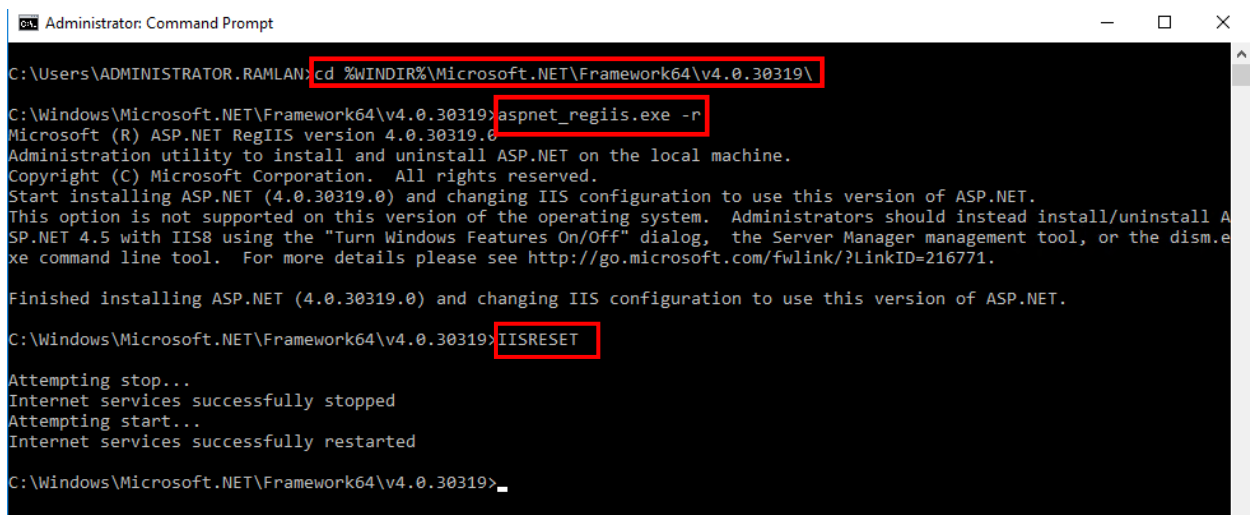
Success	Restart Needed	Exit Code	Feature	Result
True	No	Success	{Message Queuing, Message Queuing Server, ...	

Make sure to install this feature as well ASP 3.5 - ☒ ASP.NET 3.5 |

We have to register ASP.Net from command line and the steps are as follows:

Open Command Prompt as Administrator and run this command

1. cd %WINDIR%\Microsoft.NET\Framework64\v4.0.30319\
2. aspnet_regiis.exe -r
3. IISRESET



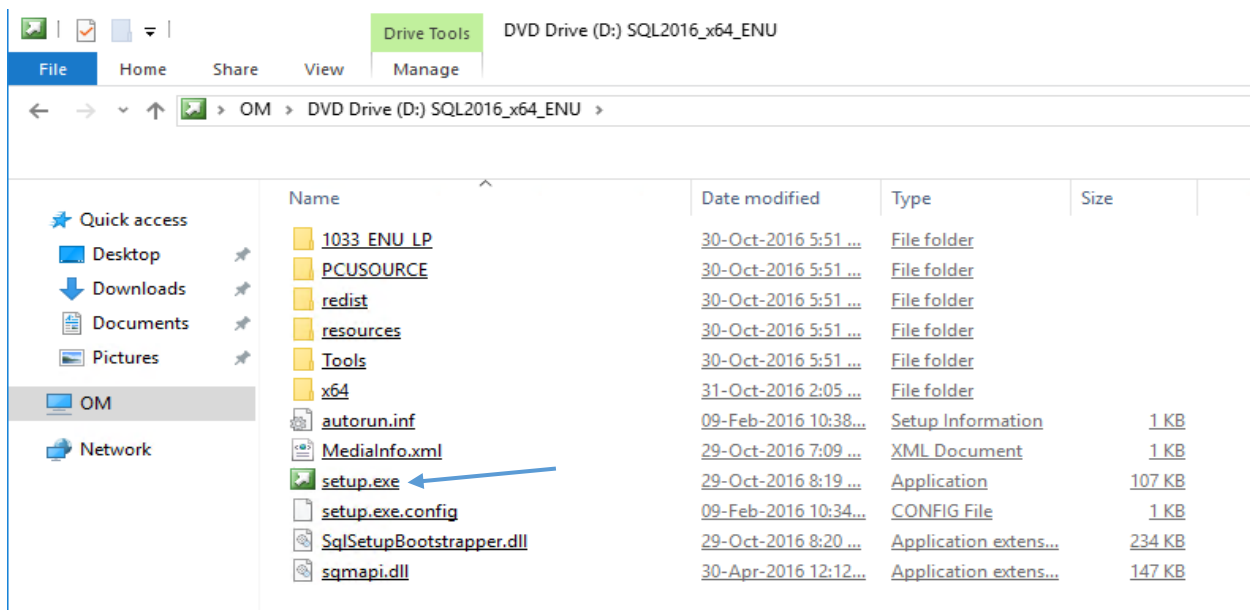
```
Administrator: Command Prompt
C:\Users\ADMINISTRATOR.RAMLAN>cd %WINDIR%\Microsoft.NET\Framework64\v4.0.30319\
C:\Windows\Microsoft.NET\Framework64\v4.0.30319>aspnet_regiis.exe -r
Microsoft (R) ASP.NET RegIIS version 4.0.30319.0
Administration utility to install and uninstall ASP.NET on the local machine.
Copyright (C) Microsoft Corporation. All rights reserved.
Start installing ASP.NET (4.0.30319.0) and changing IIS configuration to use this version of ASP.NET.
This option is not supported on this version of the operating system. Administrators should instead install/uninstall A
SP.NET 4.5 with IIS8 using the "Turn Windows Features On/Off" dialog, the Server Manager management tool, or the dism.e
xe command line tool. For more details please see http://go.microsoft.com/fwlink/?LinkID=216771.

Finished installing ASP.NET (4.0.30319.0) and changing IIS configuration to use this version of ASP.NET.

C:\Windows\Microsoft.NET\Framework64\v4.0.30319>IISRESET
Attempting stop...
Internet services successfully stopped
Attempting start...
Internet services successfully restarted
C:\Windows\Microsoft.NET\Framework64\v4.0.30319>
```

Restart the server

Now we will install **SQL 2016 SP1** by mounting the ISO and run setup.exe. Within SQL install, I will be creating two instances (one for SCOM Operations Manager **SCOM_OPSMGR** and one for Data Warehouse **SCOM_DW**).



SQL Server Installation Center

Planning

Installation

Maintenance

Tools

Resources

Advanced

Options

Microsoft® SQL Server® 2016



New SQL Server stand-alone installation or add features to an existing installation

Launch a wizard to install SQL Server 2016 in a non-clustered environment or to add features to an existing SQL Server 2016 instance.



Install SQL Server Management Tools

Launch a download page that provides a link to install SQL Server Management Studio, SQL Server command-line utilities (SQLCMD and BCP), SQL Server PowerShell provider, 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 support for Azure SQL Database, the SQL Server Database Engine, Reporting Services, Analysis Services and Integration Services. An internet connection is required to install SSDT.



New SQL Server failover cluster installation

Launch a wizard to install a single-node SQL Server 2016 failover cluster.



Add node to a SQL Server failover cluster

Launch a wizard to add a node to an existing SQL Server 2016 failover cluster.



Upgrade from a previous version of SQL Server

Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2016.



New R Server (Standalone) installation

Launch a wizard to install R Server (Standalone) on a Windows machine. This is typically used by data scientists as a standalone analysis server or as a SQL Server R Services client.

SQL Server 2016 Setup

Product Key

Specify the edition of SQL Server 2016 to install.

Product Key

License Terms

Global Rules

Microsoft Update

Product Updates

Install Setup Files

Install Rules

Feature Selection

Feature Rules

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Validate this instance of SQL Server 2016 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.

☐ Specify a free edition:

Evaluation

☒ Enter the product key:

[Redacted Product Key]

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Cancel

SQL Server 2016 Setup

License Terms

To install SQL Server 2016, you must accept the Microsoft Software License Terms.

Product Key

License Terms

Global Rules

Microsoft Update

Product Updates

Install Setup Files

Install Rules

Feature Selection

Feature Rules

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT SQL SERVER 2016 ENTERPRISE

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. 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

- updates,
- supplements,
- Internet-based services, and
- support services.

☒ I accept the license terms.

SQL Server 2016 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 SQL Server 2016 data processing and privacy controls, please see the [Privacy Statement](#).

Copy Print

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Cancel

SQL Server 2016 Setup

Microsoft Update

Use Microsoft Update to check for important updates

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Microsoft Update offers security and other important updates for Windows and other Microsoft software, including SQL Server 2016. Updates are delivered using Automatic Updates, or you can visit the Microsoft Update website.

☒ Use Microsoft Update to check for updates (recommended)

[Microsoft Update FAQ](#)

[Microsoft Update Privacy Statement](#)

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SQL Server 2016 Setup

Install Setup Files

If an update for SQL Server Setup is found and specified to be included, the update will be installed.

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Task	Status
Scan for product updates	Completed
Download Setup files	Skipped
Extract Setup files	Skipped
Install Setup files	Not started

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Cancel

SQL Server 2016 Setup

Install Rules

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

Product Key
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Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

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

Hide details <<

Re-run

[View detailed report](#)

Rule	Rule name	Status
✓	Fusion Active Template Library (ATL)	Passed
✓	Consistency validation for SQL Server registry keys	Passed
✓	Computer domain controller	Passed
✓	Microsoft .NET Application Security	Passed
⚠	Windows Firewall	Warning

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Cancel

Feature Selection

Select the Enterprise features to install.

Product Key

License Terms

Global Rules

Microsoft Update

Product Updates

Install Setup Files

Install Rules

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Reporting Services Configuration

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Features:

Instance Features

- ☒ **Database Engine Services**
- ☐ SQL Server Replication
- ☐ R Services (In-Database)
- ☒ Full-Text and Semantic Extractions for Search
- ☐ Data Quality Services
- ☐ PolyBase Query Service for External Data
- ☐ Analysis Services
- ☒ Reporting Services - Native

Shared Features

- ☐ R Server (Standalone)
- ☐ Reporting Services - SharePoint
- ☐ Reporting Services Add-in for SharePoint Products
- ☐ Data Quality Client
- ☐ Client Tools Connectivity
- ☐ Integration Services
- ☐ Client Tools Backwards Compatibility
- ☐ Client Tools SDK
- ☐ Documentation Components
- ☐ Distributed Replay Controller
- ☐ Distributed Replay Client
- ☐ SQL Client Connectivity SDK
- ☐ Master Data Services

Redistributable Features



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\

Feature description:

Includes the Database Engine, the core service for storing, processing and securing data. The Database Engine provides controlled access and rapid transaction processing and also provides rich support for sustaining high availability. The Database Engine also provides support for the utility control point in the SQL Server Utility. Only Database Engine Services and Analysis Services can be clustered.

Prerequisites for selected features:

Already installed:

- ... Windows PowerShell 3.0 or higher
- ... Microsoft .NET Framework 4.6

To be installed from media:

- ... Microsoft Visual Studio 2010 Redistributables
- ... Microsoft Visual Studio 2010 Shell

Disk Space Requirements

Drive C: 2322 MB required, 322349 MB available

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Cancel

Instance Configuration

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

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

☐ Default instance☒ Named instance:

SCOM_OPSMGR

Instance ID:

SCOM_OPSMGR

SQL Server directory:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR

Reporting Services directory:

C:\Program Files\Microsoft SQL Server\MSRS13.SCOM_OPSMGR

Installed instances:

Instance Name	Instance ID	Features	Edition	Version

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Cancel

Server Configuration

Specify the service accounts and collation configuration.

Product Key
License Terms
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Microsoft Update
Product Updates
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Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Service Accounts Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Agent	RAMLAN\SQLSVC	••••••••	Automatic ▾
SQL Server Database Engine	RAMLAN\SQLSVC	••••••••	Automatic ▾
SQL Server Reporting Services	NT AUTHORITY\SYSTEM		Automatic ▾
SQL Full-text Filter Daemon Launcher	NT Service\MSSQLFDLauncher\$SCOM_OPSMGR		Manual
SQL Server Browser	NT AUTHORITY\LOCAL SERVICE		Automatic ▾

☐ Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service

This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.

[Click here for details](#)

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Server Configuration

Specify the service accounts and collation configuration.

Product Key
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Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
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Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Service Accounts Collation

Database Engine:

SQL_Latin1_General_CP1_CI_AS

Customize...

Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode Data

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Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration | Data Directories | TempDB | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

☒ Windows authentication mode

☐ Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account.

Enter password:

Confirm password:

Specify SQL Server administrators

RAMLAN\ADMINISTRATOR (Administrator)

RAMLAN\ram (Ram)

RAMLAN\OMAA (Server Action Account)

RAMLAN\OMAdmins (OMAdmins)

RAMLAN\OMREAD (Datawarehouse Reader Account)

RAMLAN\OMWRITE (Datawarehouse Write Account)

RAMLAN\SQLSVC (SQL Service Account)

RAMLAN\OMDAS (Config and Data Access Accou)

OM\Administrator (Administrator)

SQL Server administrators have unrestricted access to the Database Engine.

Add Current User

Add...

Remove

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Next >

Cancel

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration | Data Directories | TempDB | FILESTREAM

Data root directory: ...

System database directory: ...

User database directory: ...

User database log directory: ...

Backup directory: ...

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Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration | Data Directories | TempDB | FILESTREAM

TempDB data files: tempdb.mdf

Number of files:

Initial size (MB): Total initial size (MB):

Autogrowth (MB): Total autogrowth (MB):

Data directories:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\Data

Add...

Remove

TempDB log file: templog.ldf

Initial size (MB):

Autogrowth (MB):

Log directory: ...

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SQL Server 2016 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Server Configuration | Data Directories | TempDB | FILESTREAM

☐ Enable FILESTREAM for Transact-SQL access

☐ Enable FILESTREAM for file I/O access

Windows share name: SCOM_OPSMGR

☐ Allow remote clients access to FILESTREAM data

< Back Next > Cancel

SQL Server 2016 Setup

Reporting Services Configuration

Specify the Reporting Services configuration mode.

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Reporting Services Native Mode

☒ Install and configure.
Installs and configures the report server in native mode. The report server is operational after setup completes.

☐ Install only.
Installs the report server files. After installation, use Reporting Services Configuration Manager to configure the report server for native mode.

Reporting Services SharePoint Integrated Mode

☐ Install only.
Installs the report server files. After installation use SharePoint Central Administration to complete the configuration. Verify the SQL Server Reporting Services service is started and create at least one SQL Server Reporting Services service application. For more information, click Help.

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SQL Server 2016 Setup

Ready to Install

Verify the SQL Server 2016 features to be installed.

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Ready to install SQL Server 2016:

- Summary
 - Edition: Enterprise
 - Action: Install (Product Update)
 - Prerequisites
 - Already installed:
 - Windows PowerShell 3.0 or higher
 - Microsoft .NET Framework 4.6
 - To be installed from media:
 - Microsoft Visual Studio 2010 Redistributables
 - Microsoft Visual Studio 2010 Shell
 - General Configuration
 - Features
 - Database Engine Services
 - Full-Text and Semantic Extractions for Search
 - Reporting Services - Native
 - Instance configuration
 - Instance Name: SCOM_OPSMGR
 - Instance ID: SCOM_OPSMGR
 - Instance IDs
 - SQL Database Engine: MSSQL13.SCOM_OPSMGR
 - Reporting Services: MSRS13.SCOM_OPSMGR
 - Instance Directory: C:\Program Files\Microsoft SQL Server\
 - Shared component root directory
 - Shared feature directory: C:\Program Files\Microsoft SQL Server\
 - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\
 - Product Update
 - Update Enabled: True
 - Update Source: Slipstream
 - Update Version: 13.1.4001.0
 - Instance configuration
 - Agent
 - Service Configuration
 - Account: RAMLAN\SQLSVC
 - Startup Type: Automatic
 - Database Engine
 - Service Configuration

Configuration file path:
C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20180424_091925\ConfigurationFile.ini

< Back Install Cancel

Ready to Install

Verify the SQL Server 2016 features to be installed.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install**
- Installation Progress
- Complete

Ready to install SQL Server 2016:

- Instant File Initialization: False
- Directory
 - System database directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\Data
 - User database directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\Data
 - User database log directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\Data
 - Backup directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\Backup
- TempDB
 - Number of data files: 1
 - Initial size of data file: 8 MB
 - Autogrowth of data file: 64 MB
 - Initial size of log file: 8 MB
 - Autogrowth of log file: 64 MB
 - TempDB data directories:
 - C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\Data
 - TempDB log directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\Data
- Collation: SQL_Latin1_General_CP1_CI_AS
- Security Mode: Windows authentication
- Administrators:
 - RAMLAN\ADMINISTRATOR
 - RAMLAN\ram
 - RAMLAN\OMAA
 - RAMLAN\OMAdmins
 - RAMLAN\OMREAD
 - RAMLAN\OMWRITE
 - RAMLAN\SQLSVC
 - RAMLAN\OMDAS
 - OM\Administrator
- Reporting Services
 - Reporting Services Installation mode: DefaultNativeMode
- Service Configuration
 - Account: NT AUTHORITY\SYSTEM
 - Startup Type: Automatic
- SQL Full-text Filter Daemon Launcher
 - Service Configuration
 - Account: NT Service\MSSQLFDLauncher\$SCOM_OPSMGR
 - Startup Type: Manual

Configuration file path:

C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20180424_091925\ConfigurationFile.ini

< Back

Install

Cancel

Complete

Your SQL Server 2016 installation completed successfully with product updates.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete**

Information about the Setup operation or possible next steps:

Feature	Status
Reporting Services - Native	Succeeded
Database Engine Services	Succeeded
Full-Text and Semantic Extractions for Search	Succeeded
SQL Browser	Succeeded
SQL Writer	Succeeded
SQL Client Connectivity	Succeeded
SQL Client Connectivity SDK	Succeeded
Setup Support Files	Succeeded

Details:

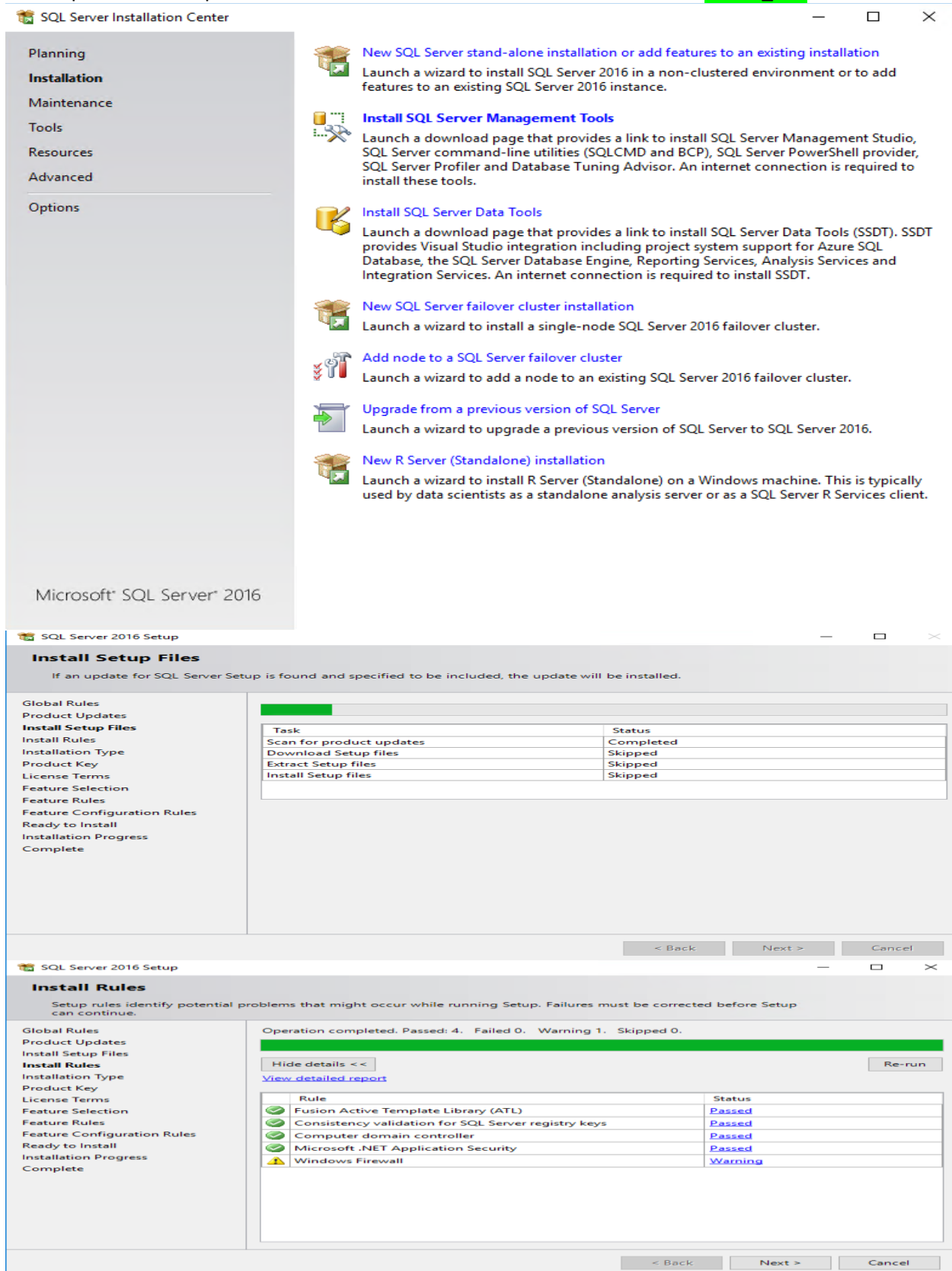
Product Update:
Product Update has successfully applied KB 3182545 <<http://support.microsoft.com/?id=3182545>>. These updates have set the patch level of the Setup operation to 13.1.4001.0.

Summary log file has been saved to the following location:

C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20180424_091925\Summary_OM_20180424_091925.txt

Close

Now repeat above steps to create another SQL instance for Data Warehouse **SCOM_DW**



Installation Type

Perform a new installation or add features to an existing instance of SQL Server 2016.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

☒ Perform a new installation of SQL Server 2016

Select this option if you want to install a new instance of SQL Server or want to install shared components.

☐ Add features to an existing instance of SQL Server 2016

SCOM_OPSMGR

Select this option if you want to add features to an existing instance of SQL Server. For example, you want to add the Analysis Services features to the instance that contains the Database Engine. Features within an instance must be the same edition.

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
SCOM_OPSMGR	MSSQL13.SCOM_O...	SQLEngine,SQLEn...	Enterprise	13.1.4001.0

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Next >

Cancel

Product Key

Specify the edition of SQL Server 2016 to install.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Validate this instance of SQL Server 2016 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.

☐ Specify a free edition:

Evaluation

☒ Enter the product key:

< Back

Next >

Cancel

License Terms

To install SQL Server 2016, you must accept the Microsoft Software License Terms.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

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- updates,
- supplements,
- Internet-based services, and
- support services.

☒ I accept the license terms.

SQL Server 2016 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 SQL Server 2016 data processing and privacy controls, please see the [Privacy Statement](#).

Copy Print

< Back

Next >

Cancel

SQL Server 2016 Setup

Feature Selection

Select the Enterprise features to install.

Global Rules

Product Updates

Install Setup Files

Install Rules

Installation Type

Product Key

License Terms

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Reporting Services Configuration

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Features:

Instance Features

☒ Database Engine Services

☐ SQL Server Replication

☐ R Services (In-Database)

☐ Full-Text and Semantic Extractions for Sea

☐ Data Quality Services

☐ PolyBase Query Service for External Data

☐ Analysis Services

☒ Reporting Services - Native

Shared Features

☐ R Server (Standalone)

☐ Reporting Services - SharePoint

☐ Reporting Services Add-in for SharePoint Proc

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\

Feature description:

The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on

Prerequisites for selected features:

Already installed:

Windows PowerShell 3.0 or higher

Microsoft Visual Studio 2010 Redistributable

Disk Space Requirements

Drive C: 1902 MB required, 318802 MB available

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Next >

Cancel

SQL Server 2016 Setup

Instance Configuration

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

Global Rules

Product Updates

Install Setup Files

Install Rules

Installation Type

Product Key

License Terms

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Reporting Services Configuration

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Default instance

☒ Named instance:

SCOM_DW

Instance ID:

SCOM_DW

SQL Server directory:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW

Reporting Services directory:

C:\Program Files\Microsoft SQL Server\MSRS13.SCOM_DW

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
SCOM_OPSMGR	MSSQL13.SCOM_O...	SQLEngine,SQLEn...	Enterprise	13.1.4001.0

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Next >

Cancel

SQL Server 2016 Setup

Server Configuration

Specify the service accounts and collation configuration.

Global Rules

Product Updates

Install Setup Files

Install Rules

Installation Type

Product Key

License Terms

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Reporting Services Configuration

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Service Accounts

Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Agent	RAMLAN\SQLSVC	••••••••	Automatic
SQL Server Database Engine	RAMLAN\SQLSVC	••••••••	Automatic
SQL Server Reporting Services	NT AUTHORITY\SYSTEM		Automatic
SQL Full-text Filter Daemon Laun...	NT Service\MSSQLFDLauncher\$SCOM_DW		Manual
SQL Server Browser	NT AUTHORITY\LOCALSERVICE		Automatic

☐ Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service

This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.

[Click here for details](#)

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Next >

Cancel

SQL Server 2016 Setup

Server Configuration

Specify the service accounts and collation configuration.

- Global Rules
- Product Updates
- Install Setup Files
- Install Rules
- Installation Type
- Product Key
- License Terms
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration**
- Database Engine Configuration
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Service Accounts

Collation

Database Engine:

SQL_Latin1_General_CP1_CI_AS

Customize...

Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode Data

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Next >

Cancel

SQL Server 2016 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

- Global Rules
- Product Updates
- Install Setup Files
- Install Rules
- Installation Type
- Product Key
- License Terms
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration

Data Directories

TempDB

FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

☒ Windows authentication mode

☐ Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account.

Enter password:

Confirm password:

Specify SQL Server administrators

RAMLAN\ADMINISTRATOR (Administrator)

RAMLAN\ram (Ram)

RAMLAN\OMAA (Server Action Account)

RAMLAN\OMAdmins (OMAdmins)

RAMLAN\OMDAS (Config and Data Access Accou)

RAMLAN\OMREAD (Datawarehouse Reader Account)

RAMLAN\OMWRITE (Datawarehouse Write Account)

RAMLAN\SQLSVC (SQL Service Account)

OM\Administrator (Administrator)

SQL Server administrators have unrestricted access to the Database Engine.

Add Current User

Add...

Remove

< Back

Next >

Cancel

SQL Server 2016 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

- Global Rules
- Product Updates
- Install Setup Files
- Install Rules
- Installation Type
- Product Key
- License Terms
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration

Data Directories

TempDB

FILESTREAM

Data root directory:

C:\Program Files\Microsoft SQL Server\

System database directory:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data

User database directory:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data

User database log directory:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data

Backup directory:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Backup

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Next >

Cancel

SQL Server 2016 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

- Global Rules
- Product Updates
- Install Setup Files
- Install Rules
- Installation Type
- Product Key
- License Terms
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration

Data Directories

TempDB

FILESTREAM

TempDB data files:

tempdb.mdf

Number of files:

1

Initial size (MB):

8

Total initial size (MB):

8

Autogrowth (MB):

64

Total autogrowth (MB):

64

Data directories:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data

Add...

Remove

TempDB log file:

templog.ldf

Initial size (MB):

8

Autogrowth (MB):

64

Log directory:

C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data

< Back

Next >

Cancel

SQL Server 2016 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Server Configuration | Data Directories | TempDB | FILESTREAM

☐ Enable FILESTREAM for Transact-SQL access

☐ Enable FILESTREAM for file I/O access

Windows share name: SCOM_DW

☐ Allow remote clients access to FILESTREAM data

< Back Next > Cancel

SQL Server 2016 Setup

Reporting Services Configuration

Specify the Reporting Services configuration mode.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Reporting Services Native Mode

☒ Install and configure.
Installs and configures the report server in native mode. The report server is operational after setup completes.

☐ Install only.
Installs the report server files. After installation, use Reporting Services Configuration Manager to configure the report server for native mode.

Reporting Services SharePoint Integrated Mode

☐ Install only.
Installs the report server files. After installation use SharePoint Central Administration to complete the configuration. Verify the SQL Server Reporting Services service is started and create at least one SQL Server Reporting Services service application. For more information, click Help.

< Back Next > Cancel

SQL Server 2016 Setup

Ready to Install

Verify the SQL Server 2016 features to be installed.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Ready to install SQL Server 2016:

- Summary
 - Edition: Enterprise
 - Action: Install (Product Update)
- Prerequisites
 - Already installed:
 - Windows PowerShell 3.0 or higher
 - Microsoft Visual Studio 2010 Redistributables
 - Microsoft .NET Framework 4.6
- General Configuration
 - Features
 - Database Engine Services
 - Full-Text and Semantic Extractions for Search
 - Reporting Services - Native
 - Instance configuration
 - Instance Name: SCOM_DW
 - Instance ID: SCOM_DW
 - Instance IDs
 - SQL Database Engine: MSSQL13.SCOM_DW
 - Reporting Services: MSRS13.SCOM_DW
 - Instance Directory: C:\Program Files\Microsoft SQL Server\
 - Shared component root directory
 - Shared feature directory: C:\Program Files\Microsoft SQL Server\
 - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\
- Product Update
 - Update Enabled: True
 - Update Source: Slipstream
 - Update Version: 13.1.4001.0
- Instance configuration
 - Agent
 - Service Configuration
 - Account: RAMLAN\SQLSVC
 - Startup Type: Automatic
 - Database Engine
 - Service Configuration
 - Account: RAMLAN\SQLSVC
 - Startup Type: Automatic

Configuration file path:
C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20180424_095914\ConfigurationFile.ini

< Back Install Cancel

Ready to Install

Verify the SQL Server 2016 features to be installed.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Ready to install SQL Server 2016:

- Directory
 - System database directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data
 - User database directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data
 - User database log directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data
 - Backup directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Backup
- TempDB
 - Number of data files: 1
 - Initial size of data file: 8 MB
 - Autogrowth of data file: 64 MB
 - Initial size of log file: 8 MB
 - Autogrowth of log file: 64 MB
 - TempDB data directories:
 - C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data
 - TempDB log directory: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\Data
 - Collation: SQL_Latin1_General_CP1_CI_AS
 - Security Mode: Windows authentication
- Administrators:
 - RAMLAN\ADMINISTRATOR
 - RAMLAN\ram
 - RAMLAN\OMAA
 - RAMLAN\OMAdmins
 - RAMLAN\OMDAS
 - RAMLAN\OMREAD
 - RAMLAN\OMWRITE
 - RAMLAN\SQLSVC
 - OM\Administrator
- Reporting Services
 - Reporting Services Installation mode: DefaultNativeMode
 - Service Configuration
 - Account: NT AUTHORITY\SYSTEM
 - Startup Type: Automatic
 - SQL Full-text Filter Daemon Launcher
 - Service Configuration
 - Account: NT Service\MSSQLFDLauncher\$SCOM_DW
 - Startup Type: Manual

Configuration file path:

C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20180424_095914\ConfigurationFile.ini

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Install

Cancel

Complete

Your SQL Server 2016 installation completed successfully with product updates.

Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Information about the Setup operation or possible next steps:

Feature	Status
Reporting Services - Native	Succeeded
Database Engine Services	Succeeded
Full-Text and Semantic Extractions for Search	Succeeded

Details:

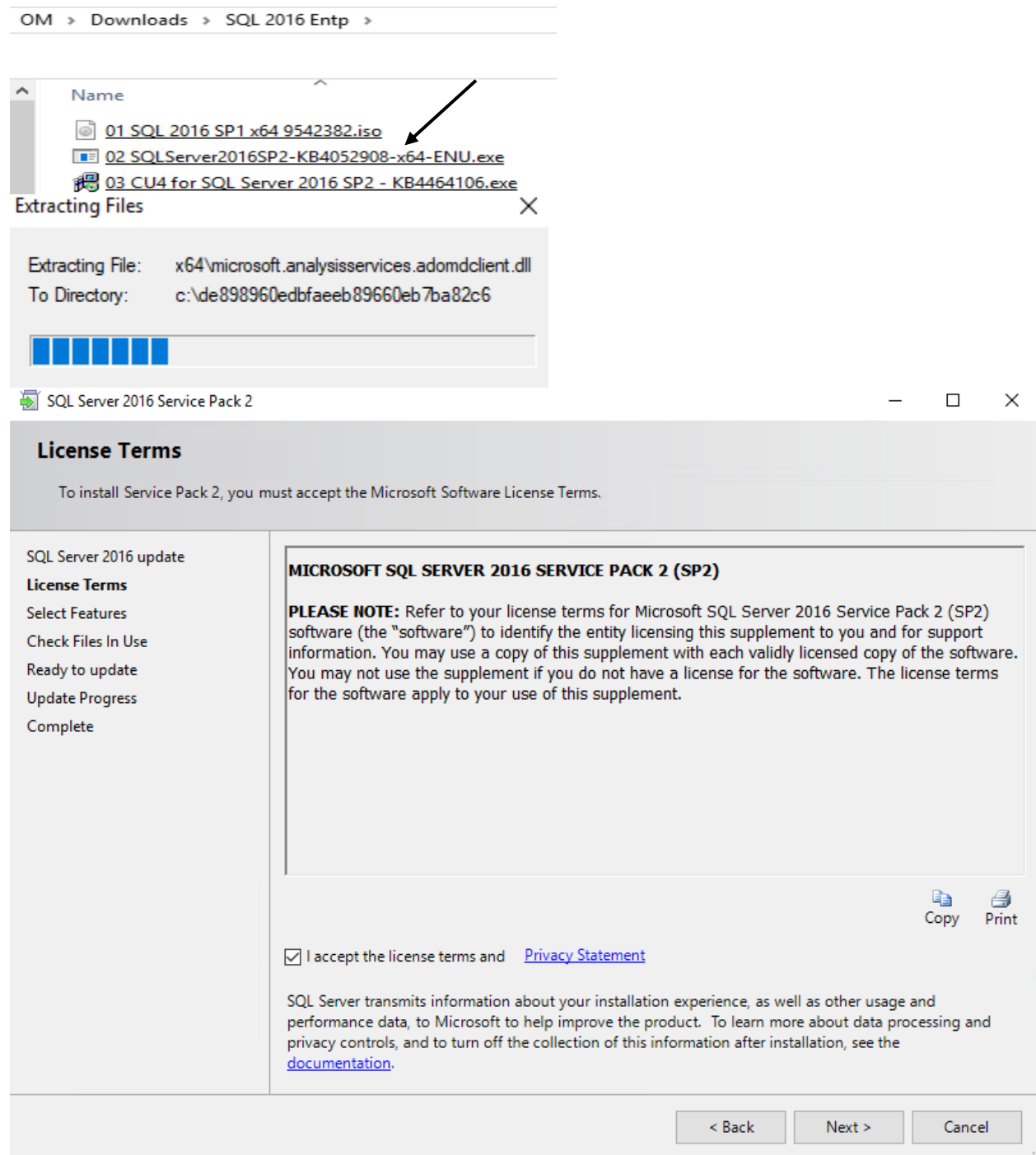
Product Update:
Product Update has successfully applied KB 3182545 <<http://support.microsoft.com/?id=3182545>>. These updates have set the patch level of the Setup operation to 13.1.4001.0.

Summary log file has been saved to the following location:

C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20180424_095914\Summary_OM_20180424_095914.txt

Close

Now we will install **SQL 2016 SP2**-KB4052908



Select Features

Specify the features to update.

SQL Server 2016 update

License Terms

Select Features

Check Files In Use

Ready to update

Update Progress

Complete

Instances:

- ☒ SCOM_OPSMGR
 - Database Engine Services
 - Full-Text and Semantic Extractions for Search
 - Reporting Services - Native
- ☒ SCOM_DW
 - Database Engine Services
 - Full-Text and Semantic Extractions for Search
 - Reporting Services - Native
- ☒ Shared Features
 - SQL Client Connectivity SDK

Select All

Unselect All

Description:

Language:

Edition:

Patch Level:

Architecture:

Service Pack:

Upgrade Status:

< Back

Next >

Cancel

Check Files In Use

The following services and applications are using files that Setup needs to complete the installation. To avoid a computer restart, stop the applications and services.

SQL Server 2016 update

License Terms

Select Features

Check Files In Use

Ready to update

Update Progress

Complete

Files in use check completed.

Stop check

Refresh check

Process	Type	Account	ProcessID
WmiPrvSE.exe	Application	NT AUTHORITY\SYSTEM	3936
Microsoft.ReportingSer...	Application	NT AUTHORITY\SYSTEM	6260
Microsoft.ReportingSer...	Application	NT AUTHORITY\SYSTEM	3840

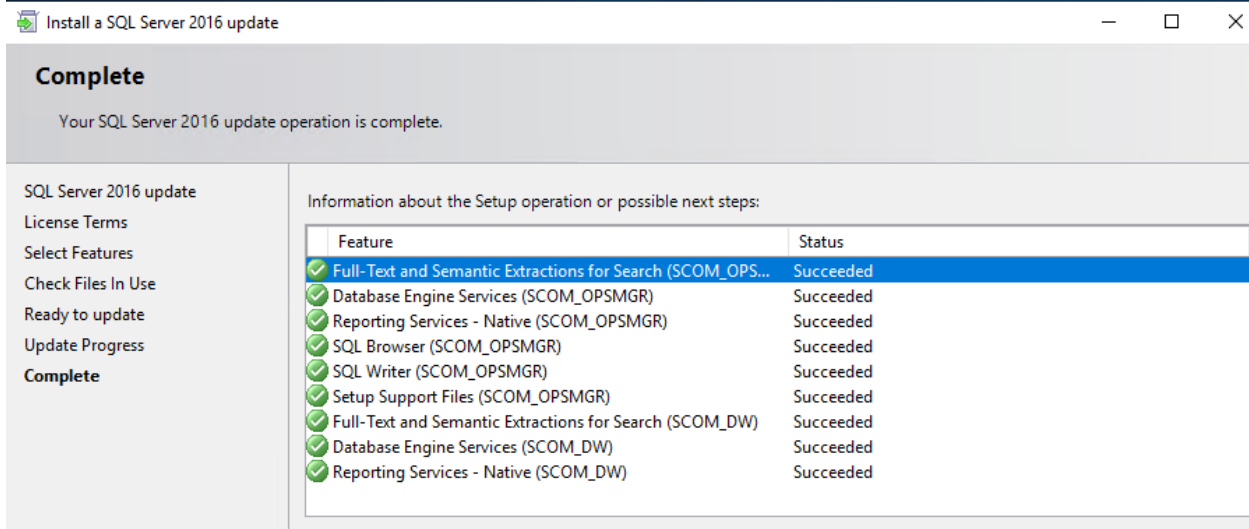
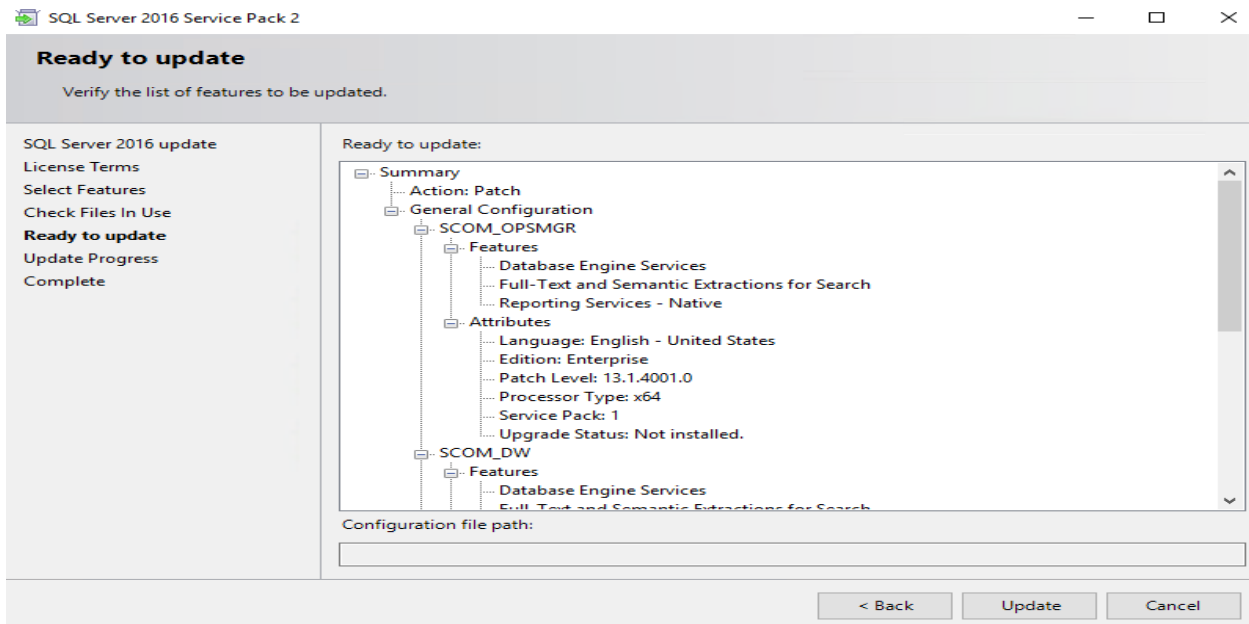
**YOU CAN IGNORE ABOVE ERROR,
JUST RESTART THE SERVER TO BE
SAFE.**

The 'WmiPrvSE.exe' process is not controlled by the update wizard. You have to manually stop this process to avoid a computer restart.

< Back

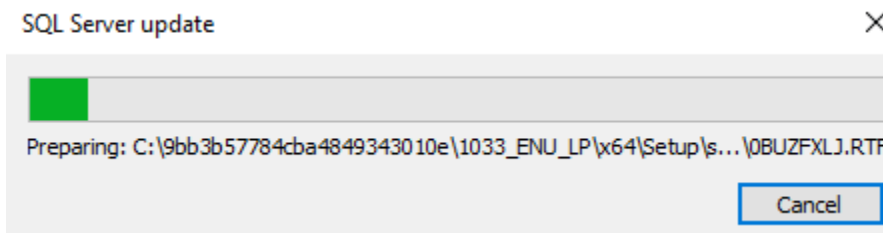
Next >

Cancel



Now we will install **SQL 2016 SP2 CU4**-KB4464106

OM > Downloads > SQL 2016 Entp >



License Terms

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SQL Server 2016 update

License Terms

Select Features

Check Files In Use

Ready to update

Update Progress

Complete

MICROSOFT SQL SERVER 2016 SERVICE PACK 2 (SP2)

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< Back

Next >

Cancel

Select Features

Specify the features to update.

SQL Server 2016 update

License Terms

Select Features

Check Files In Use

Ready to update

Update Progress

Complete

Instances:

- ☒ SCOM_OPSMGR
 - ... Database Engine Services
 - ... Full-Text and Semantic Extractions for Search
 - ... Reporting Services - Native
- ☒ SCOM_DW
 - ... Database Engine Services
 - ... Full-Text and Semantic Extractions for Search
 - ... Reporting Services - Native
- ☒ Shared Features
 - ... SQL Client Connectivity SDK

Select All

Unselect All

Description:

Language:

Edition:

Patch Level:

Architecture:

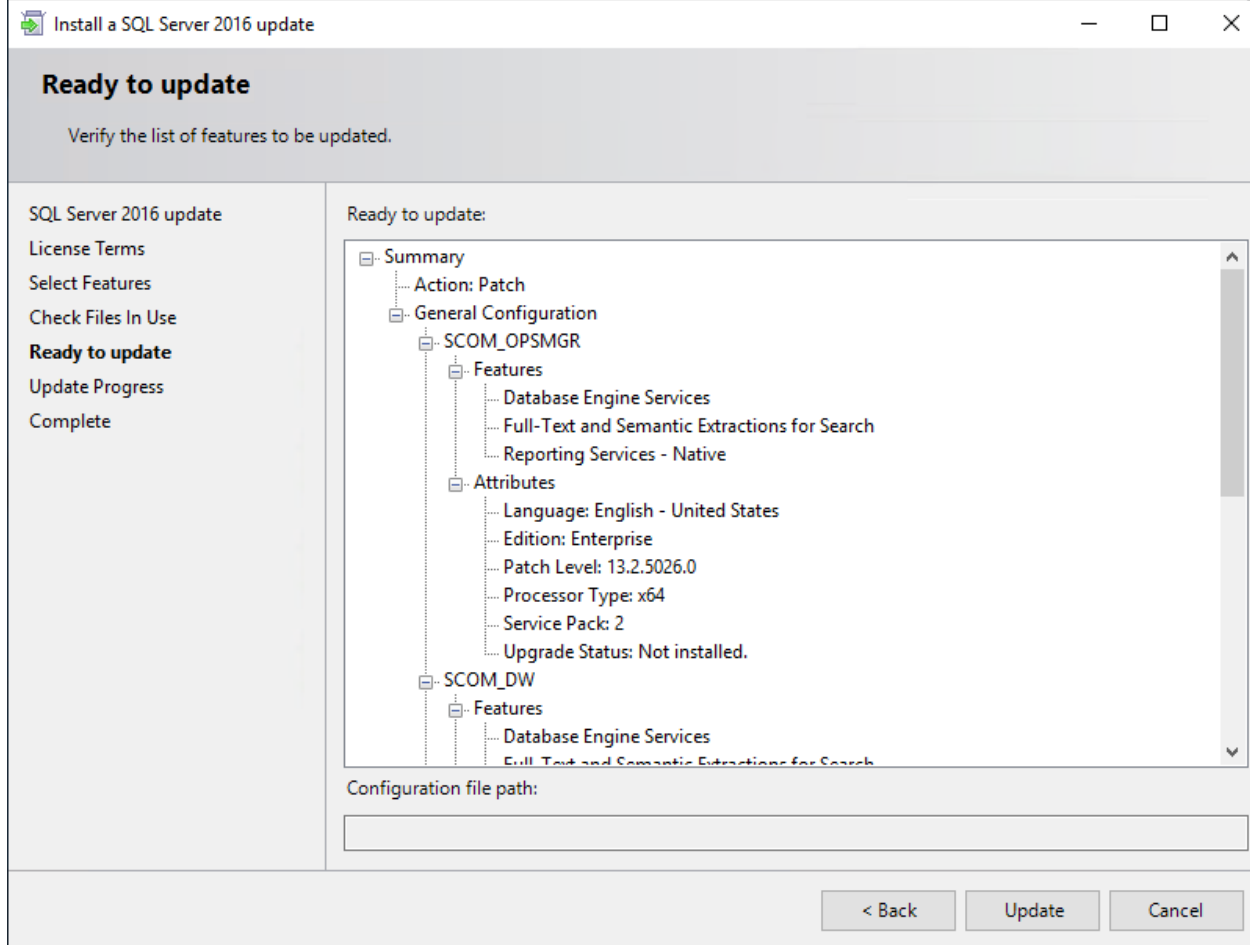
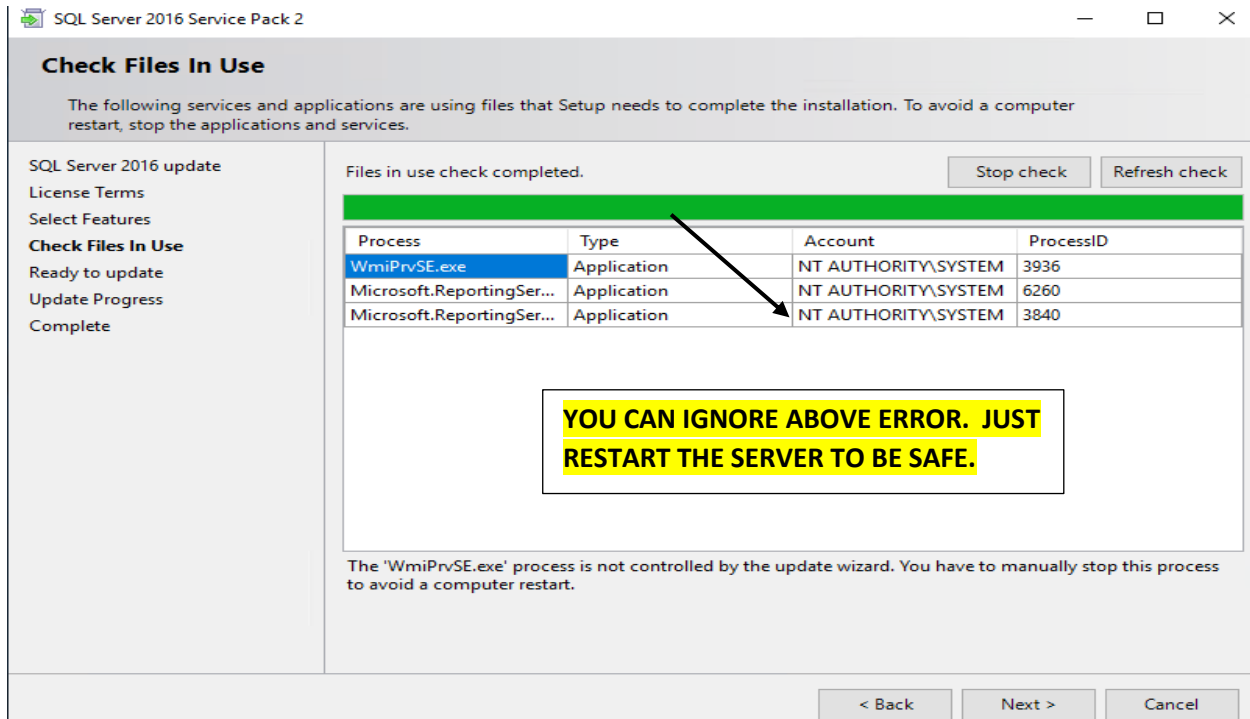
Service Pack:

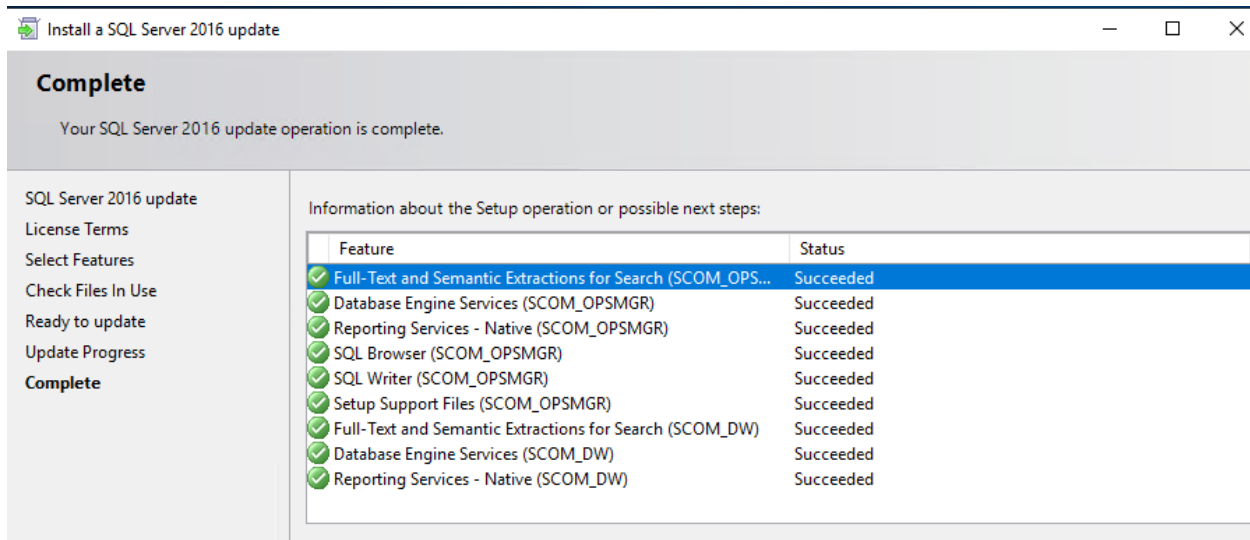
Upgrade Status:

< Back

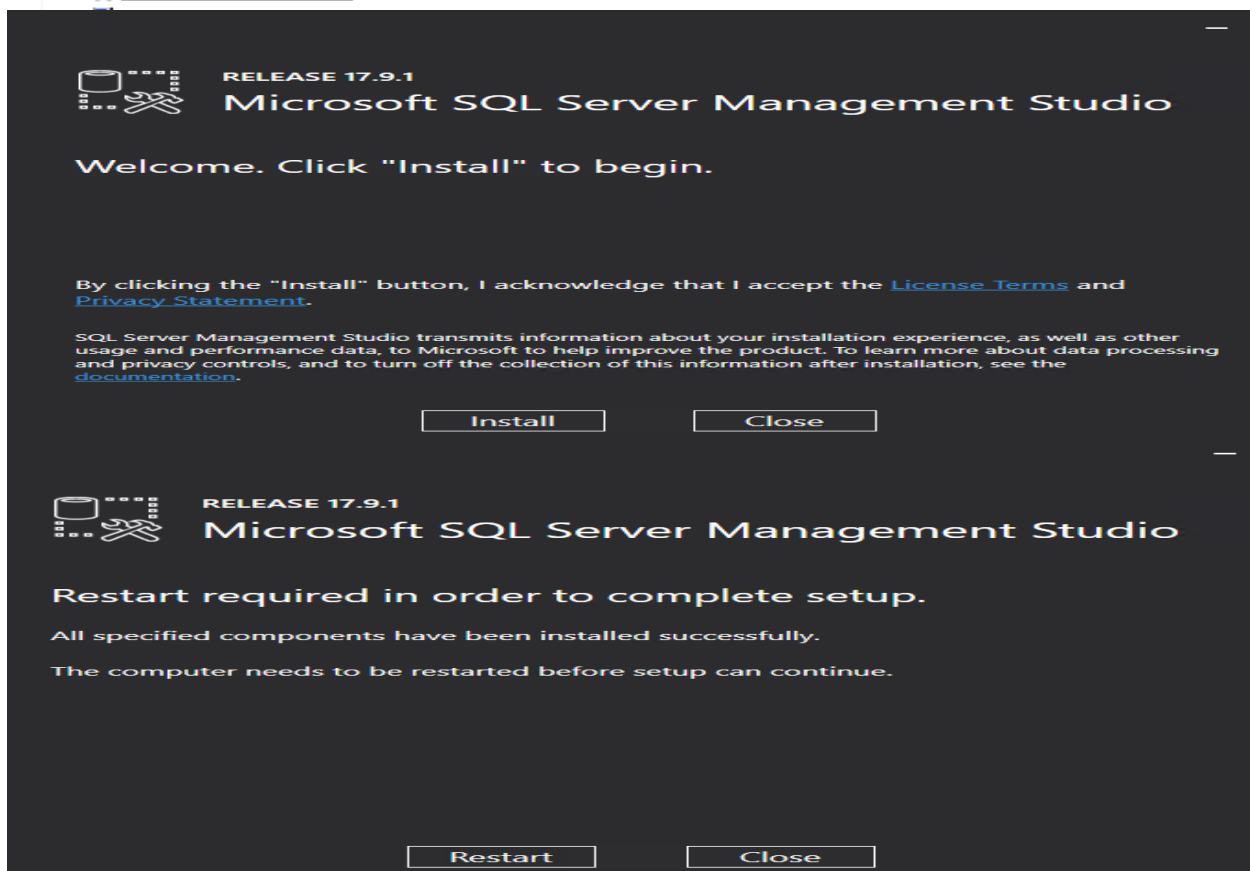
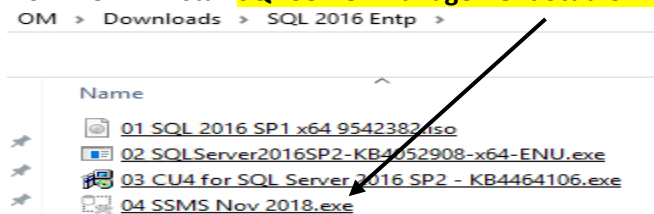
Next >

Cancel





Now we will install **SQL Server Management Studio Nov 2018** (SSMS) as detailed below



Configure Reporting Service on OpsMgr OM1807:

Open Reporting Services Configuration Manager from Programs

The image shows two screenshots of the SQL Server 2016 Reporting Services Configuration Manager. The top screenshot shows the 'Connect' dialog box, which prompts the user to specify a server name and select a report server instance. The bottom screenshot shows the main configuration window with the 'OM\SCOM_OPSMGR' server selected in the left-hand tree view.

SQL Server 2016 Reporting Services Configuration Manager

Reporting Services Configuration Connection

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

Server Name: Find

Report Server Instance: ▼

Connect Cancel

SQL Server 2016 Reporting Services Configuration Manager

Reporting Services Configuration Manager: OM\SCOM_OPSMGR

Report Server Status

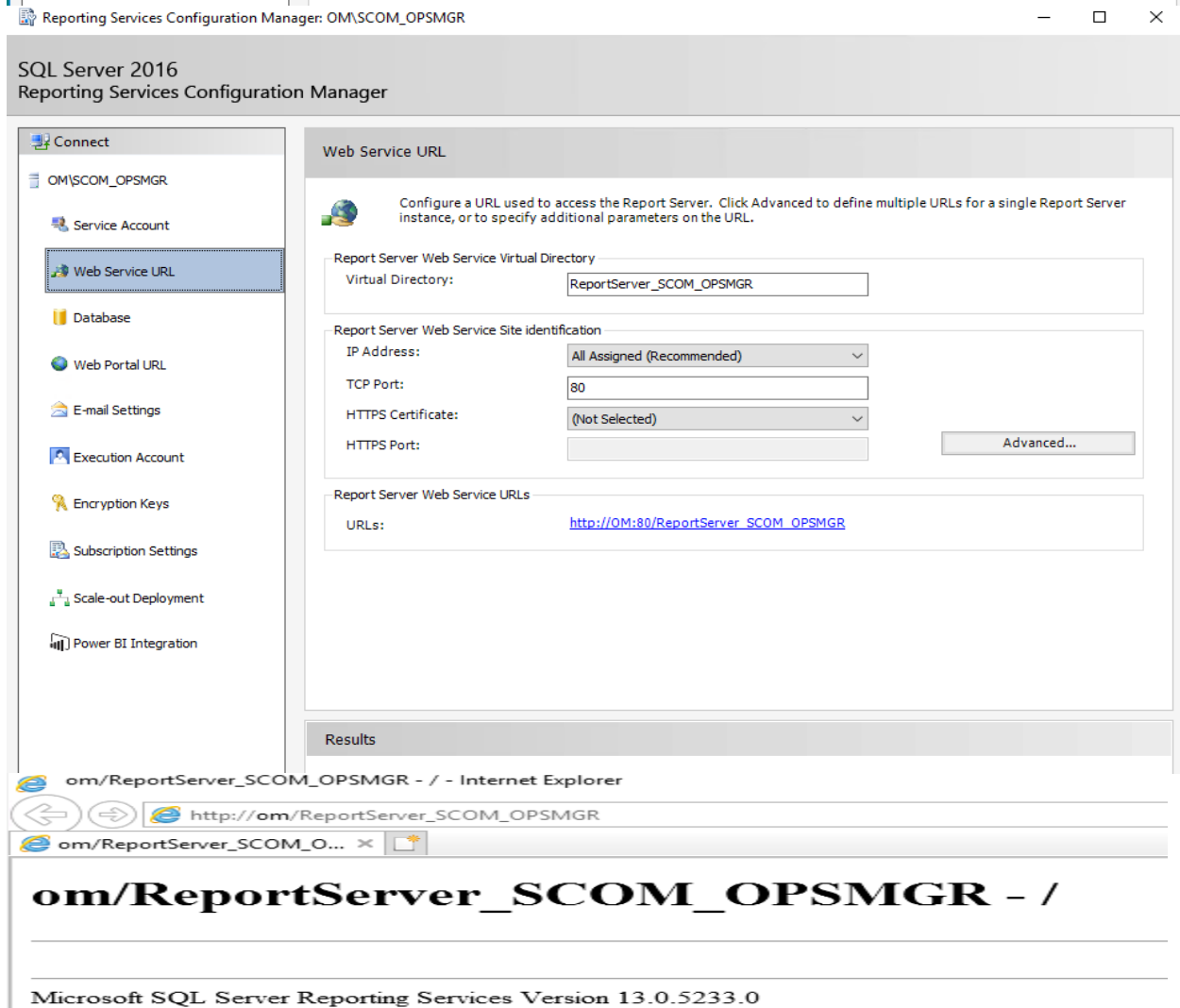
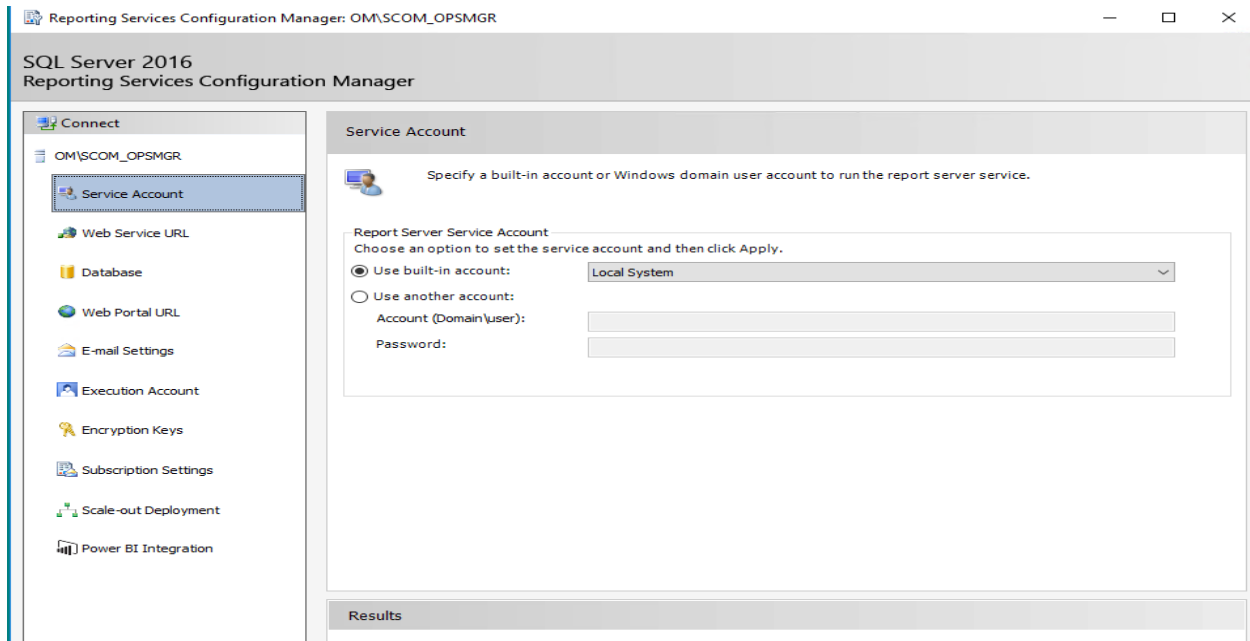
Use the Reporting Services Configuration Manager tool to define or modify settings for the Report Server and Report Manager. If you installed Reporting Services in files-only mode, you must configure the Web service URL, the database, and the Report Manager URL.

Current Report Server

SQL Server Instance:	SCOM_OPSMGR
Instance ID:	MSRS13.SCOM_OPSMGR
Edition:	ENTERPRISE EDITION
Product Version:	13.0.4001.0
Report Server Database Name:	ReportServer\$SCOM_OPSMGR
Report Server Mode:	Native
Report Service Status:	Started

Start Stop

Results



Reporting Services Configuration Manager: OM\SCOM_OPSMGR

SQL Server 2016 Reporting Services Configuration Manager

Connect

- OM\SCOM_OPSMGR
- Service Account
- Web Service URL
- Database**
- Web Portal URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Integration

Report Server Database

Reporting Services stores all report server content and application data in a database. Use this page to create or change the report server database or update database connection credentials.

Current Report Server Database

Click Change database to select a different database or create a new database in native or SharePoint integrated mode.

SQL Server Name:	OM\SCOM_OPSMGR
Database Name:	ReportServer\$SCOM_OPSMGR
Report Server Mode:	Native

Change Database

Current Report Server Database Credential

The following credentials are used by the report server to connect to the report server database. Use the options below to choose a different account or update a password.

Credential:	Service Account
Login:	LocalSystem
Password:	*****

Change Credentials

Results

Reporting Services Configuration Manager: OM\SCOM_OPSMGR

SQL Server 2016 Reporting Services Configuration Manager

Connect

- OM\SCOM_OPSMGR
- Service Account
- Web Service URL
- Database
- Web Portal URL**
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Integration

Web Portal URL

Configure a URL to access Web Portal. Click Advanced to define multiple URLs, or to specify additional parameters on the URL.

Web Portal Site Identification

Virtual Directory:	Reports_SCOM_OPSMGR
URLs:	http://OM:80/Reports_SCOM_OPSMGR

Advanced

Results

← → C om/Reports_SCOM_OPSMGR/browse/ ☆ ⋮

SQL Server Reporting Services

⚙️ ⬇️ ? Administrator

★ Favorites Browse + New ⬆️ Upload 📁 Manage folder 🔍 View 🔍 Search...

🏠 Home

Home

This folder is empty.

SQL Server 2016
Reporting Services Configuration Manager

Connect

OM\SCOM_OPSMGR

Service Account

Web Service URL

Database

Web Portal URL

E-mail Settings

Execution Account

Encryption Keys

Subscription Settings

Scale-out Deployment

Power BI Integration

E-mail Settings

To use report server e-mail, specify an existing SMTP server and an e-mail account that can send e-mail from that server.

SMTP Settings

To edit, change the fields and click the Apply button.

Sender Address:

Current SMTP Delivery Method:

SMTP Server:

Authentication:

Results

SQL Server 2016
Reporting Services Configuration Manager

Connect

OM\SCOM_OPSMGR

Service Account

Web Service URL

Database

Web Portal URL

E-mail Settings

Execution Account

Encryption Keys

Subscription Settings

Scale-out Deployment

Power BI Integration

Scale-out Deployment

Use this page to view information about a scale-out deployment. Report Servers that are joined to the scale-out can store encrypted data in a common Report Server database. Servers that are waiting to join the scale-out deployment must be added by a Report Server instance that is already part of the deployment.

Scale-out Deployment Status

SQL Server Name: OM\SCOM_OPSMGR

Database Name: ReportServer\$SCOM_OPSMGR

Report Server Mode: Native

Server	Instance	Status
OM	SCOM_OPSMGR	Joined

Add Server

Remove Server

Results

Now we can proceed with **OM 1801** install by running setup.exe

OM > Downloads > OM1801 > System Center Operations Manager >

Name	Date modified	Type	Size
acs	24-Jul-2018 1:52 PM	File folder	
agent	24-Jul-2018 1:52 PM	File folder	
gateway	24-Jul-2018 1:52 PM	File folder	
HelperObjects	24-Jul-2018 1:52 PM	File folder	
Licenses	24-Jul-2018 1:52 PM	File folder	
ManagementPacks	24-Jul-2018 1:53 PM	File folder	
msxml	24-Jul-2018 1:53 PM	File folder	
NanoAgent	24-Jul-2018 1:53 PM	File folder	
ProductDocumentation	24-Jul-2018 1:53 PM	File folder	
ReportModels	24-Jul-2018 1:53 PM	File folder	
SCXACS	24-Jul-2018 1:53 PM	File folder	
setup	24-Jul-2018 1:54 PM	File folder	
SupportTools	24-Jul-2018 1:54 PM	File folder	
autorun.inf	20-Nov-2017 10:0...	Setup Information	1 KB
Setup.exe	13-Jan-2018 6:23 ...	Application	1,637 KB

Operations Manager

System Center

Operations Manager

Version 1801

Install

☐ Download the latest updates to the setup program

Optional Installations

- [Local agent](#)
- [Audit collection services](#)
- [Gateway management server](#)
- [Audit Collection Services for UNIX/Linux](#)

Additional Resources

- [Release Notes](#)
- [Installation Guidance](#)
- [Supported Configurations](#)
- [Product Documentation](#)
- [Operations Manager Community](#)

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Exit

Operations Manager Setup

✕

Getting Started

Select features to install

If the operating system on this computer is not supported for one of the features, the feature cannot be installed.

Expand all

☒ Management server

☒ Operations console

☒ Web console

☒ Reporting server

[Supported Configurations](#)

Previous

Next

Cancel

Operations Manager Setup

✕

Getting Started

Select installation location

The recommended location for program files is displayed.

Location:

C:\Program Files\Microsoft System Center\Operations Manager

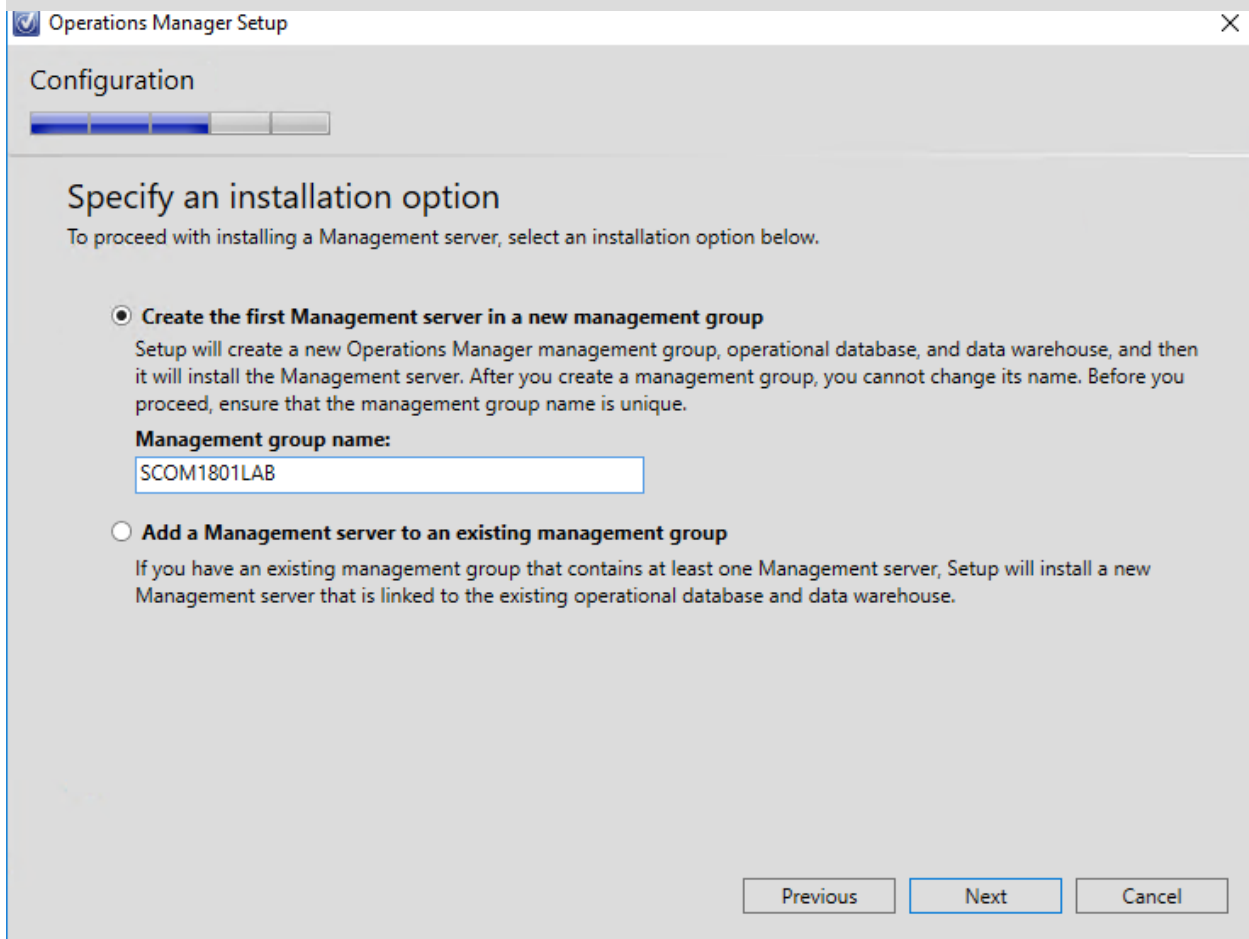
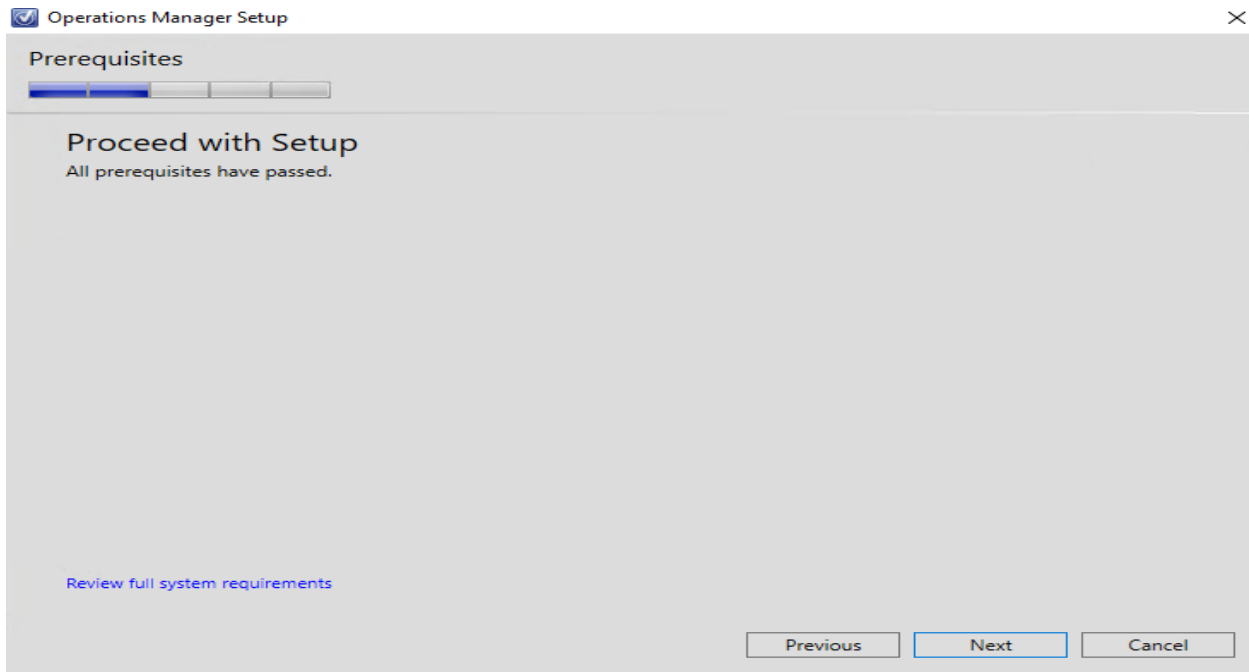
Browse...

Required space: 2389 MB Free space: 261.0GB

Previous

Next

Cancel



Operations Manager Setup

Configuration

Please read the license terms

MICROSOFT EVALUATION SOFTWARE LICENSE TERMS

MICROSOFT SYSTEM CENTER 1801 STANDARD

These license terms are an agreement between you and Microsoft Corporation (or one of its affiliates). They apply to the software named above and 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 HAVE THE RIGHTS BELOW. BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS.

1. INSTALLATION AND USE RIGHTS.

a. Software. The software includes

- "Server Software" which means any or all of the components of System Center 1801 Standard; and
- "Additional Software" which includes but is not limited to, tools and System Center packs (such as Management Packs, Process Packs, and Integration Packs), that may only be used with the Server Software.

☒ I have read, understood, and agree with the license terms

[Read our privacy statement](#)

Print...

Previous Next Cancel

Operations Manager Setup

Configuration

Configure the operational database

Before you click **Next**, verify the database name, the instance name, and the port. Ensure that you have sufficient permissions on the database instance.

Server name and instance name:	SQL Server port:
<input type="text" value="OM\SCOM_OPSMGR"/>	<input type="text" value="1433"/>
<i>Format: server name\instance name</i>	
Database name:	Database size (MB):
<input type="text" value="OperationsManager"/>	<input type="text" value="1000"/>
Data file folder:	<input type="text" value="C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\DATA\"/> Browse...
Log file folder:	<input type="text" value="C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_OPSMGR\MSSQL\DATA\"/> Browse...

Previous Next Cancel

Operations Manager Setup

Configuration

Configure the data warehouse database

Before you click **Next**, verify the database name, the instance name, and the port. Ensure that you have sufficient permissions on the database instance.

Server name and instance name: OM\SCOM_DW SQL Server port: 1433

Format: server name\instance name

☒ Create a new data warehouse database
☐ Use an existing data warehouse from a different management group

Database name: OperationsManagerDW Database size (MB): 1000

Data file folder: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\DATA\ Browse...

Log file folder: C:\Program Files\Microsoft SQL Server\MSSQL13.SCOM_DW\MSSQL\DATA\ Browse...

Previous Next Cancel

Operations Manager Setup

Configuration

SQL Server instance for reporting services

Select the SQL Server instance on which you want to host SQL Server Reporting Services (SSRS). This installation of a SQL Server Report Server will integrate the security of the selected SSRS instance with Operations Manager role-based security. Any reports that were previously installed on this SQL Server instance might become inaccessible. Only SQL server instances which meet the supported configuration are shown.

SQL Server instance: OM\SCOM_OPSMGR

Previous Next Cancel

Configuration



Specify a web site for use with the Web console

Select an IIS web site to be used for the Web console. Please select an existing web site from the available web sites on the local IIS server.

Web site:

Default Web Site

☐ Enable SSL

SSL is required for secure transfer of credential and authentication data between the browser and the web server. It is recommended that SSL is enabled to lower the risk of exposing sensitive data, such as logins, server names, IP addresses, etc. the Please refer to the deployment guide for more information about configuring SSL.

Previous

Next

Cancel

Configuration



Select an authentication mode for use with the Web console

Select an authentication mode. More information about these authentication mode and using SSL, refer to the Deployment Guide.

☒ Use Mixed Authentication (Forms Authentication)

Use Mixed Authentication for intranet scenarios. User will have to provide user name and password or use current Windows credentials to access the Web console.

☐ Use Network Authentication

Use Network Authentication for extranet scenarios. User will have to provide user name and password to access the Web console.

Previous

Next

Cancel

Operations Manager Setup

Configuration

Configure Operations Manager accounts

If you want to use a single account for all services, verify that the account has all the required rights. For more information, see the Operations Manager deployment documentation.

Account Name	Local System	Domain Account	Domain\User Name	Password
Management server action account	<input type="radio"/>	<input checked="" type="radio"/>	RAMLAN\OMAA
System Center Configuration service and System Center Data Access service	<input type="radio"/>	<input checked="" type="radio"/>	RAMLAN\OMDAS
Data Reader account	<input type="radio"/>	<input checked="" type="radio"/>	RAMLAN\OMREAD
Data Writer account	<input type="radio"/>	<input checked="" type="radio"/>	RAMLAN\OMWRITE

Add this user to local admin group

[Installation Guide](#)

Previous

Next

Cancel

Operations Manager Setup

Configuration

Diagnostic and Usage Data

If you use this Operations Manager console to connect to a Operations Manager management server that is sending Diagnostic and Usage Data to Microsoft, the Operations Manager console will also send this data.

Microsoft automatically collects usage and performance data over the internet ("Data"). Microsoft uses this Data to provide and improve the quality, security and integrity of Microsoft products and services. For example, we analyze performance and reliability, such as what features you use, how quickly the features respond, device performance, user interface interactions, and any problems you experience with the product. Data will also include information about the configuration of your software like the software version you are currently running, and the IP address.

Choice/Control:This feature is on by default. Administrators can turn off this feature anytime by changing the setting found in the Settings workspace of the Operations Manager console. This Notice replaces the Customer Experience Improvement Program (CEIP) description in the Operations Manager section of the Privacy Statement. All other sections of the Privacy Statement apply.

[Privacy Statement for System Center Operations Manager](#)

Previous

Next

Cancel

Configuration



Installation Summary

Review your selections for the features that you are installing. To continue, click **Install**. To change your selections, click **Previous**.

Installation location:
C:\Program Files\Microsoft System Center\Operations Manager

Management group name:
SCOM1801LAB

Operational database:
OperationsManager will be created on OM\SCOM_OPSMGR

Database size (MB):
1000

Data warehouse database:
OperationsManagerDW will be created on OM\SCOM_DW

Data warehouse database size (MB):
1000

Reporting server and instance:
OM\SCOM_OPSMGR

Previous

Install

Cancel

Installation Summary

Review your selections for the features that you are installing. To continue, click **Install**. To change your selections, click **Previous**.

Management server action account:
RAMLAN\OMAA

System Center Configuration service and System Center Data Access service account:
RAMLAN\OMDAS

Data Reader account:
RAMLAN\OMREAD

Data Writer account:
RAMLAN\OMWRITE

Web site:
Default Web Site

Authentication mode:
Mixed

Web address:
http://OM/OperationsManager

Web address:
http://OM/OperationsManager

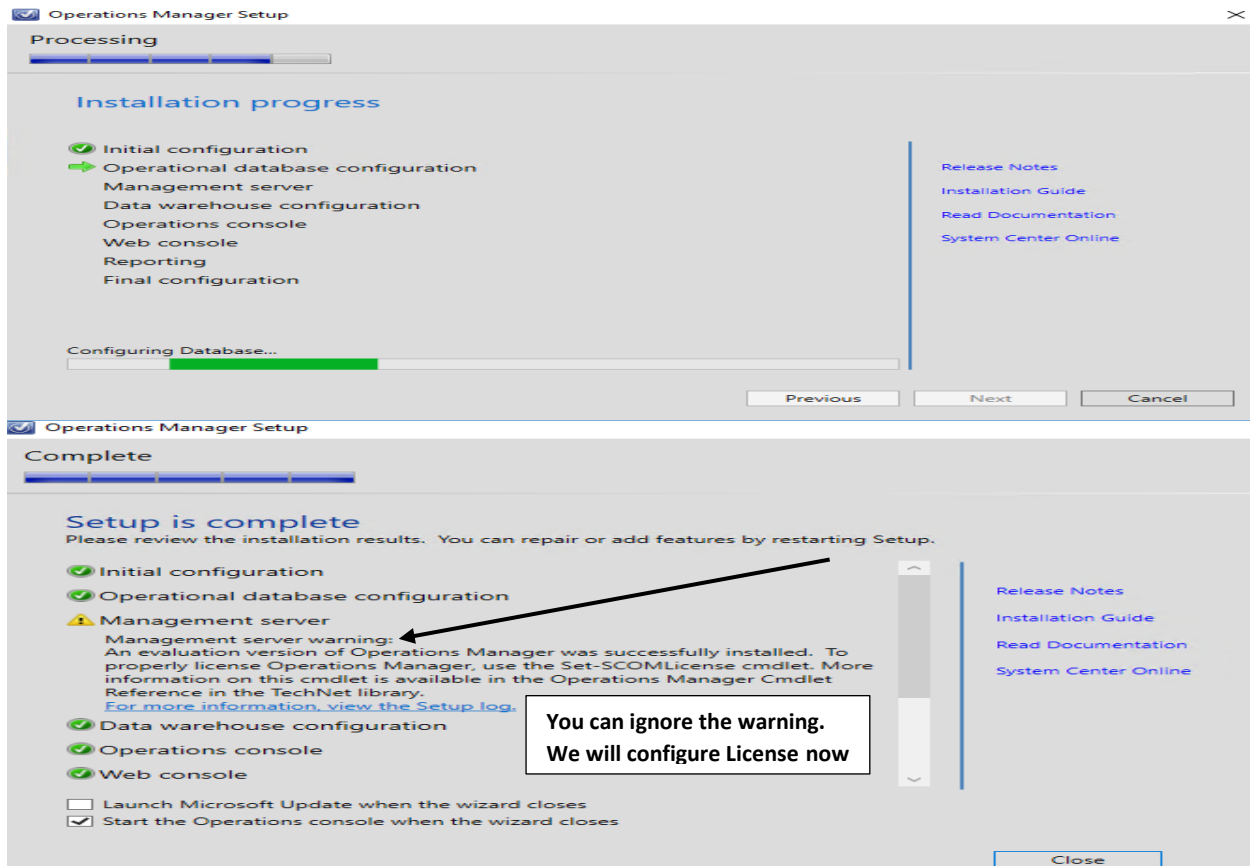
Application Diagnostics Web Address:
http://OM/AppDiagnostics

Application Advisor Web Address:
http://OM/AppAdvisor

Previous

Install

Cancel



Set SCOM License:

Open PowerShell as Administrator or Operations Manager Shell

Go to C:\Program Files\Microsoft System Center\Operations Manager\PowerShell\OperationsManager

Run these PowerShell scripts

Functions.ps1

Startup.ps1

After that run this command

Set-SCOMLicense -ProductId [redacted] -Confirm:\$false -Verbose

You will be asked to enter the credentials – use this **ramlan\administrator [redacted] 2009**

Once the command executes successfully – restart the server

```
PS C:\> Set-SCOMLicense -ProductId [redacted] -Confirm:$false -Verbose

cmdlet Set-SCOMLicense at command pipeline position 1
Supply values for the following parameters:
ManagementServer: OM.RAMLAN.CA
Credential
VERBOSE: Performing the operation "Set-SCOMLicense" on target [redacted]
Product has been licensed successfully. Please restart your data access service.
PS C:\> _
```

Open PowerShell as Administrator and run below command

Get-SCOMManagementGroup | ft skuforlicense, timeofexpiration -a

```
PS C:\Users\ADMINISTRATOR.RAMLAN> Get-SCOMManagementGroup | ft skuforlicense, timeofexpiration -a

SkuForLicense TimeOfExpiration
-----
Retail 31-Dec-9999 11:59:59 PM

PS C:\Users\ADMINISTRATOR.RAMLAN> _
```

Database File Size: OpsMgr and DW – Using SQL Management Studio

The screenshot displays two instances of the Microsoft SQL Server Management Studio (SSMS) interface, showing the 'Database Properties' dialog box for two different databases: 'OperationsManager' and 'OperationsManagerDW'.

Top Screenshot: OperationsManager Database Properties

- Object Explorer:** Shows the server 'OM\SCOM_OPSMGR' with various system databases, snapshots, and user databases. The 'OperationsManager' database is selected.
- Database Properties - OperationsManager:**
 - Select a page:** The 'Files' tab is selected.
 - Database name:** OperationsManager
 - Owner:** RAMLAN\Administrator
 - ☒ Use full-text indexing
 - Database files:**

Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize
MOM_DATA	ROWS...	PRIMARY	10000	None
MOM_LOG	LOG	Not Applicable	5000	None
 - Connection:** Server: OM\SCOM_OPSMGR; Connection: RAMLAN\Administrator
 - Progress:** Ready
 - Buttons:** Add, Remove, OK, Cancel

Bottom Screenshot: OperationsManagerDW Database Properties

- Object Explorer:** Shows the server 'OM\SCOM_DW' with various system databases, snapshots, and user databases. The 'OperationsManagerDW' database is selected.
- Database Properties - OperationsManagerDW:**
 - Select a page:** The 'Files' tab is selected.
 - Database name:** OperationsManagerDW
 - Owner:** RAMLAN\Administrator
 - ☒ Use full-text indexing
 - Database files:**

Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize
MOM_DATA	ROWS...	PRIMARY	10000	By 10 MB, Unlimited
MOM_LOG	LOG	Not Applicable	5000	By 10 MB, Limited to 209715...
 - Connection:** Server: OM\SCOM_DW; Connection: RAMLAN\Administrator
 - Progress:** Ready
 - Buttons:** Add, Remove, OK, Cancel

Optimize Management Server Registry:

Add these registry keys updates to the Management Server by running from PowerShell as Administrator

```
reg add "HKLM\SYSTEM\CurrentControlSet\services\HealthService\Parameters" /v "State Queue Items" /t REG_DWORD /d 20480 /f
```

```
reg add "HKLM\SYSTEM\CurrentControlSet\services\HealthService\Parameters" /v "Persistence Checkpoint Depth Maximum" /t REG_DWORD /d 104857600 /f
```

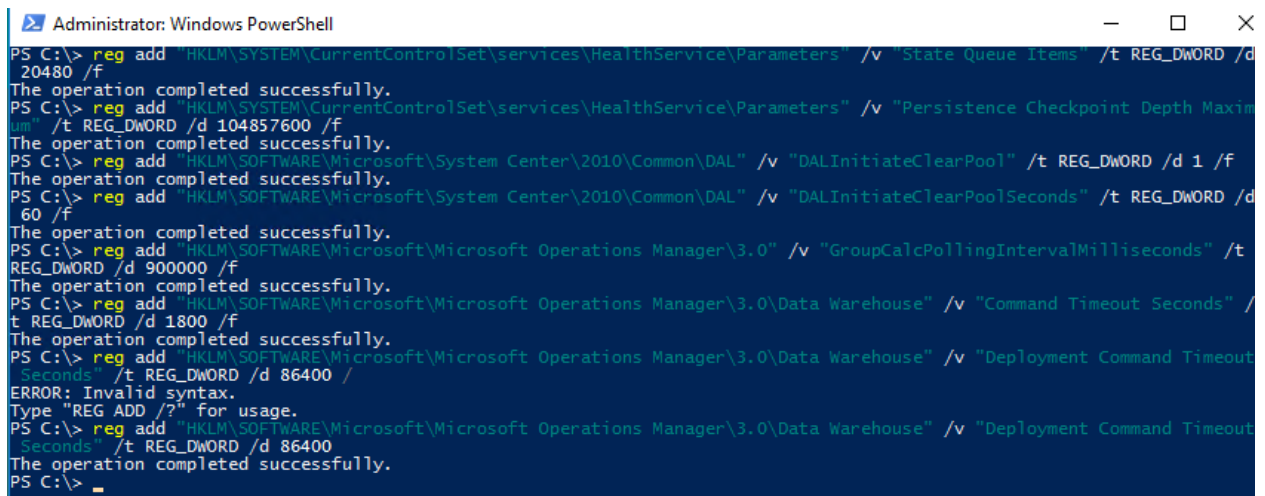
```
reg add "HKLM\SOFTWARE\Microsoft\System Center\2010\Common\DAL" /v "DALInitiateClearPool" /t REG_DWORD /d 1 /f
```

```
reg add "HKLM\SOFTWARE\Microsoft\System Center\2010\Common\DAL" /v "DALInitiateClearPoolSeconds" /t REG_DWORD /d 60 /f
```

```
reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0" /v "GroupCalcPollingIntervalMilliseconds" /t REG_DWORD /d 900000 /f
```

```
reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Data Warehouse" /v "Command Timeout Seconds" /t REG_DWORD /d 1800 /f
```

```
reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Data Warehouse" /v "Deployment Command Timeout Seconds" /t REG_DWORD /d 86400
```

A screenshot of a Windows PowerShell command prompt window titled "Administrator: Windows PowerShell". The window has a blue background and white text. It shows a series of registry commands being executed, each followed by the message "The operation completed successfully." The commands are: 1. reg add "HKLM\SYSTEM\CurrentControlSet\services\HealthService\Parameters" /v "State Queue Items" /t REG_DWORD /d 20480 /f 2. reg add "HKLM\SYSTEM\CurrentControlSet\services\HealthService\Parameters" /v "Persistence Checkpoint Depth Maximum" /t REG_DWORD /d 104857600 /f 3. reg add "HKLM\SOFTWARE\Microsoft\System Center\2010\Common\DAL" /v "DALInitiateClearPool" /t REG_DWORD /d 1 /f 4. reg add "HKLM\SOFTWARE\Microsoft\System Center\2010\Common\DAL" /v "DALInitiateClearPoolSeconds" /t REG_DWORD /d 60 /f 5. reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0" /v "GroupCalcPollingIntervalMilliseconds" /t REG_DWORD /d 900000 /f 6. reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Data Warehouse" /v "Command Timeout Seconds" /t REG_DWORD /d 1800 /f 7. reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Data Warehouse" /v "Deployment Command Timeout Seconds" /t REG_DWORD /d 86400 /f The last command has a trailing slash, which causes an "ERROR: Invalid syntax." message. The user then corrects it by re-entering the command without the trailing slash, which is successful. The prompt ends with "PS C:\> _".

```
Administrator: Windows PowerShell
PS C:\> reg add "HKLM\SYSTEM\CurrentControlSet\services\HealthService\Parameters" /v "State Queue Items" /t REG_DWORD /d 20480 /f
The operation completed successfully.
PS C:\> reg add "HKLM\SYSTEM\CurrentControlSet\services\HealthService\Parameters" /v "Persistence Checkpoint Depth Maximum" /t REG_DWORD /d 104857600 /f
The operation completed successfully.
PS C:\> reg add "HKLM\SOFTWARE\Microsoft\System Center\2010\Common\DAL" /v "DALInitiateClearPool" /t REG_DWORD /d 1 /f
The operation completed successfully.
PS C:\> reg add "HKLM\SOFTWARE\Microsoft\System Center\2010\Common\DAL" /v "DALInitiateClearPoolSeconds" /t REG_DWORD /d 60 /f
The operation completed successfully.
PS C:\> reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0" /v "GroupCalcPollingIntervalMilliseconds" /t REG_DWORD /d 900000 /f
The operation completed successfully.
PS C:\> reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Data Warehouse" /v "Command Timeout Seconds" /t REG_DWORD /d 1800 /f
The operation completed successfully.
PS C:\> reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Data Warehouse" /v "Deployment Command Timeout Seconds" /t REG_DWORD /d 86400 /f
ERROR: Invalid syntax.
Type "REG ADD /?" for usage.
PS C:\> reg add "HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Data Warehouse" /v "Deployment Command Timeout Seconds" /t REG_DWORD /d 86400
The operation completed successfully.
PS C:\> _
```


Enable Proxy Agent as default setting:

Open PowerShell as Administrator and run this command
add-psnapin "Microsoft.EnterpriseManagement.OperationsManager.Client";
new-managementGroupConnection -ConnectionString:localhost;
set-location "OperationsManagerMonitoring:";
Set-DefaultSetting -Name HealthService\ProxyingEnabled -Value True

```
Administrator: Windows PowerShell
PS C:\Users\ADMINISTRATOR.RAMLAN> add-psnapin "Microsoft.EnterpriseManagement.OperationsManager.Client";
PS C:\Users\ADMINISTRATOR.RAMLAN> new-managementGroupConnection -ConnectionString:localhost;

PathName          :
ManagementGroup    : SCOM1801LAB
ManagementServerName : localhost
Drives             :

PS C:\Users\ADMINISTRATOR.RAMLAN> set-location "OperationsManagerMonitoring:";
PS Microsoft.EnterpriseManagement.OperationsManager.Client\OperationsManagerMonitoring::> Set-DefaultSetting -Name HealthService\ProxyingEnabled -Value True

Name : HealthService\ProxyingEnabled
Value : True

PS Microsoft.EnterpriseManagement.OperationsManager.Client\OperationsManagerMonitoring::>
```

In order to inspect this setting, you can run:

Get-DefaultSetting

```
Administrator: Windows PowerShell
PS Microsoft.EnterpriseManagement.OperationsManager.Client\OperationsManagerMonitoring::> add-psnapin "Microsoft.Enterp
Microsoft.EnterpriseManagement.OperationsManager.Client";
PS Microsoft.EnterpriseManagement.OperationsManager.Client\OperationsManagerMonitoring::> new-managementGroupConnection
-ConnectionString:localhost;

PathName          :
ManagementGroup    : SCOM1801LAB
ManagementServerName : localhost
Drives             :

PS Microsoft.EnterpriseManagement.OperationsManager.Client\OperationsManagerMonitoring::> set-location "OperationsManag
Microsoft.EnterpriseManagement.OperationsManager.Client\OperationsManagerMonitoring::> Get-DefaultSetting

Name : HealthService\ProxyingEnabled
Value : True

Name : Agent\Heartbeats\Interval
Value : 60

Name : ManagementServer\AutoApproveManuallyInstalledAgents
Value : False

Name : ManagementServer\RejectManuallyInstalledAgents
Value : True

Name : ManagementServer\MissingHeartbeatThreshold
Value : 3

Name : ManagementServer\ProxyAddress
Value :

Name : ManagementServer\ProxyPort
Value : 0

Name : ManagementServer\UseProxyServer
Value : False

Name : NotificationServer\WebAddresses\WebConsole
Value : http://OM/OperationsManager

Name : ManagementGroup\CustomerExperienceImprovementProgramEnabled
Value : False

Name : ManagementGroup\SendOperationalDataReports
Value : False

Name : ManagementGroup\ErrorReporting\SendErrorReports
Value : False
```

Event ID: 6002 & Event ID: 21029:

Event Viewer

File Action View Help

Event Viewer (Local)

- Custom Views
- Server Roles
- Administrative Events
- Windows Logs
 - Application
 - Security
 - Setup
 - System
 - Forwarded Events
- Applications and Services Logs
 - Hardware Events
 - Internet Explorer
 - Key Management Service
 - Microsoft
 - AppV
 - User Experience Virtualization
 - Windows
 - Microsoft Office Alerts
 - OpenSSH
 - Operations Manager
 - Windows PowerShell
 - Subscriptions

Operations Manager Number of events: 19

Level	Date and Time	Source	Event ID	Task Category
Information	09-Feb-2019 6:45:02 PM	Health Service Script	6002	None
Information	09-Feb-2019 6:43:09 PM	OpsMgr Connector	21029	None
Information	09-Feb-2019 6:43:00 PM	OpsMgr Connector	21024	None
Information	09-Feb-2019 6:42:42 PM	HealthService	7026	Health Service
Information	09-Feb-2019 6:42:02 PM	HealthService Modules	10111	None
Information	09-Feb-2019 6:39:58 PM	OpsMgr SDK Service	26328	None
Information	09-Feb-2019 6:39:58 PM	HealthService	1109	Health Service
Information	09-Feb-2019 6:39:58 PM	HealthService	1210	Health Service
Information	09-Feb-2019 6:39:57 PM	OpsMgr SDK Service	26328	None
Information	09-Feb-2019 6:39:52 PM	HealthService	7028	Health Service
Information	09-Feb-2019 6:39:52 PM	HealthService	7024	Health Service
Information	09-Feb-2019 6:39:52 PM	HealthService	7025	Health Service
Information	09-Feb-2019 6:39:52 PM	HealthService	7023	Health Service
Information	09-Feb-2019 6:39:52 PM	HealthService	7026	Health Service
Information	09-Feb-2019 6:39:52 PM	OpsMgr Management Configuration	29121	None
Information	09-Feb-2019 6:39:52 PM	HealthService	7026	Health Service
Information	09-Feb-2019 6:39:51 PM	OpsMgr Connector	21025	None
Information	09-Feb-2019 6:39:51 PM	OpsMgr Management Configuration	29194	None
Information	09-Feb-2019 6:39:51 PM	OpsMgr Connector	21024	None

If you see above events in event viewer, then add these SCOM action account to Local Performance Users and Performance Monitor Users group.

Name	Type	Description
OMAA	User	OM Service Action Account
OMDAS	User	OM Config & Data Access Account
OMREAD	User	OM Datawarehouse Reader Account
OMWRITE	User	OM Datawarehouse Write Account
SQLSVC	User	SQL Service Account

Performance Log Users Properties

General

Performance Log Users

Description: Members of this group may schedule logging of performance counters, enable trace providers, and

Members:

- Administrator
- RAMLAN\Administrator
- RAMLAN\OMAA
- RAMLAN\OMAdmins
- RAMLAN\OMDAS
- RAMLAN\OMREAD
- RAMLAN\OMWRITE
- RAMLAN\ram
- RAMLAN\SQLSVC

Add... Remove

Changes to a user's group membership are not effective until the next time the user logs on.

OK Cancel Apply Help

Performance Monitor Users Properties

General

Performance Monitor Users

Description: Members of this group can access performance counter data locally and remotely

Members:

- Administrator
- NT SERVICE\MSSQL\$SCOM_DW (S-1-5-80-3958102234-216952)
- NT SERVICE\MSSQL\$SCOM_OPSMGR (S-1-5-80-1361254104-3)
- NT SERVICE\SQLAgent\$SCOM_DW (S-1-5-80-3239114926-2715)
- NT SERVICE\SQLAgent\$SCOM_OPSMGR (S-1-5-80-3199397952)
- RAMLAN\Administrator
- RAMLAN\OMAA
- RAMLAN\OMAdmins
- RAMLAN\OMDAS

Add... Remove

Changes to a user's group membership are not effective until the next time the user logs on.

OK Cancel Apply Help

Operations Manager Console: Discovery Process

After the install when you open the console you will see the following. We have to take care of these one by one.

SCOM1801LAB - Operations Manager

File Edit View Go Tasks Tools Help

Search Scope Find Tasks

Monitoring

- Monitoring
 - Active Alerts
 - Discovered Inventory
 - Distributed Applications
 - Maintenance Schedules
 - Task Status
 - UNIX/Linux Computers
 - Windows Computers
 - Agentless Exception Monitoring
 - Application Monitoring
 - Data Warehouse
 - Microsoft Audit Collection Services
 - Microsoft Windows Client
 - Microsoft Windows Server
 - Network Monitoring
 - Operations Management Suite
 - Operations Manager
 - Synthetic Transaction
 - UNIX/Linux Computers
 - Web Application Transaction Monitoring
 - Windows Service And Process Monitoring

Show or Hide Views...

New View

Monitoring

Authoring

Reporting

Administration

My Workspace

Monitoring Overview

Required Configuration Tasks:

In order for Operations Manager to manage and monitor your network you must complete the following steps:

- Required: Configure computers and devices to manage
- Required: Import management packs
- Required: Enable Notification Channels

State and Alerts:

Computer Health:	Go to Computers
Critical:	0
Warning:	0
Healthy:	1
Maintenance Mode:	0
Unknown Status:	0

Distributed Applications:

Go to Distributed Applications	
Critical:	0
Warning:	0
Healthy:	1
Maintenance Mode:	0
Unknown Status:	0

Actions:

- View all Active Alerts
- View Computer State
- View Distributed Application State
- View Management Group Health

Key Concepts:

- The Monitoring Workspace
- Standard Views
- Health Explorer
- Properties of Alerts, Rules, and Monitors
- Monitoring Scenarios

Learn About:

- Finding Data and Objects in the Operations Console
- Using Views
- Managing Alerts
- Using Maintenance Mode
- Running Tasks
- Tuning Monitoring by Using Targeting and Overrides

Online Resources:

- Microsoft System Center Online
- Microsoft System Center Community
- Report an Issue or Suggestion to Microsoft

So we will complete discovery of configuring computers and devices to manage first.

Computer and Device Management Wizard

What would you like to manage?

Discovery Type

Auto or Advanced?

Discovery Method

Administrator Account

Select Objects to Manage

Summary

Choose the type of computers or devices to discover and manage.

- Windows computers**
Discover Windows computers in your Active Directory environment and install agents on the ones you want to manage.
- UNIX/Linux computers**
This enables you to discover UNIX and Linux computers in your environment and install agents on the ones you want to manage.
- Network devices**
Discover and monitor network devices using Simple Network Management Protocol (SNMP).

Select a discovery type and click Next to continue.

< Previous Next > Discover Cancel



Auto or Advanced?

Discovery Type

Auto or Advanced?

Discovery Method

Administrator Account

Select Objects to Manage

Summary

Choose automatic or advanced discovery

☐ Automatic computer discovery

Scans the "RAMLAN.CA" domain for all Windows-based computers.

☒ Advanced discovery

Allows you to specify advanced discovery options and settings.

Computer and Device Classes:

Servers Only

Note: This setting applies only when scanning Active Directory. You can configure how these objects will be discovered, on the next screen(s).

Management Server

OM.RAMLAN.CA

☒ Verify discovered computers can be contacted

< Previous

Next >

Discover

Cancel



Discovery Method

Discovery Type

Auto or Advanced?

Discovery Method

Administrator Account

Select Objects to Manage

Summary

How do you want to discover computers?

☒ Scan Active Directory

Select objects from Active Directory to scan, or create an advanced query.

(&(sAMAccountType=805306369))

Configure...

Domain:

RAMLAN

☐ Browse for, or type-in computer names

Browse Active Directory or type computer names into the list below. Separate each computer name by a semi-colon, comma or a new line:

Browse...

For example, server1.contoso.com or server1

< Previous

Next >

Discover

Cancel

Computer and Device Management Wizard

Administrator Account

Discovery Type

Auto or Advanced?

Discovery Method

Administrator Account

Select Objects to Manage

Summary

Administrator Account

Select a user account with Administrator rights on the computers you will scan. These credentials will also be used when installing the agents on managed computers.

☐ Use selected Management Server Action Account

☒ Other user account

User name:

administrator

Password:

••••••••

Domain:

RAMLAN

☐ This is a local computer account, not a domain account

Note: When selecting the local account option, the agent installation task will be run as the local account, while the Discovery task will be run using the Management Server Action Account.

< Previous

Next >

Discover

Cancel

Computer and Device Management Wizard

Summary

Discovery Type

Auto or Advanced?

Discovery Method

Administrator Account

Select Objects to Manage

Summary

Summary

Agents to be installed: 10

Agent installation directory:

%ProgramFiles%\Microsoft Monitoring Agent

Agent Action Account

Specify credentials for the agent to use when performing actions.

☐ Local System

☒ Other

User name:

administrator

Password:

••••••••

Domain:

RAMLAN

To close the wizard and deploy the agents, click Finish.

< Previous

Next >

Finish

Cancel

Agent Management Task Status

Running tasks ...

Task Target	Status
✓ CB.RAMLAN.CA	Success
✓ DC.RAMLAN.CA	Success
✓ EX2019.RAMLAN.CA	Success
▶ OFFICESERVER.RAMLAN.CA	Started
✓ SFB.RAMLAN.CA	Success

Task Output

The task completed successfully.

Agent Management Task Status

All tasks completed.

Task Target	Status
✓ CB.RAMLAN.CA	Success
✓ DC.RAMLAN.CA	Success
✓ EX2019.RAMLAN.CA	Success
✓ OFFICESERVER.RAMLAN.CA	Success
✓ SFB.RAMLAN.CA	Success

Task Output

The task completed successfully.

Enable Notification Channel:

SCOM2016LAB - Operations Manager

File Edit View Go Tasks Tools Help

Search Scope Find Tasks

Monitoring

- Monitoring
 - Active Alerts
 - Discovered Inventory
 - Distributed Applications
 - Maintenance Schedules
 - Task Status
 - UNIX/Linux Computers
 - Windows Computers
 - Agentless Exception Monitoring
 - Application Monitoring
 - Data Warehouse
 - Microsoft Audit Collection Services
 - Microsoft Exchange Server 2013
 - Microsoft Windows Client
 - Microsoft Windows Server
 - Network Monitoring
 - Operations Management Suite
 - Operations Manager
 - Synthetic Transaction
 - Web Application Transaction Monitoring
 - Windows Service And Process Monitoring

Show or Hide Views...

New View ▶

- Monitoring
- Authoring
- Reporting
- Administration
- My Workspace

Monitoring Overview

Required Configuration Tasks:

In order for Operations Manager to manage and monitor your network you must complete the following steps:

- Required: Import management packs
- Required: Enable Notification Channels**

State and Alerts:

Computer Health:	Go to Computers
Critical: 1	1
Warning: 0	0
Healthy: 15	15
Maintenance Mode: 0	0
Unknown Status: 0	0

Distributed Applications:	Go to Distributed Applications
Critical: 0	0
Warning: 1	1
Healthy: 0	0
Maintenance Mode: 0	0
Unknown Status: 0	0

Actions:

- View all Active Alerts
- View Computer State
- View Distributed Application State
- View Management Group Health

Key Concepts:

- The Monitoring Workspace
- Standard Views
- Health Explorer
- Properties of Alerts, Rules, and Monitors
- Monitoring Scenarios

Learn About:

- Finding Data and Objects in the Operations Console
- Using Views
- Managing Alerts
- Using Maintenance Mode
- Running Tasks
- Tuning Monitoring by Using Targeting and Overrides

Online Resources:

- Microsoft System Center Online
- Microsoft System Center Community
- Report an Issue or Suggestion to Microsoft


Required: Enable Notification Channels

E-Mail (SMTP)...

Instant Message (IM)...

Text Message (SMS)...

E-Mail Notification Channel



E-Mail Notification Channel

Description

Settings

Format

Provide a name and description for this channel that will make it easy to identify later.

Channel name:

Default SMTP Channel

Description (optional):

SMTP E-Mail

< Previous

Next >

Finish

Cancel

Add SMTP Server

SMTP server (FQDN):

EX2019.RAMLAN.CA

Port number:

25


Authentication method:

Anonymous

OK

Cancel

E-Mail Notification Channel



E-Mail Notification Channel

Description

Settings

Format

SMTP servers:

SMTP Server (FQDN)

Port #

Authentication

Fallover Order

EX2019.RAMLAN.CA

25

Anonymous

Primary

Return address:

ram@ramlan.ca

How long to wait before automatically retrying the connection?

Retry interval (min):

5

< Previous

Next >

Finish

Cancel

E-Mail Notification Channel

Description
Settings
Format

Default e-mail notification format:

E-mail subject:

☐ Generate subject line with no encoding (use if notification e-mails contain malformed subject lines)

E-mail message:

Importance:
Normal ▼


Encoding:
Unicode (UTF-8) ▼

< Previous Next > **Finish** Cancel

E-Mail Notification Channel

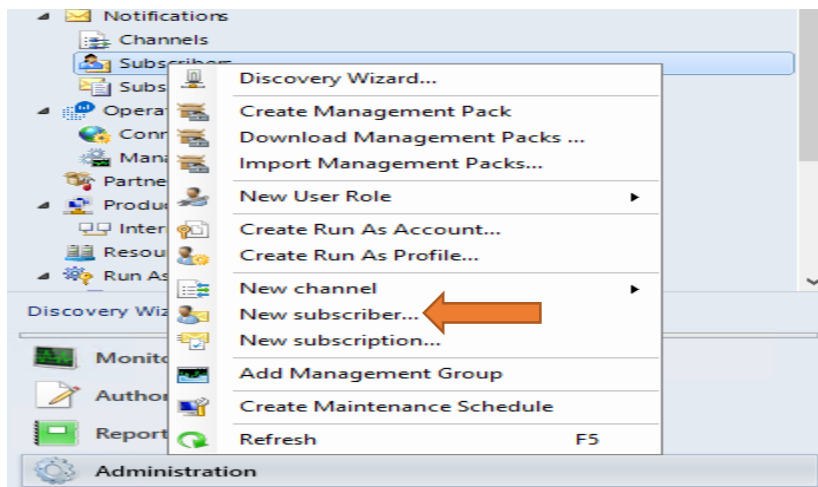
Description
Settings
Format

Saving notification channel

 Channel saved successfully.

< Previous Next > Finish **Close**

Next, we will configure subscriber



Notification Subscriber Wizard

Notification Subscriber Wizard

Description

Schedule

Addresses

Provide a name for this subscriber that will make it easy to identify later.

Subscriber Name:

RAMLAN\Administrator

...

< Previous

Next >

Finish

Cancel

Notification Subscriber Wizard

Schedule Notifications

Description

Schedule

Addresses

Set the master schedule for notifying the person. Notification schedules can be further customized for each subscriber address.

☒ Always send notifications

☐ Notify only during the specified times:

Schedules to send:

+ Add... Edit... X Remove...

Date Range	Time Range	Weekdays	
------------	------------	----------	--

< Previous

Next >

Finish

Cancel

Subscriber Address

Schedule Notifications

General

Channel

Schedule

Set the schedule for receiving notifications at this subscriber address.

☒ Always send notifications

☐ Only send notification during the specified times:

Scheduled periods:

+ Add Edit X Remove

Date Range	Time Range	Weekdays	
------------	------------	----------	--

< Previous

Next >

Finish

Cancel

Subscriber Address

Provide the Channel and Delivery Address

General

Channel

Schedule

Select the notification channel and enter your address for that channel

Channel Type

E-Mail (SMTP)

Command Channel

Delivery address for the selected channel:

ram@RAMLAN.CA

< Previous

Next >

Finish

Cancel

Notification Subscriber Wizard

Subscriber Addresses

Description

Schedule

Addresses

Associating specific addresses with notification schedules allows subscribers to be contacted when and where they are available. For example, a subscriber could be notified using E-mail between 9 AM and 5 PM, then notified using text messaging outside of those hours.

Subscriber address:

+ Add...

Edit...

X Remove

Name	Channel Type	Delivery Address
Default Subscriber	E-Mail (SMTP)	ram@RAMLAN.CA

< Previous

Next >

Finish

Cancel

Notification Subscriber Wizard

Notification Subscriber Wizard

Description

Schedule

Addresses

Saving notification subscriber...

Subscriber saved successfully.

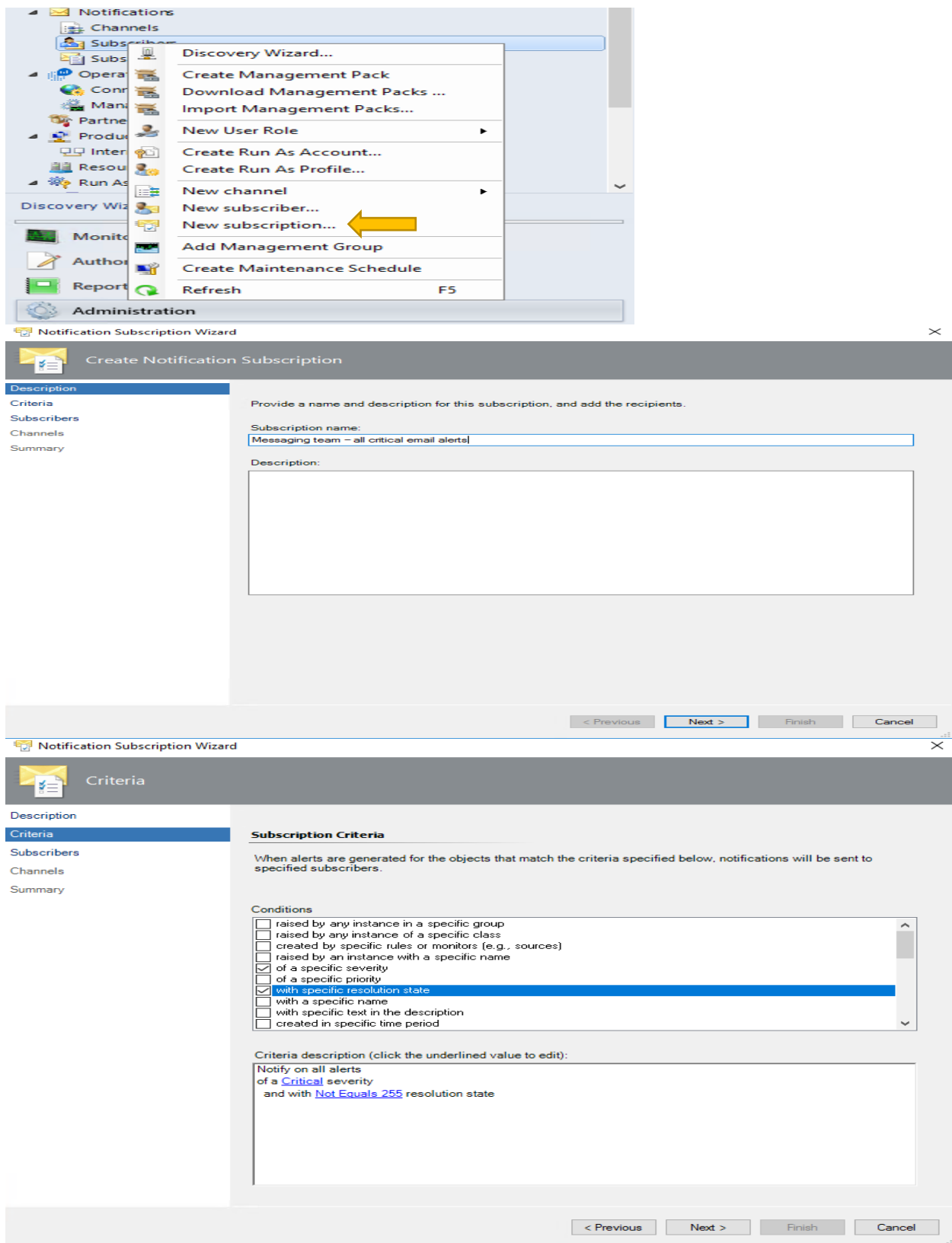
< Previous

Next >

Finish

Close

Next, we will configure subscriptions



Resolution State

☐ Select resolution states to search for:

☐ New (0)
☐ Awaiting Evidence (247)
☐ Assigned to Engineering (248)
☐ Acknowledged (249)
☐ Scheduled (250)
☐ Resolved (254)
☐ Closed (255)

Select All

Clear All

☒ Select only specific Resolution State:

Not Equals

255

OK

Cancel

Subscriber Search

To add subscribers, search for the subscriber by name and then add them to the selected objects list.

Filter by (optional):

Search

Available subscribers:

Name	Channel Ty...
RAMLAN\Administrator	E-Mail (SM...

Selected subscribers:

Add

Remove

Name	Channel Ty...
RAMLAN\Administrator	E-Mail (SM...

OK

Cancel

Notification Subscription Wizard

Subscribers

Description
Criteria
Subscribers
Channels
Summary

Subscribers

Specify the subscribers to be notified by this notification subscription.

To define new subscribers, click New. To add subscribers who are already defined, click Add.

New...

Edit...

Add...

Remove...

Selected subscribers:

Name	Channel Type
RAMLAN\Administrator	E-Mail (SMTP)

< Previous

Next >

Finish

Cancel

Channel Search


? X

To add channels, search for the channel by name and then add them to the selected channels list.

Filter by (optional):

Search

Available channels:

Channel	Channel Type	Endpoint
 Default SMTP Channel	E-Mail (SMTP)	SMTPEndpoint for Default SMT...

Selected channels:

Add

Remove

Channel	Channel Type	Endpoint
 Default SMTP Channel	E-Mail (SMTP)	SMTPEndpoint for Default SMT...

OK

Cancel

Notification Subscription Wizard

Channels

Description

Criteria

Subscribers

Channels

Summary

You can set the channels for notifications generated by this subscription. Currently the following channels are specified:

Channel	Type	Endpoint
Default SMTP Ch...	E-Mail (SMTP)	SMTPEndpoint for Default SMTP Channel

[New...](#) [Edit...](#) [Add...](#) [Remove...](#)

Alert aging:

☒ Send notifications without delay

☐ Delay sending notifications if conditions remain unchanged for longer than (in minutes)

< Previous Next > Finish Cancel

Notification Subscription Wizard

Summary

Description

Criteria

Subscribers

Channels

Summary

Confirm notification subscription settings

Name
Messaging team – all critical email alerts

Description
Notify on all alerts where of a critical severity and with Not Equals 255 resolution state

Subscribers
RAHMAN Administrator

Channels
Default SMTP Channel

☒ Enable this notification subscription

< Previous Next > Finish Cancel

Notification Subscription Wizard

Subscription Completion

Description


Criteria

Subscribers

Channels

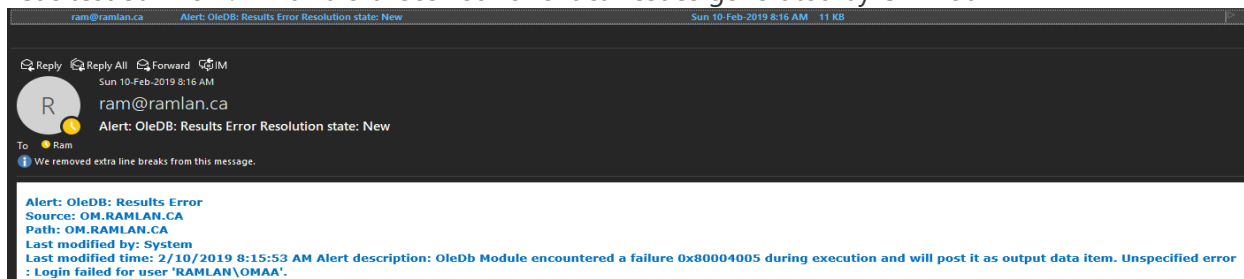
Summary

Saving notification subscription

 Subscription saved successfully.

< Previous Next > Finish Close

Let's test our work. Email alert received for critical issues generated by OM 1807



So, our email setup to receive critical warnings is working.

Active Directory Integration:

We have to run below command to create a container in ADUC. The steps are as follows.

Open Command Prompt as Admin

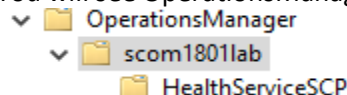
Go to C:\Program Files\Microsoft System Center\Operations Manager\Server

Run momadadmin scom1801lab ramlan\omadmins ramlan\administrator ramlan

```
C:\Program Files\Microsoft System Center\Operations Manager\Server>momadadmin scom1801lab ramlan\omadmins ramlan\administrator ramlan
Microsoft System Center Operations Manager -- MOM AD Configuration Tool
Copyright (C) Microsoft. All rights reserved.
```

```
Successfully Created a container for ManagementGroup scom1801lab
Administrator is already a member of ramlan\omadmins security group. No changes were required.
```

You will see OperationsManager Container in ADUC with Security Group and Health Service SCP

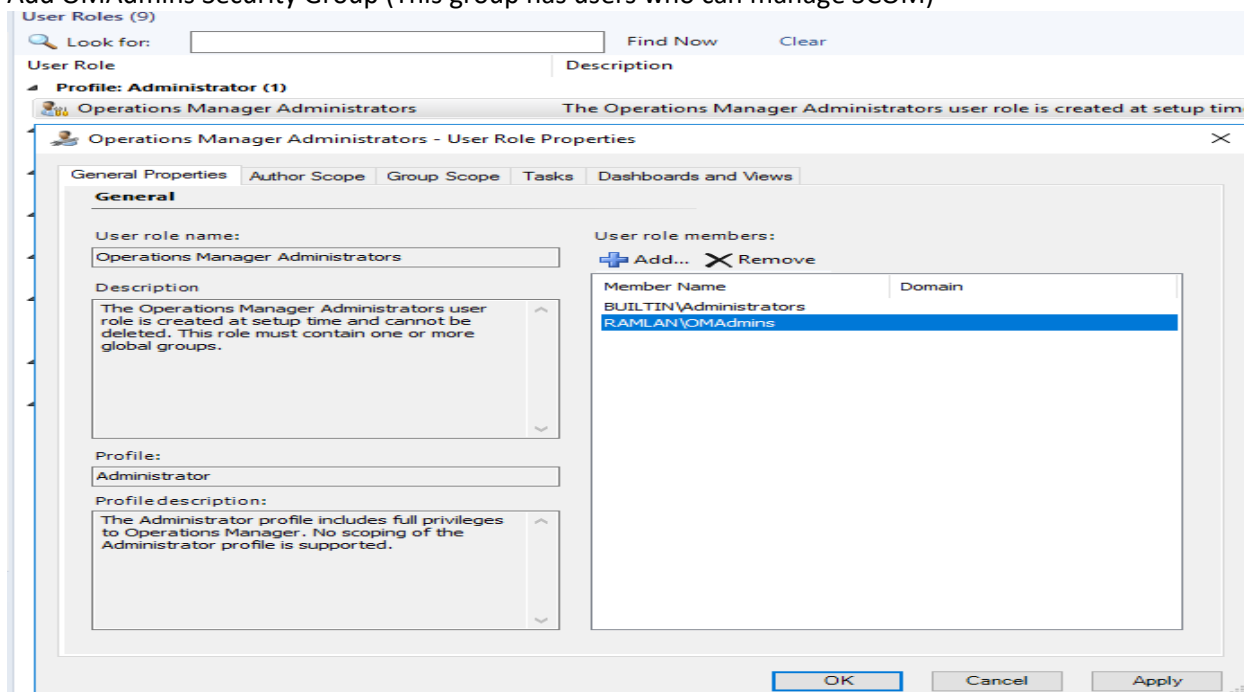


Add Security Group to Operations Manager Administrators

Go to Administration – Security – User Role

Right Click Operations Manager Administrators

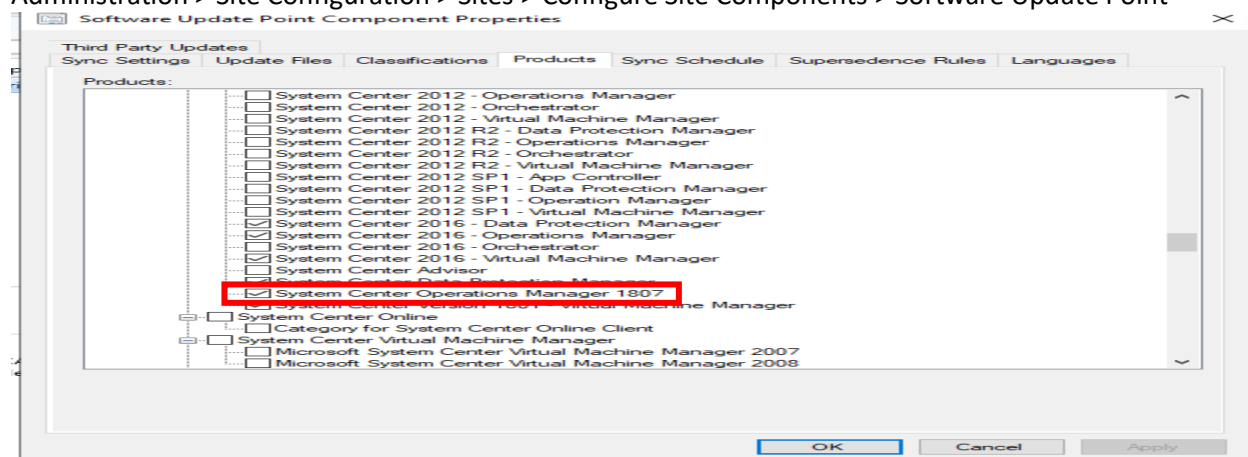
Add OMAdmins Security Group (This group has users who can manage SCOM)



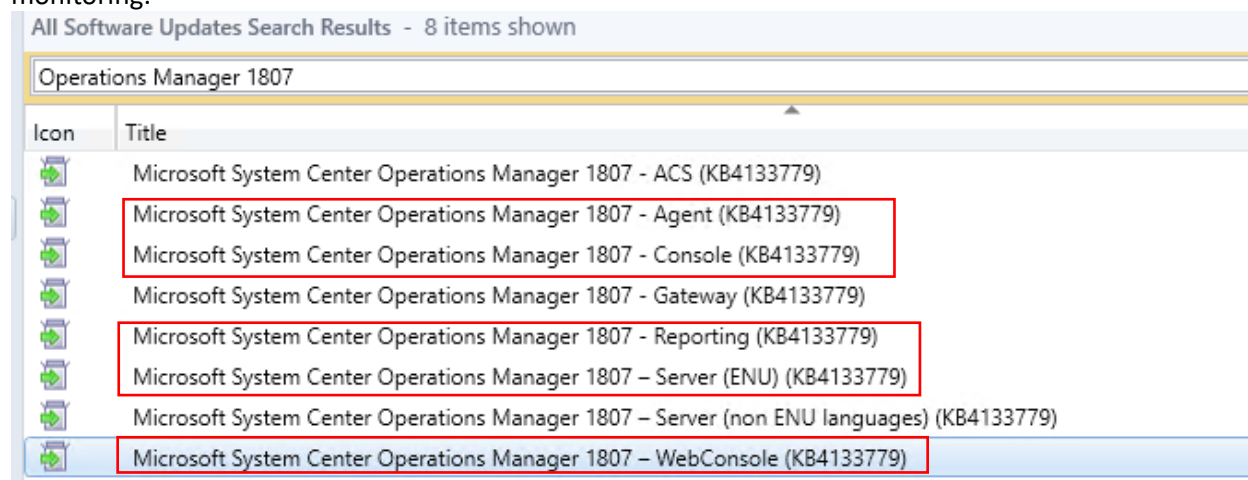
Upgrade OpsMgr 1801 to 1807 using Configuration Manager Current Branch 1810

Open SCCM Console

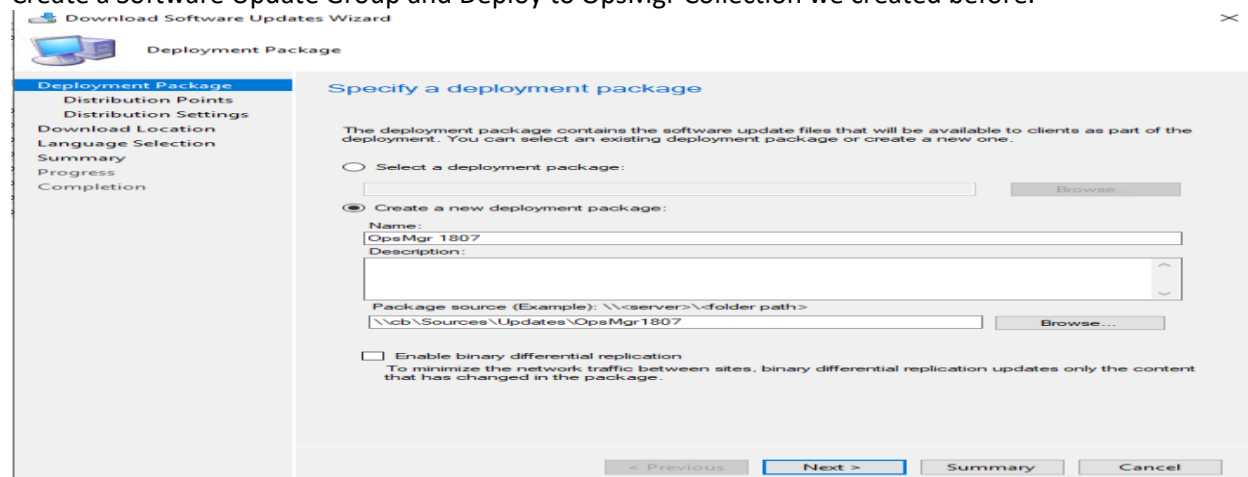
Administration > Site Configuration > Sites > Configure Site Components > Software Update Point



From the updates we need only a few of them. Agent update will be deployed to all Servers that we are monitoring.



Create a Software Update Group and Deploy to OpsMgr Collection we created before.



Download Software Updates Wizard

Distribution Points

Deployment Package
Distribution Points
Distribution Settings
Download Location
Language Selection
Summary
Progress
Completion

Specify the distribution points or distribution point groups to host the content

Distribution points or distribution point groups:

Filter...

Name	Description	Associations
CB.RAMLAN.CA Toronto	Distribution point Distribution point group	0

Add
Remove

< Previous Next > Summary Cancel

Download Software Updates Wizard

Distribution Settings

Deployment Package
Distribution Points
Distribution Settings
Download Location
Language Selection
Summary
Progress
Completion

Specify the general distribution settings for this package

Specify the distribution settings for this package.
Use distribution priority to determine the order in which packages are sent to other sites and the distribution points in the same site. Packages that you configure to have a high priority are sent before packages that have a medium priority or a low priority. Packages that have the same priority are sent in the order in which they are created.

Distribution priority: Medium

When the content is not available, specify whether you want to distribute the content to distribution points that are configured for on-demand distribution and in the current boundary group for the client.

☐ Enable for on-demand distribution

Prestaged distribution point settings

Specify the behavior that you want to occur when a distribution point is enabled for prestaged content.

☒ Automatically download content when packages are assigned to distribution points

☐ Download only content changes to the distribution point

☐ Manually copy the content in this package to the distribution point

< Previous Next > Summary Cancel

Download Software Updates Wizard

Download Location

Deployment Package
Distribution Points
Distribution Settings
Download Location
Language Selection
Summary
Progress
Completion

Specify the source location for software updates that you will download

If your site server does not have an Internet connection, you can download the software updates from a different computer and save them to a network location accessible by the site server.

☒ Download software updates from the Internet

☐ Download software updates from a location on my network:
Example: \\<server>\<folder path>
Browse...

When the deployment package contains all required software updates, select "Download software updates from the Internet". The software updates files will be validated, but will not be downloaded again.

< Previous Next > Summary Cancel

Download Software Updates Wizard

Language Selection

Deployment Package
Distribution Points
Distribution Settings
Download Location
Language Selection
Summary
Progress
Completion

Specify the languages of the updates

Software update files are downloaded for each language specified in the Update File column.

Language	Update File
Arabic	<input type="checkbox"/>
Bulgarian	<input type="checkbox"/>
Chinese (Simplified, PRC)	<input type="checkbox"/>
Chinese (Traditional, Hong Kong S.A.R.)	<input type="checkbox"/>
Chinese (Traditional, Taiwan)	<input type="checkbox"/>
Croatian	<input type="checkbox"/>
Czech	<input type="checkbox"/>
Danish	<input type="checkbox"/>
Dutch	<input type="checkbox"/>
English	<input checked="" type="checkbox"/>
Estonian	<input type="checkbox"/>
Finnish	<input type="checkbox"/>
French	<input type="checkbox"/>
German	<input type="checkbox"/>
Greek	<input type="checkbox"/>
Hebrew	<input type="checkbox"/>
Hindi	<input type="checkbox"/>
Hungarian	<input type="checkbox"/>

< Previous Next > Summary Cancel



Summary

Deployment Package
Distribution Points
Distribution Settings
Download Location
Language Selection
Summary
Progress
Completion

Confirm the settings

Details:

Package:

The software updates will be placed in a new package:

- OpaMgr 1807
- Content (2):
 - CB.RAMLAN.CA
 - Toronto

Distribution Settings

- Priority: Medium
- Enable for on-demand distribution: Disabled
- Prestaged distribution point settings: Automatically download content when packages are assigned to distribution points

Software updates that will be downloaded from the internet

- Microsoft System Center Operations Manager 1807 - ACS (KB4133779)
- Microsoft System Center Operations Manager 1807 - Agent (KB4133779)
- Microsoft System Center Operations Manager 1807 - Console (KB4133779)
- Microsoft System Center Operations Manager 1807 - Gateway (KB4133779)
- Microsoft System Center Operations Manager 1807 - Reporting (KB4133779)
- Microsoft System Center Operations Manager 1807 - Server (ENU) (KB4133779)
- Microsoft System Center Operations Manager 1807 - Server (non ENU languages) (KB4133779)
- Microsoft System Center Operations Manager 1807 - WebConsole (KB4133779)

Language Selection:

English

To change these settings, click Previous. To apply the settings, click Next.

< Previous

Next >

Summary

Cancel



Progress

Deployment Package
Distribution Points
Distribution Settings
Download Location
Language Selection
Summary
Progress
Completion

Status: Provisioning update - Microsoft System Center Operations Manager 1807 - Server (non ENU languages) (KB4133779)

Processing 75%...

< Previous

Next >

Summary

Cancel



Completion

Deployment Package
Distribution Points
Distribution Settings
Download Location
Language Selection
Summary
Progress
Completion



The Download Software Updates Wizard completed successfully

Details:

Package:

The software updates were placed in a new package:

- OpaMgr 1807
- Success: Content (2):
 - CB.RAMLAN.CA
 - Toronto

Distribution Settings

- Priority: Medium
- Enable for on-demand distribution: Disabled
- Prestaged distribution point settings: Automatically download content when packages are assigned to distribution points

Software updates downloaded from the internet

- Success: Microsoft System Center Operations Manager 1807 - ACS (KB4133779)
- Success: Microsoft System Center Operations Manager 1807 - Agent (KB4133779)
- Success: Microsoft System Center Operations Manager 1807 - Console (KB4133779)
- Success: Microsoft System Center Operations Manager 1807 - Gateway (KB4133779)
- Success: Microsoft System Center Operations Manager 1807 - Reporting (KB4133779)
- Success: Microsoft System Center Operations Manager 1807 - Server (ENU) (KB4133779)
- Success: Microsoft System Center Operations Manager 1807 - Server (non ENU languages) (KB4133779)
- Success: Microsoft System Center Operations Manager 1807 - WebConsole (KB4133779)

To exit the wizard, click Close.

< Previous

Next >

Summary

Close

We can deploy this update to OpsMgr collection.

Deploy Software Updates Wizard

General

Specify general information for this deployment

Deployment Name: OpsMgr 1807 Update

Description:

The following software update or software update group is included in this deployment.

Software Update/Software Update Group: OpsMgr 1807

Select a previously saved deployment template that defines configuration settings for this deployment. Before you complete this wizard, you have the option to save the current configurations as a new deployment template.

Select Deployment Template...

Deploy this software update deployment to the following collection.

Collection: OpsMgr

< Previous Next > Summary Cancel

Deploy Software Updates Wizard

Deployment Settings

Specify deployment settings for this deployment

Specify if this deployment is available for installation or if it is a required installation.

Type of deployment: Required

☐ Use Wake-on-LAN to wake up clients for required deployments

State message detail level.

You can specify the state message detail level returned by clients for this software update deployment.

Detail level: Only success and error messages

< Previous Next > Summary Cancel

Deploy Software Updates Wizard

Scheduling

Configure schedule details for this deployment

Schedule evaluation

Specify if the schedule for this deployment is evaluated based upon Universal Coordinated Time (UTC) or the local time of the client.

Time based on: Client local time

Software available time

Specify when software updates are available. Software updates are available as soon as they are distributed to the content server unless they are scheduled to install at a later time.

☒ As soon as possible

☐ Specific time: 10-Feb-2019 7:56 AM

Installation deadline

Specify an installation deadline for required software updates. You can determine the deadline by adding the deadline time to the installation time. When the deadline is reached, required software updates are installed on the device and the device is restarted if necessary.

☒ As soon as possible

☐ Specific time: 17-Feb-2019 7:56 AM

☐ Delay enforcement of this deployment according to user preferences, up to the grace period defined in client settings.

< Previous Next > Summary Cancel



User Experience

General
Deployment Settings
Scheduling
User Experience
Alerts
Download Settings
Summary
Progress
Completion

Specify the user experience for this deployment

User visual experience

User notifications: Display in Software Center and show all notifications

Deadline behavior

When the installation deadline is reached, allow the following activities to be performed outside the maintenance window:

- ☐ Software updates installation
☐ System restart (if necessary)

Device restart behavior

Some software updates require a system restart to complete the installation process. You can suppress this restart on servers and workstations.

Suppress the system restart on the following devices:

- ☐ Servers
☐ Workstations

Write filter handling for Windows Embedded devices

- ☒ Commit changes at deadline or during a maintenance window (requires restarts)

If this option is not selected, content will be applied on the overlay and committed later.

Software updates deployment re-evaluation behavior upon restart

- ☐ If any update in this deployment requires a system restart, run updates deployment evaluation cycle after restart

< Previous

Next >

Summary

Cancel



Alerts

General
Deployment Settings
Scheduling
User Experience
Alerts
Download Settings
Summary
Progress
Completion

Specify software update alert options for this deployment.

Configuration Manager alerts

Specify the criteria for generating a Configuration Manager alert.

- ☐ Generate an alert when the following conditions are met:

Client compliance is below the following (percent): 95

Alerts are generated when a specified offset period has elapsed after the previously defined installation deadline.

Offset from the deadline time: 7 DaysAlert generation time (represented in local time): 17-Feb-2019 7:56 AM

Operations Manager alerts

System Center Operations Manager might generate alerts when a device installs a software update. To avoid receiving alerts for planned maintenance, you can disable these alerts during the duration of the software update installation process.

- ☐ Disable Operations Manager alerts while software updates run
☐ Generate Operations Manager alert when a software update installation fails

< Previous

Next >

Summary

Cancel



Download Settings

General
Deployment Settings
Scheduling
User Experience
Alerts
Download Settings
Summary
Progress
Completion

Specify download settings of this deployment

Select the deployment option to use when a client uses a distribution point from a neighbor boundary group or the default site boundary group.

Deployment options:

- ☒ Do not install software updates
☐ Download software updates from distribution point and install

When software updates are not available on any distribution points in current or neighbor boundary group, client can download and install software updates from distribution points in site default boundary group.

Deployment options:

- ☐ Do not install software updates
☒ Download and install software updates from the distribution points in site default boundary group

- ☐ If software updates are not available on distribution point in current, neighbor or site boundary groups, download content from Microsoft Updates

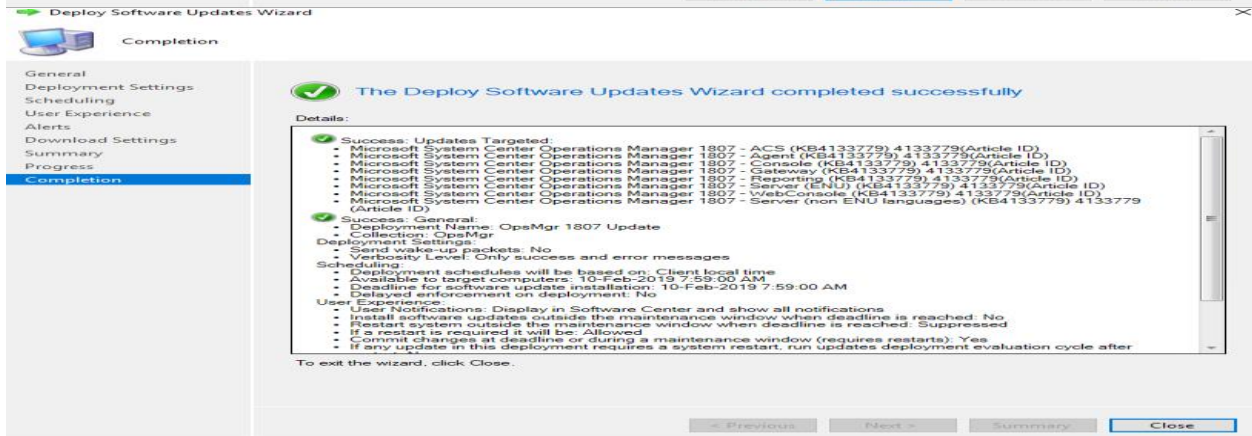
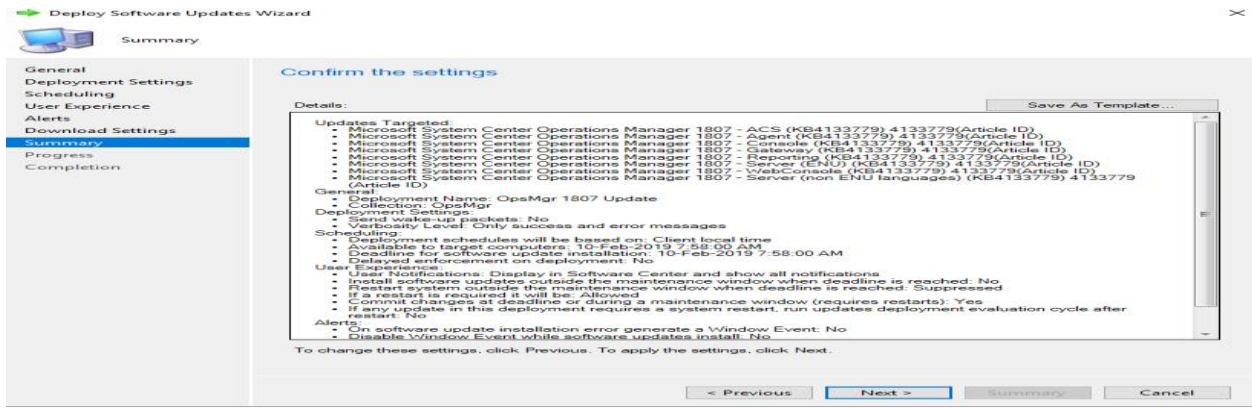
- ☐ Allow clients on a metered Internet connection to download content after the installation deadline, which might incur additional costs

< Previous

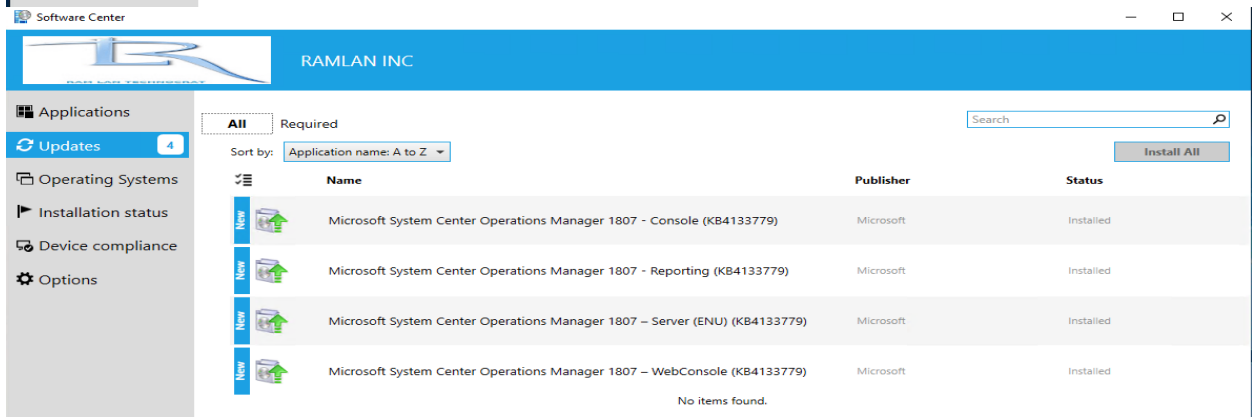
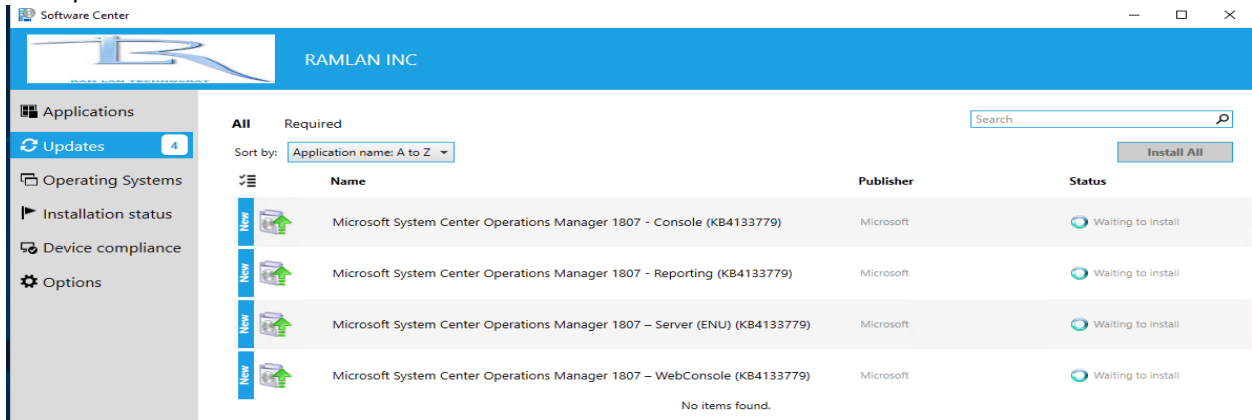
Next >

Summary

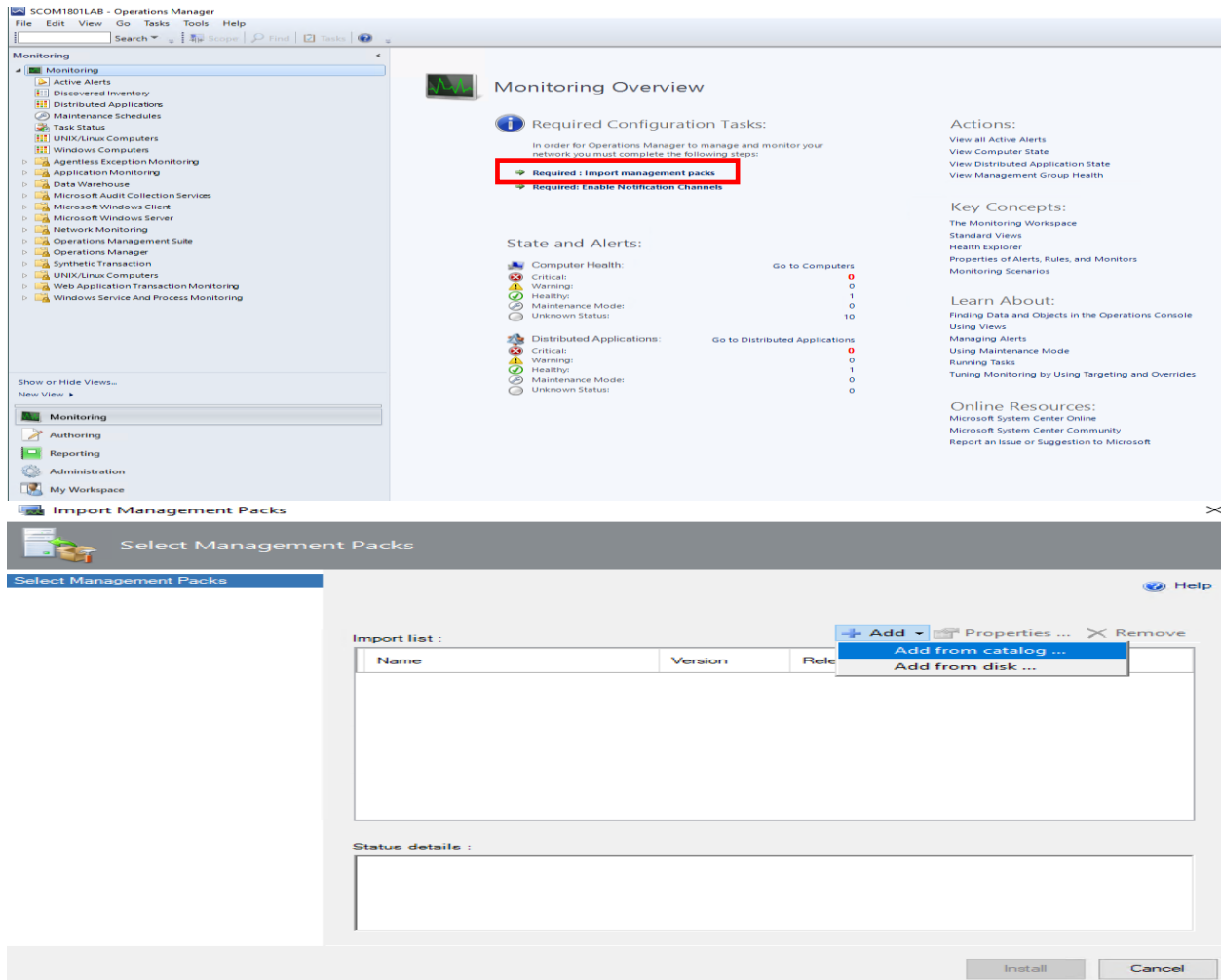
Cancel



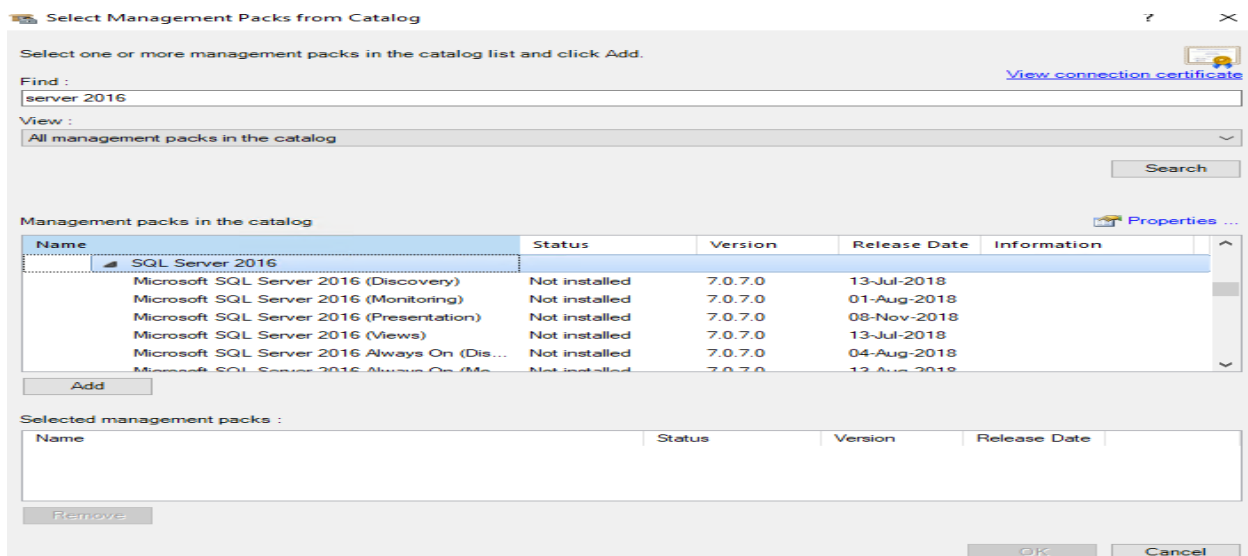
The updates have started to install on OM.RAMLAN.CA server.

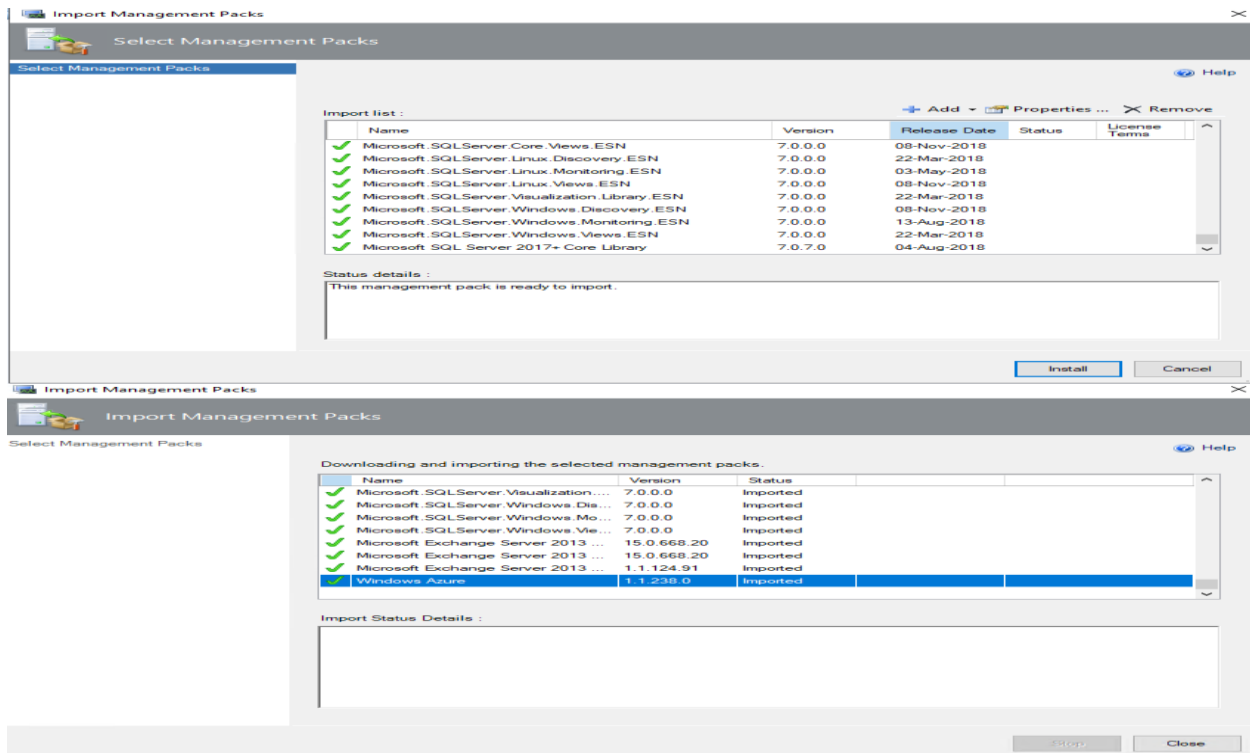


Import Management Packs:



Search for Windows Server 2016, 2019, SQL Server 2016, 2017, Exchange and other MP you need.

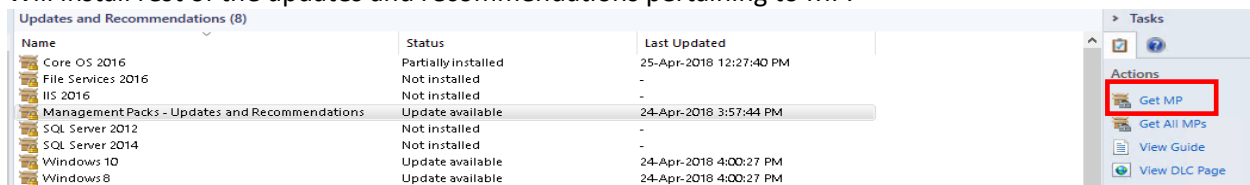




Management Packs – Updates and Recommendations:

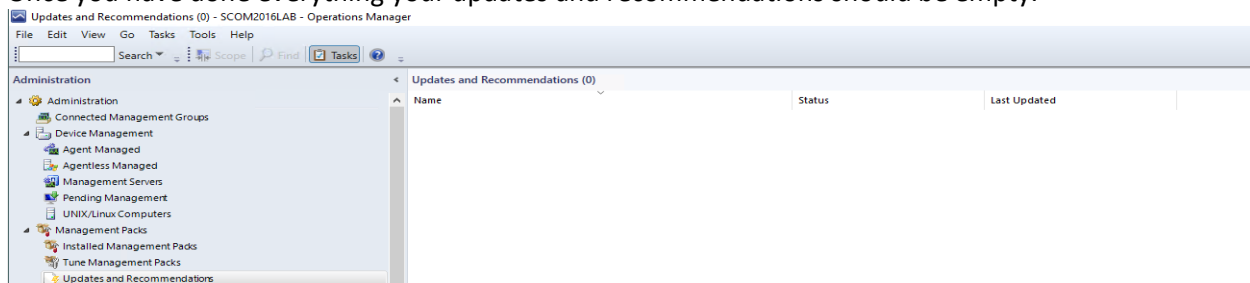


Will install rest of the updates and recommendations pertaining to MP.



Select each one and click Get MP or click Get All MPs and follow the screen to complete the install.

Once you have done everything your updates and recommendations should be empty.



Now we have installed all the updates and recommendations pertaining to MP's.

HOW TO CREATE CORRECT OVERRIDE IN OM1807:

I was getting these warnings for SQL. I would like to ignore as these are not important. So the right steps to create override are as follows:

Active Alerts (9)

Source	Name	Resolution State	Created	Age
Severity: Critical (2)				
ConfigMgr Mic...	ConfigMgr Site Role Issue	New	27-Apr-2018 10:28:10 AM	11 Minutes
OM.RAMLAN.CA	SSRS 2016: An Error occurred during executi...	New	27-Apr-2018 10:05:12 AM	34 Minutes
Severity: Warning (7)				
RTC	MSSQL 2014: Service Pack Compliance	New	27-Apr-2018 10:03:24 AM	36 Minutes
LYNCLOCAL	MSSQL 2014: Service Pack Compliance	New	27-Apr-2018 10:03:22 AM	36 Minutes
RTCLocal	MSSQL 2014: Service Pack Compliance	New	27-Apr-2018 10:03:22 AM	36 Minutes
RTCLocal	MSSQL 2014: SQL Server cannot authenticat...	New	27-Apr-2018 10:03:19 AM	40 Minutes
LYNCLOCAL	MSSQL 2014: SQL Server cannot authenticat...	New	27-Apr-2018 10:03:19 AM	40 Minutes
RTC	MSSQL 2014: SQL Server cannot authenticat...	New	27-Apr-2018 10:03:19 AM	40 Minutes
OM.RAMLAN.CA	MSSQL 2016: Monitoring warning	New	27-Apr-2018 9:56:23 AM	43 Minutes

Alert Details

Warning: MSSQL 2014: SQL Server cannot authenticate using Kerberos because the Service Principal Name (SPN) is missing, misplaced, or duplicated.

Source: RTC

Full Path Name: SFB.RAMLAN.CA\RTC

Alert Monitor: Service Principal Name Configuration Status

Created: 27-Apr-2018 10:03:19 AM

Alert Description: SQL Server cannot authenticate using Kerberos because the Service Principal Name (SPN) is missing, misplaced, or duplicated. Service Account: NT AUTHORITY\NETWORKSERVICE. Missing SPNs: MSSQLSvc/SFB.RAMLAN.CA\S0441. Misplaced SPNs: Duplicate SPNs:

Click Monitoring – Active Alerts – Select single warning – Click Alert Monitor

Service Principal Name Configuration Status Properties

Company Knowledge Overrides

General Health Alerting Diagnostic and Recovery Configuration Product Knowledge

General properties

Specify the name and description for the monitor you are creating.

Name: Service Principal Name Configuration Status

Description (optional): This monitor checks the status of the Microsoft SQL Server instance Service Principal Name configuration. Note that the monitor is always in "Healthy" state for non-domain joined machines.

Management pack: Microsoft SQL Server 2014 (Monitoring)

Monitor target: SQL Server 2014 DB Engine

Parent monitor: Configuration

☒ Monitor is enabled

Close

This monitor is defined in Microsoft SQL Server 2014 Monitoring Management Pack. So let's complete override configuration by going to Overrides tab.

Click Override

Service Principal Name Configuration Status Properties

GeneralHealthAlertingDiagnostic and RecoveryConfigurationProduct KnowledgeCompany KnowledgeOverrides

Overrides are used to change the monitor, diagnostic and recovery configuration. You can also view all overrides applied to each by opening the summary dialog.

Choose the monitor, diagnostic or recovery from the list below for which you want to apply overrides for or view summary on:

Monitor (Service Principal Name Configuration Status)

Disable...Override...

Examples:

Disable a monitor: I want to disable monitor for all Windows Computers.

Override a diagnostic: I need to override this diagnostic for one of my Windows Computers.

View summary of a recovery: I need to view the objects this recovery has been enabled for.

For the object: RTC
For all objects of class: SQL Server 2014 DB Engine
For a group...
For a specific object of class: SQL Server 2014 DB Engine
For all objects of another class...

Service Principal

Close

Override Properties

Monitor name:Service Principal Name Configuration Status

Category:Availability Health

Overrides target:Object: RTC

Override-controlled parameters:

	Override	Parameter Name	Parameter Type	Default Value	Override Value	Effective Value	Change Status
	<input type="checkbox"/>	Alert On State	Enumeration	The monitor is...	The monitor is...	The monitor is...	[No change]
	<input type="checkbox"/>	Alert Priority	Enumeration	Medium	Medium	Medium	[No change]
	<input type="checkbox"/>	Alert severity	Enumeration	Warning	Warning	Warning	[No change]
	<input type="checkbox"/>	Auto-Resolve Alert	Boolean	True	True	True	[No change]
▶	<input checked="" type="checkbox"/>	Enabled	Boolean	True	False	True	[Added]
	<input type="checkbox"/>	Generates Alert	Boolean	True	True	True	[No change]
	<input type="checkbox"/>	Interval (seconds)	Integer	900	900	900	[No change]
	<input type="checkbox"/>	Scope of search	String	LDAP	LDAP	LDAP	[No change]

Details:

Enabled

Description

The new custom override will be created in the "[Not available]". Click apply to view the new effective value for this parameter.

Edit...

Management pack

Select destination management pack:

<Select Management Pack>

New...

HelpOKApplyCancel

Click New

Override Properties ×

Monitor name: Service Principal Name Configuration Status

Create a Management Pack ×

General Properties

General Properties Knowledge Help

Management Pack General Properties

ID :

Name :

Version : For example, 1.0.0.0

Description :

Click Next to create the Management Pack

Override Properties ×

Monitor name: Service Principal Name Configuration Status

Category: Availability Health

Overrides target: Object: RTC

Override-controlled parameters:

	Override	Parameter Name	Parameter Type	Default Value	Override Value	Effective Value	Change Status
	<input type="checkbox"/>	Alert On State	Enumeration	The monitor ...	The monitor is...	The monitor is...	[No change]
	<input type="checkbox"/>	Alert Priority	Enumeration	Medium	Medium	Medium	[No change]
	<input type="checkbox"/>	Alert severity	Enumeration	Warning	Warning	Warning	[No change]
	<input type="checkbox"/>	Auto-Resolve Alert	Boolean	True	True	True	[No change]
▶	<input checked="" type="checkbox"/>	Enabled	Boolean	True	False	True	[Added]
	<input type="checkbox"/>	Generates Alert	Boolean	True	True	True	[No change]
	<input type="checkbox"/>	Interval (seconds)	Integer	900	900	900	[No change]
	<input type="checkbox"/>	Scope of search	String	LDAP	LDAP	LDAP	[No change]

Details:

Enabled
 The new custom override will be created in the 'Microsoft.SQL.Server.Monitoring.Overrides'. Click apply to view the new effective value for this parameter.

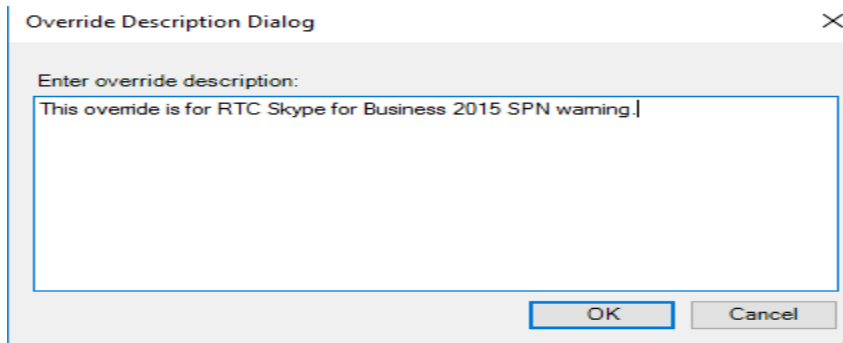
Description
 This override is for RTC Skype for Business 2015 SPN warning.

[Edit...](#)

Management pack

Select destination management pack:

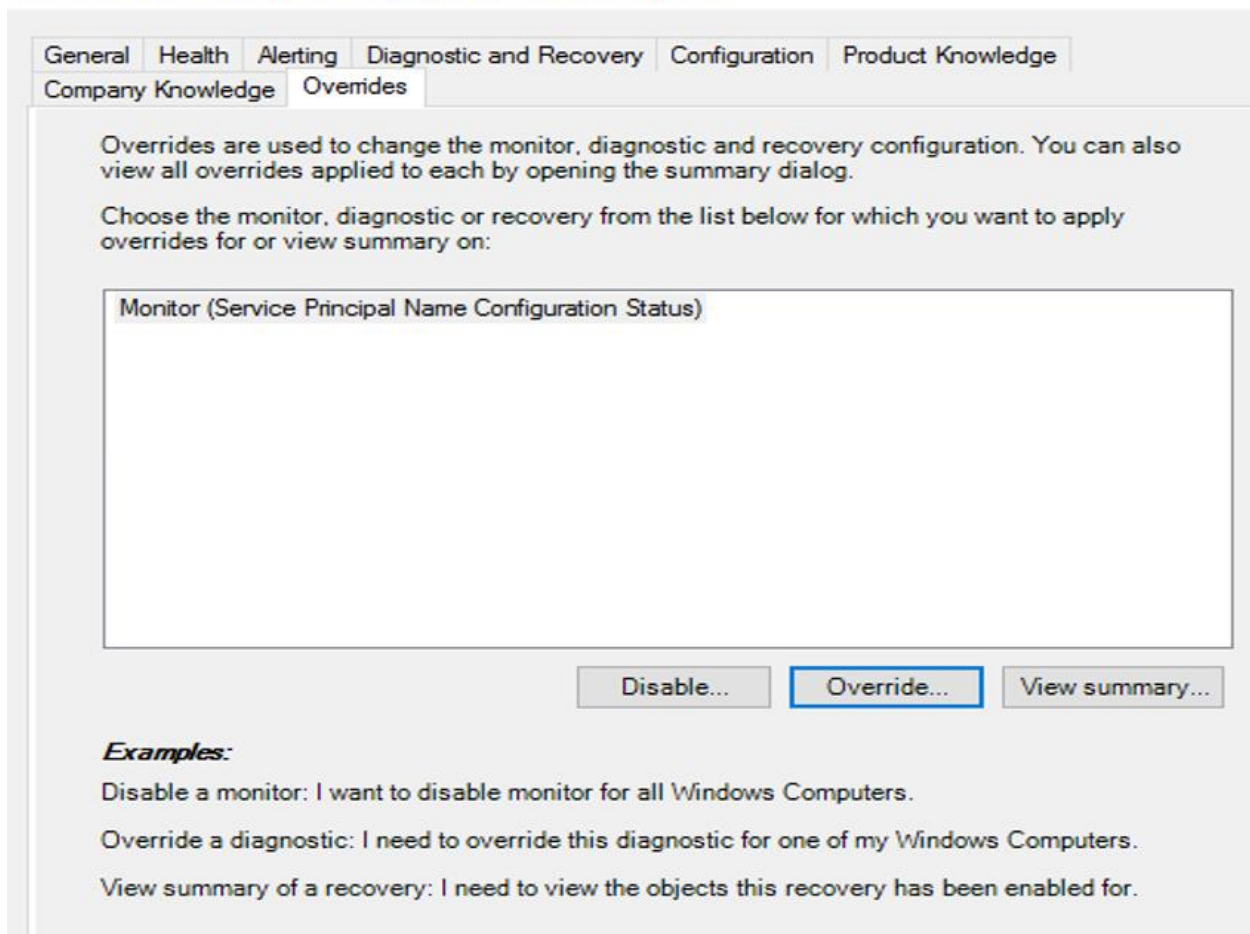
Click Edit and type below description so that you know why you created this override. Click OK twice to complete the override



The dialog box is titled "Override Description Dialog" with a close button (X) in the top right corner. It contains a text area with the label "Enter override description:" and the text "This override is for RTC Skype for Business 2015 SPN warning." Below the text area are two buttons: "OK" and "Cancel".

Click close

Service Principal Name Configuration Status Properties



The dialog box has several tabs: "General", "Health", "Alerting", "Diagnostic and Recovery", "Configuration", "Product Knowledge", "Company Knowledge", and "Overrides". The "Overrides" tab is selected. The main content area contains the following text:

Overrides are used to change the monitor, diagnostic and recovery configuration. You can also view all overrides applied to each by opening the summary dialog.

Choose the monitor, diagnostic or recovery from the list below for which you want to apply overrides for or view summary on:

Monitor (Service Principal Name Configuration Status)

Below the list are three buttons: "Disable...", "Override..." (highlighted with a blue border), and "View summary..."

Examples:

- Disable a monitor: I want to disable monitor for all Windows Computers.
- Override a diagnostic: I need to override this diagnostic for one of my Windows Computers.
- View summary of a recovery: I need to view the objects this recovery has been enabled for.

This is how you can complete override within OM1807. Don't perform this in production unless you are confident you don't need to monitor this warning.

Data Access Service SPN Error Alert:

Data Access Service SPN Not Registered

The System Center Data Access service failed to register an SPN. A domain admin needs to add MSOMSdkSvc/scom2016 and MSOMSdkSvc/scom2016.contoso.com to the servicePrincipalName of CN=SCOM2016,OU=servers,DC=contoso,DC=com

If you get above alert error from OM1807 – Run below command and check SPN Entry for each account accessing SCOM. If you don't see any entry, then run this command

setspn -s MSOMSdkSvc/om.ramlan.ca ramlan\ram - This is just an example only

```
C:\>setspn -l ramlan\omdas
Registered ServicePrincipalNames for CN=Config and Data Access Accou,OU=OM,DC=RAMLAN,DC=CA:

C:\>setspn -l ramlan\omread
Registered ServicePrincipalNames for CN=Datawarehouse Reader Account,OU=OM,DC=RAMLAN,DC=CA:

C:\>setspn -l ramlan\omwrite
Registered ServicePrincipalNames for CN=Datawarehouse Write Account,OU=OM,DC=RAMLAN,DC=CA:

C:\>setspn -l ramlan\sqlsvc
Registered ServicePrincipalNames for CN=SQL Service Account,OU=OM,DC=RAMLAN,DC=CA:

C:\>setspn -l ramlan\omaa
Registered ServicePrincipalNames for CN=Server Action Account,OU=OM,DC=RAMLAN,DC=CA:

C:\>setspn -l ramlan\ram
Registered ServicePrincipalNames for CN=Ram,OU=Lab Users,DC=RAMLAN,DC=CA:

C:\>setspn -l ramlan\om
Registered ServicePrincipalNames for CN=OM,CN=Computers,DC=RAMLAN,DC=CA:
    MSOMHSvc/OM
    MSOMHSvc/OM.RAMLAN.CA
    CmRcService/OM
    CmRcService/OM.RAMLAN.CA
    WSMAN/OM
    WSMAN/OM.RAMLAN.CA
    TERMSRV/OM
    TERMSRV/OM.RAMLAN.CA
    RestrictedKrbHost/OM
    HOST/OM
    RestrictedKrbHost/OM.RAMLAN.CA
    HOST/OM.RAMLAN.CA
```

This concludes the whole process of setting up OM1801/1807.

Thanks

Ram Lan

10th Feb 2019

.NET 3.5 Install Error:

If you get this error while installing .NET Framework 3.5 within Server Manager – Mount the ISO and run below command.

Error 0x800F0954 when installing .NET Framework 3.5

Installing .NET Framework 2.0, 3.0, and 3.5 in Windows 10 from Media

First, unzip the files from the Windows 10 ISO to a local or network folder and note its location. Or, if it's easier, just mount it.

Then, open PowerShell with Administrator privileges and type the following command by replacing the location of the files you unzipped.

```
Add-WindowsCapability -Online -Name NetFx3~~~~ -Source D:\Sources\SxS
```

Add WindowsCapability Online -Name NetFx3~~~~ Source D:\Sources\SxS