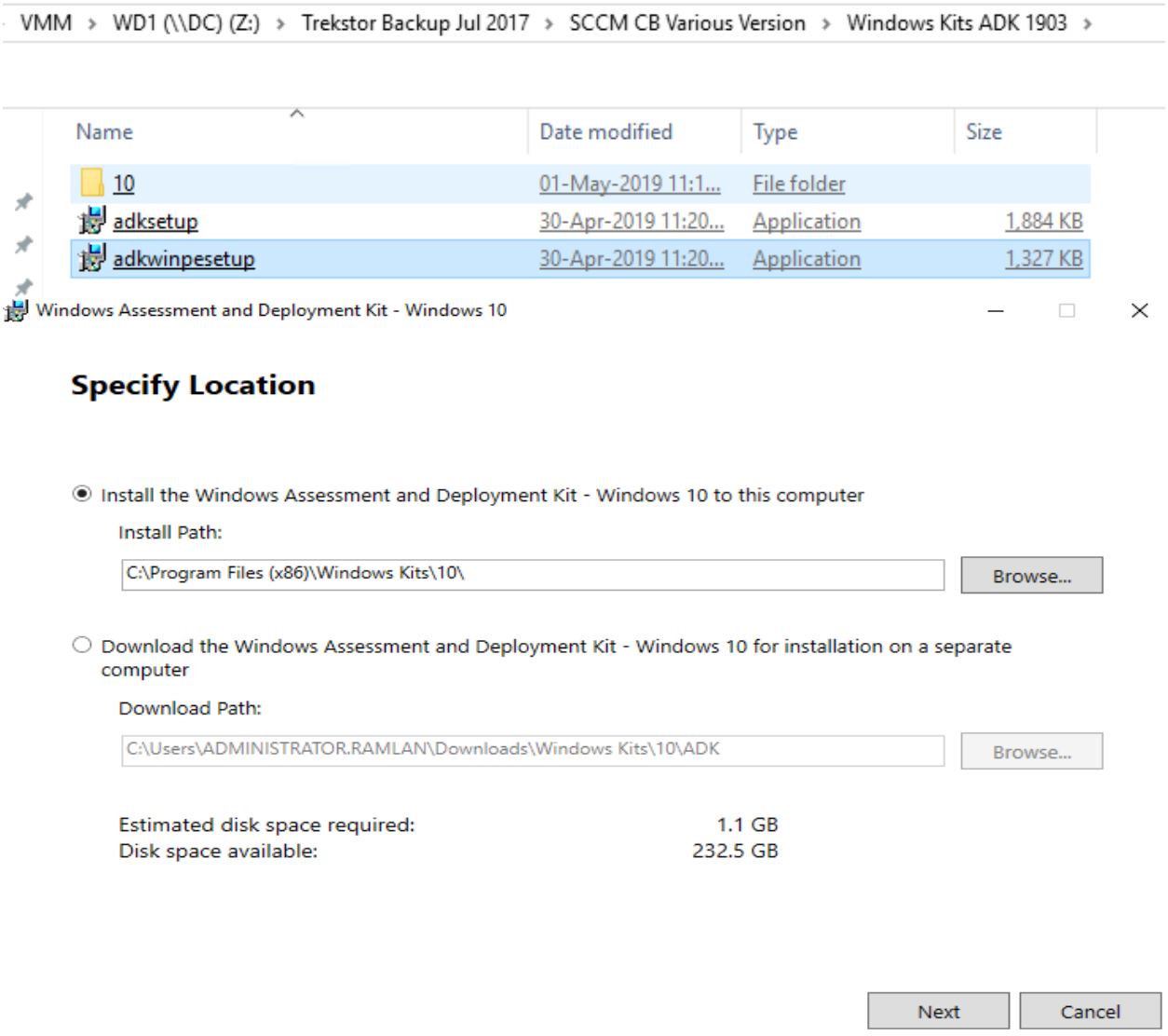
Installing Virtual Machine Manager 2019 (VMM)

In this post, I will show you the steps for installing Virtual Machine Manager 2019. I will be installing it on a virtual machine running Server 2019 and SQL Server 2017.

First we will take care of these pre req.

1. ADK 1903
2. SQL Server 2017 + Latest CU
3. ODBC Driver 11 for SQL Server
4. SQL Server Command Line Utilities 11
5. Service Account (Group Managed Service) – Create this on the Domain Controller using PS
6. Install all updates for Server 2019
7. Restart the server

ADK 1903:



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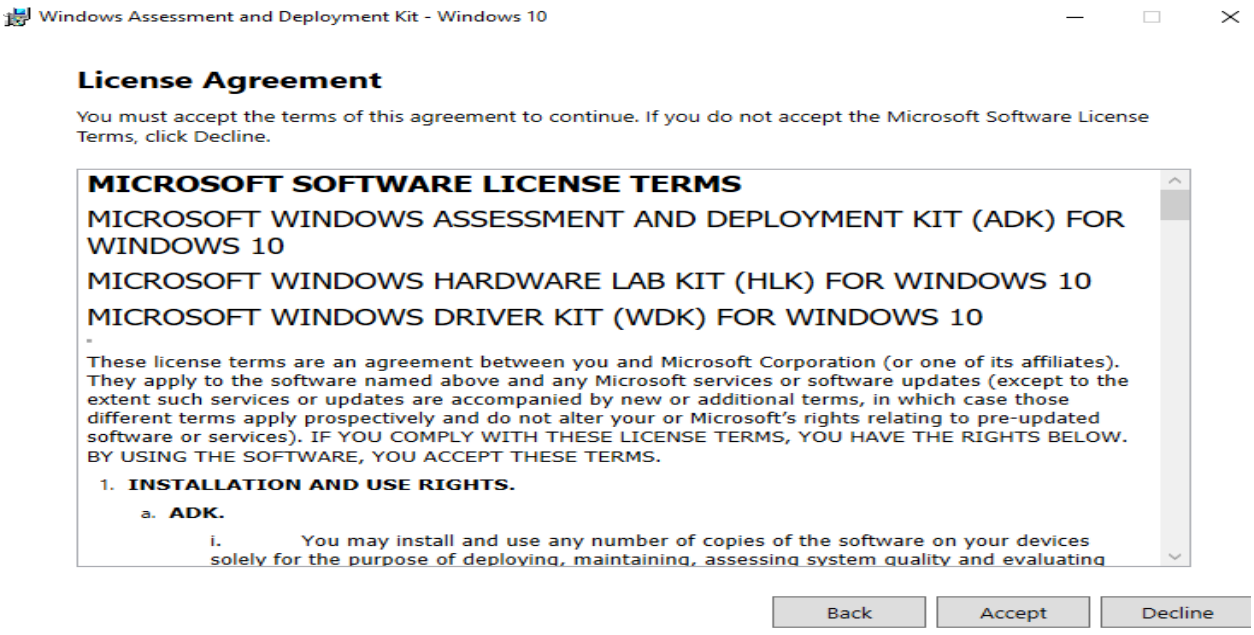
Windows 10 Kits collect and send anonymous usage data to Microsoft about how our customers use Microsoft programs and about some of the problems they encounter. Microsoft uses this information to improve the products and features. Participation in the program is voluntary, and the end results are software improvements to better meet the needs of our customers. No code or software produced by you will be collected.
Tell me more about the Windows 10 program.
Send anonymous usage data to Microsoft for the Windows 10 Kits?
Yes
No
* Participation applies to all Windows Kits installed on this computer.
Privacy Statement
Back
Next
Cancel


Windows Assessment and Deployment Kit - Windows 10
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You must accept the terms of this agreement to continue. If you do not accept the Microsoft Software License Terms, click Decline.
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MICROSOFT WINDOWS HARDWARE LAB KIT (HLK) FOR WINDOWS 10
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a. ADK.
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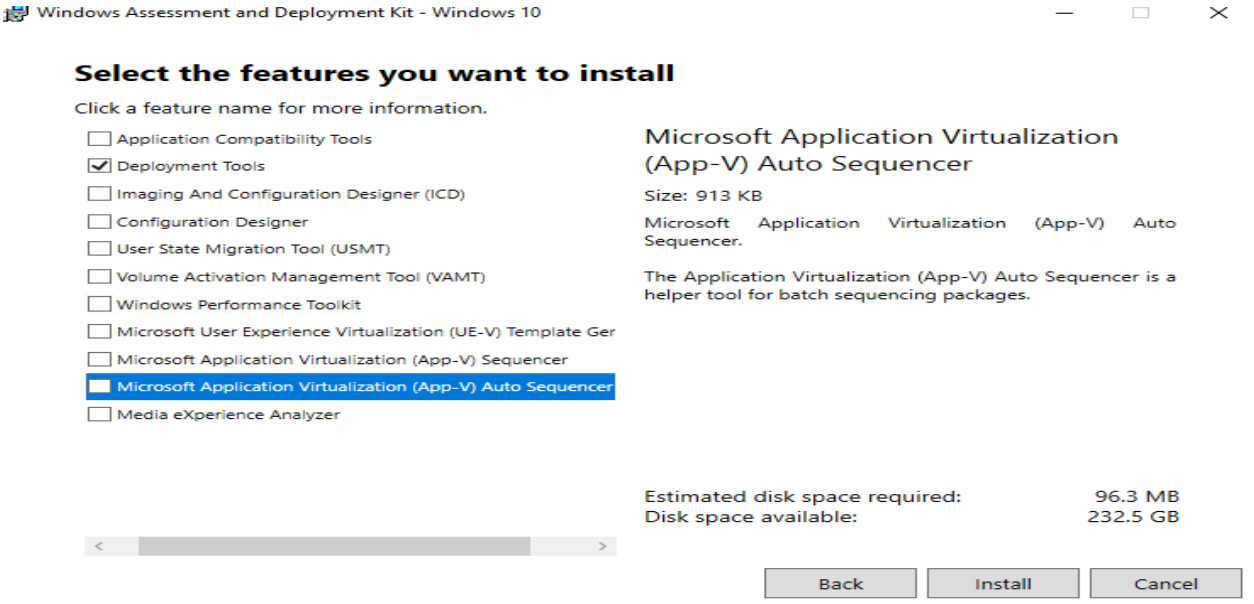
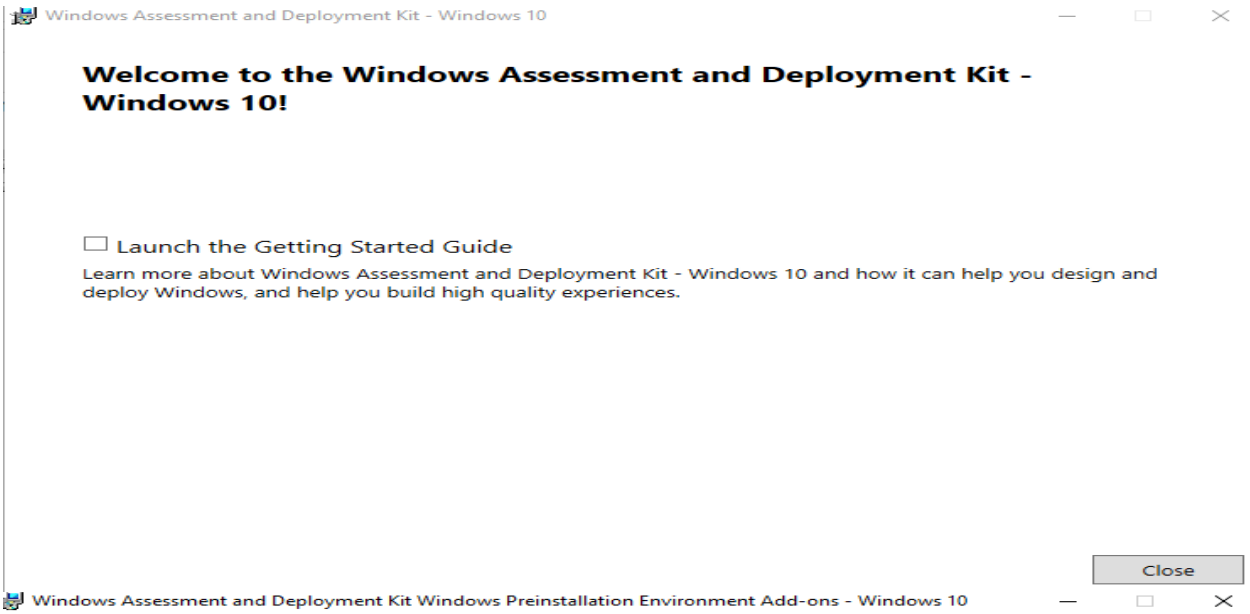
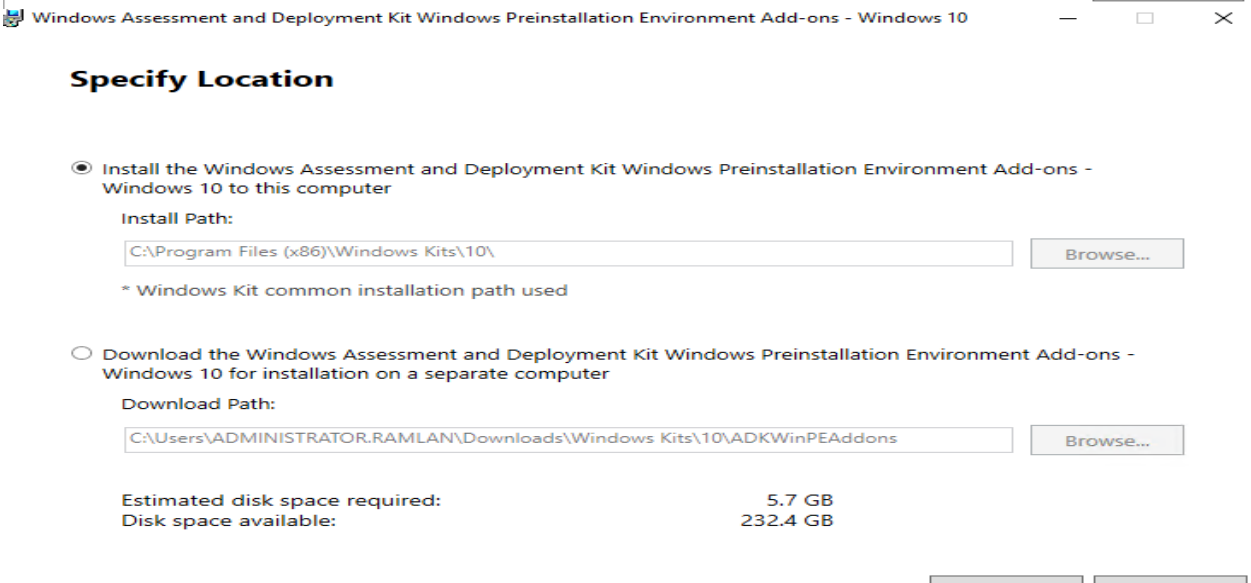
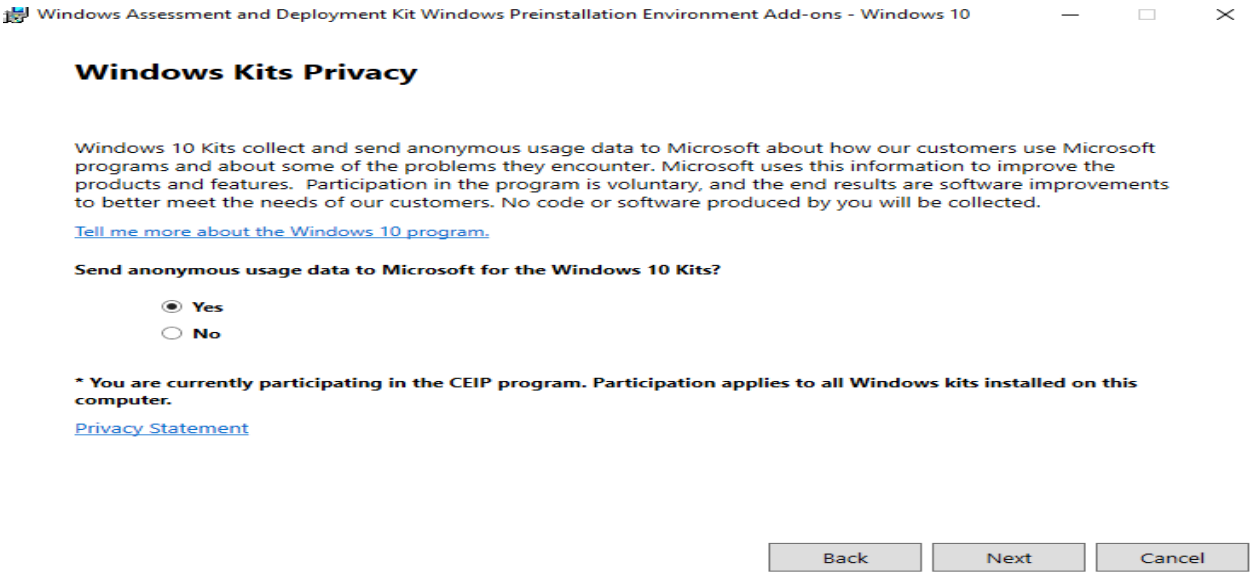

Windows Assessment and Deployment Kit - Windows 10
Select the features you want to install
Click a feature name for more information.
Application Compatibility Tools
Deployment Tools
Imaging And Configuration Designer (ICD)
Configuration Designer
User State Migration Tool (USMT)
Volume Activation Management Tool (VAMT)
Windows Performance Toolkit
Microsoft User Experience Virtualization (UE-V) Template Ger
Microsoft Application Virtualization (App-V) Sequencer
Microsoft Application Virtualization (App-V) Auto Sequencer
Media eXperience Analyzer
Microsoft Application Virtualization (App-V) Auto Sequencer
Size: 913 KB
Microsoft Application Virtualization (App-V) Auto Sequencer.
The Application Virtualization (App-V) Auto Sequencer is a helper tool for batch sequencing packages.
Estimated disk space required: 96.3 MB
Disk space available: 232.5 GB
Back
Install
Cancel


Windows Assessment and Deployment Kit - Windows 10
Welcome to the Windows Assessment and Deployment Kit - Windows 10!
Launch the Getting Started Guide
Learn more about Windows Assessment and Deployment Kit - Windows 10 and how it can help you design and deploy Windows, and help you build high quality experiences.
Close


Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10
Specify Location
Install the Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10 to this computer
Install Path:
C:\Program Files (x86)\Windows Kits\10\
Browse...
* Windows Kit common installation path used
Download the Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10 for installation on a separate computer
Download Path:
C:\Users\ADMINISTRATOR.RAMLAN\Downloads\Windows Kits\10\ADKWinPEAddons
Browse...
Estimated disk space required: 5.7 GB
Disk space available: 232.4 GB
Next
Cancel


Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10
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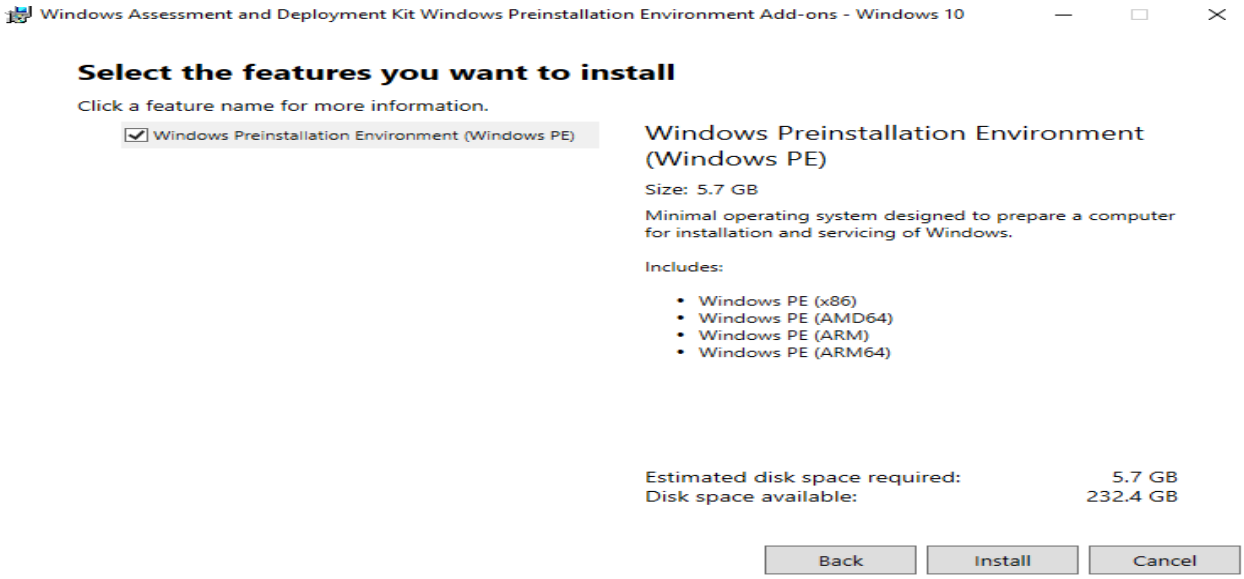
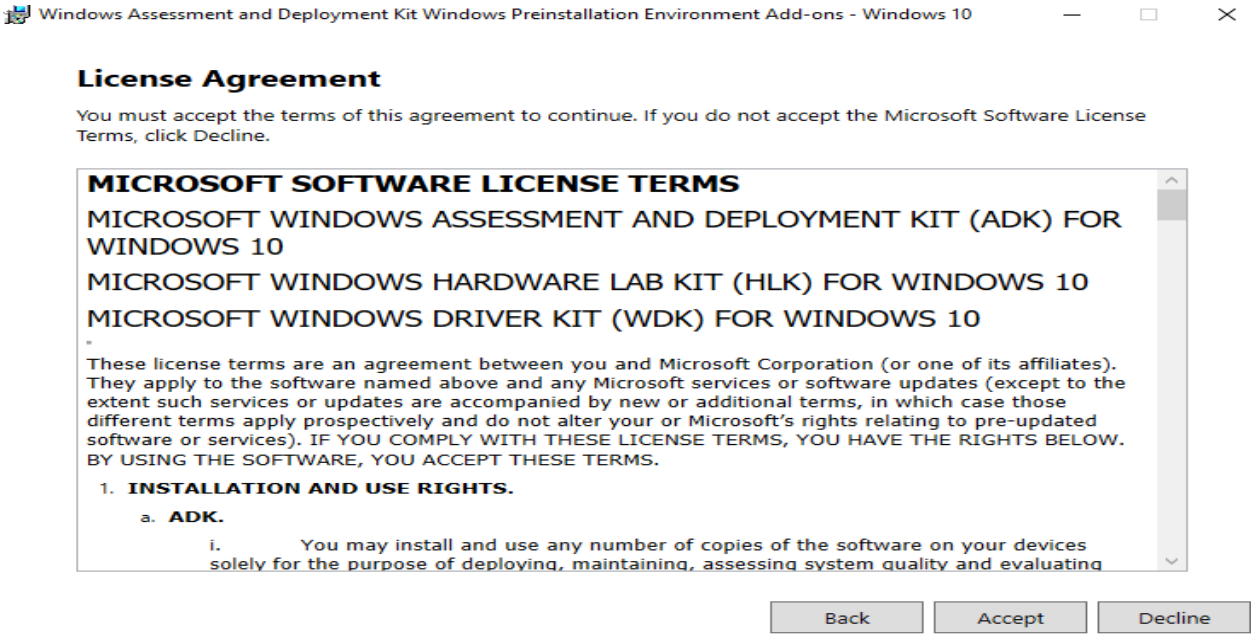
Tell me more about the Windows 10 program.
Send anonymous usage data to Microsoft for the Windows 10 Kits?
Yes
No
* You are currently participating in the CEIP program. Participation applies to all Windows kits installed on this computer.
Privacy Statement
Back
Next
Cancel


Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10
Select the features you want to install
Click a feature name for more information.
Windows Preinstallation Environment (Windows PE)
Windows Preinstallation Environment (Windows PE)
Size: 5.7 GB
Minimal operating system designed to prepare a computer for installation and servicing of Windows.
Includes:
Windows PE (x86)
Windows PE (AMD64)
Windows PE (ARM)
Windows PE (ARM64)
Estimated disk space required: 5.7 GB
Disk space available: 232.4 GB
Back
Install
Cancel


Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10
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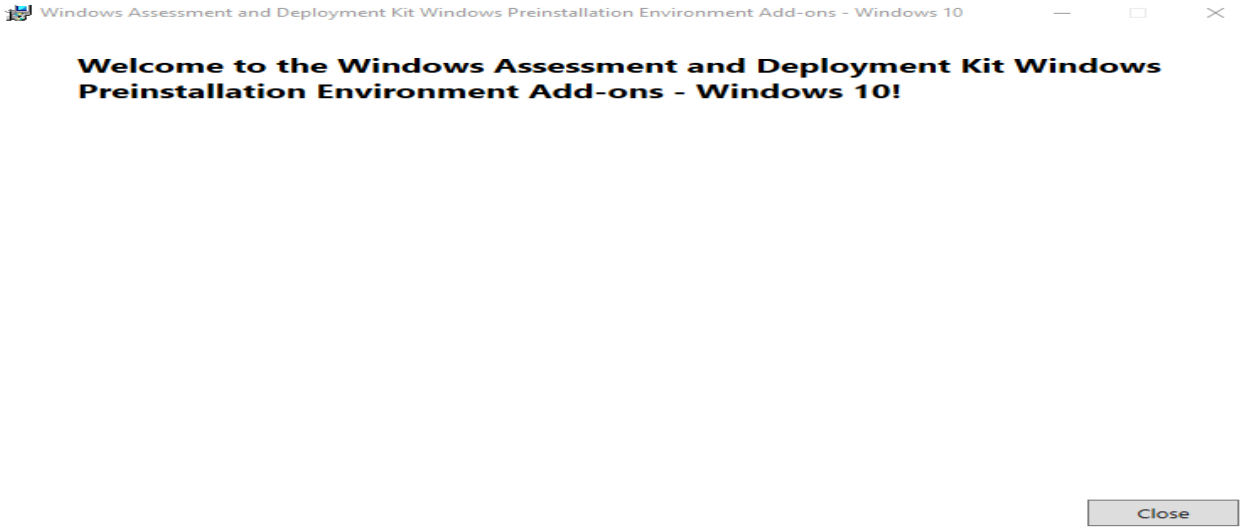
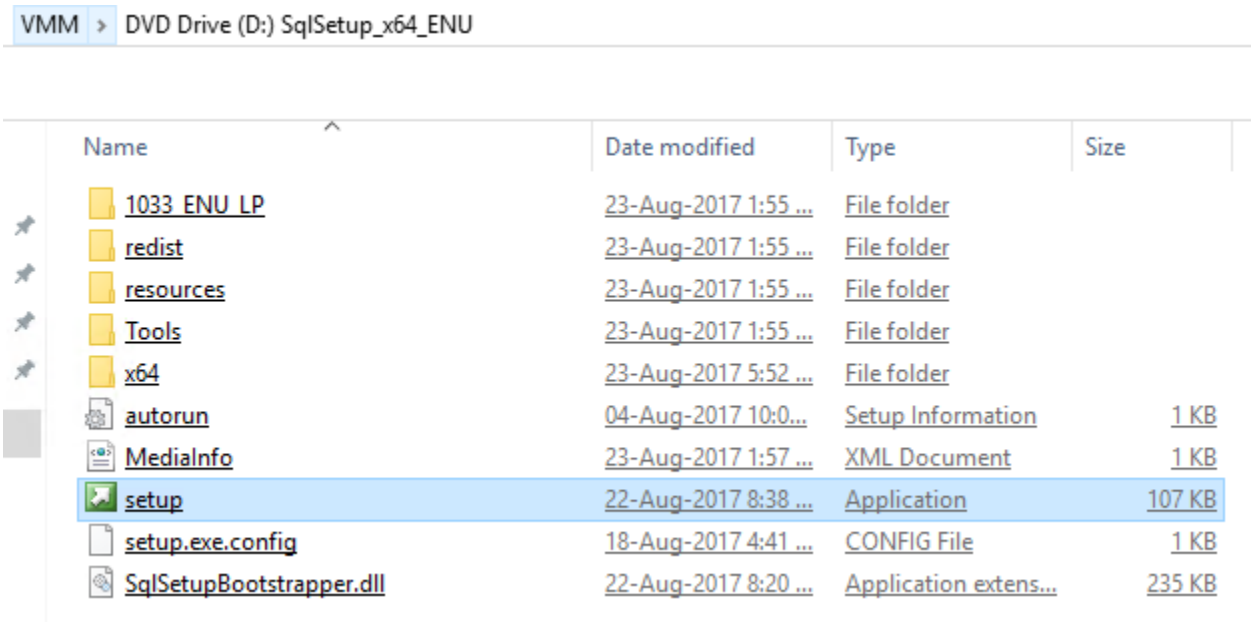
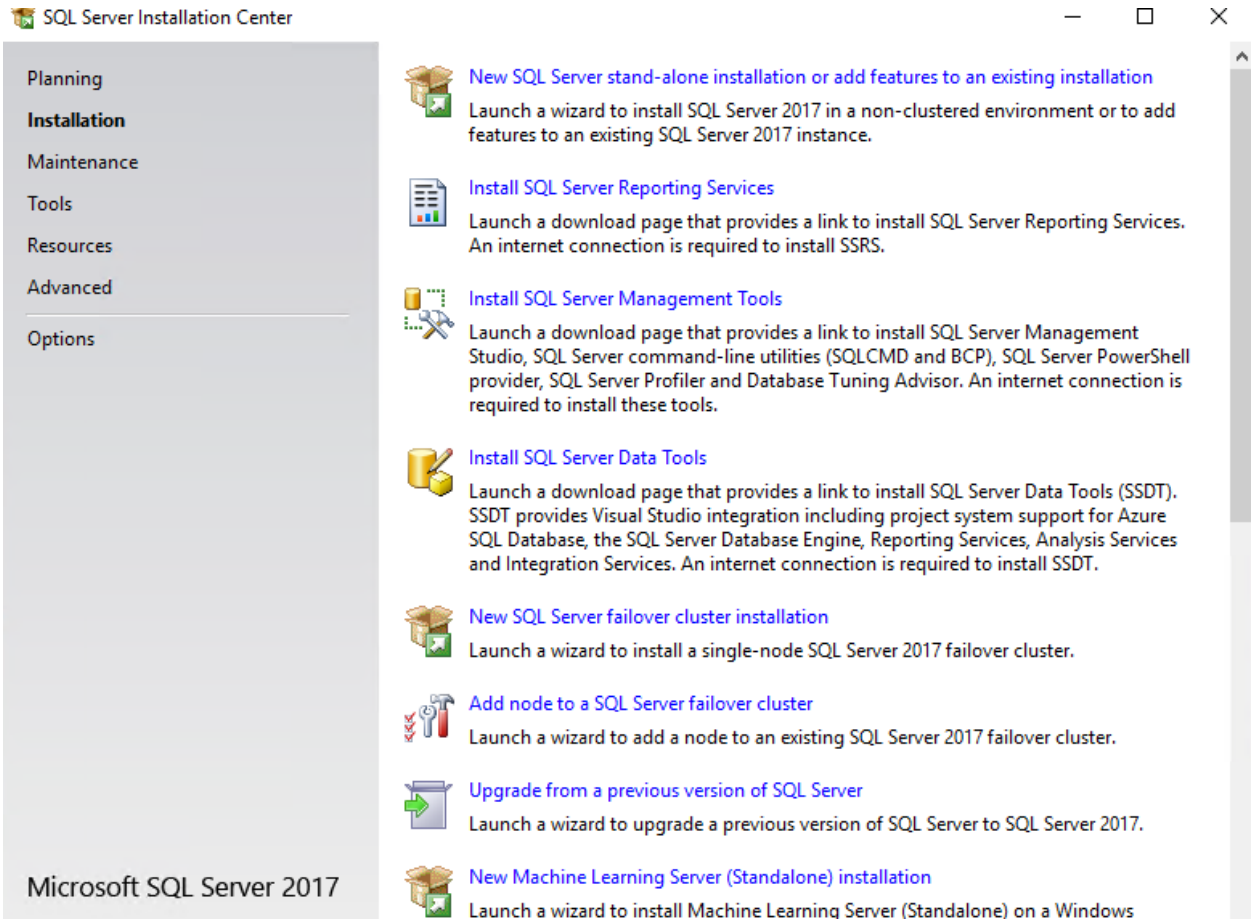

Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10
Welcome to the Windows Assessment and Deployment Kit Windows Preinstallation Environment Add-ons - Windows 10!
Close

SQL 2017:


VMM
DVD Drive (D:) SqlSetup_x64_ENU
Name
Date modified
Type
Size
1033_ENU_LP
23-Aug-2017 1:55 ...
File folder
redist
23-Aug-2017 1:55 ...
File folder
resources
23-Aug-2017 1:55 ...
File folder
Tools
23-Aug-2017 1:55 ...
File folder
x64
23-Aug-2017 5:52 ...
File folder
autorun
04-Aug-2017 10:0...
Setup Information
1 KB
MediaInfo
23-Aug-2017 1:57 ...
XML Document
1 KB
setup
22-Aug-2017 8:38 ...
Application
107 KB
setup.exe.config
18-Aug-2017 4:41 ...
CONFIG File
1 KB
SqlSetupBootstrapper.dll
22-Aug-2017 8:20 ...
Application extens...
235 KB


SQL Server Installation Center
Planning
Installation
Maintenance
Tools
Resources
Advanced
Options
Microsoft SQL Server 2017
New SQL Server stand-alone installation or add features to an existing installation
Launch a wizard to install SQL Server 2017 in a non-clustered environment or to add features to an existing SQL Server 2017 instance.
Install SQL Server Reporting Services
Launch a download page that provides a link to install SQL Server Reporting Services. An internet connection is required to install SSRS.
Install SQL Server Management Tools
Launch a download page that provides a link to install SQL Server Management 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 2017 failover cluster.
Add node to a SQL Server failover cluster
Launch a wizard to add a node to an existing SQL Server 2017 failover cluster.
Upgrade from a previous version of SQL Server
Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2017.
New Machine Learning Server (Standalone) installation
Launch a wizard to install Machine Learning Server (Standalone) on a Windows

SQL Server 2017 Setup

Product Key

Specify the edition of SQL Server 2017 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 2017 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]

< Back | Next > | Cancel

SQL Server 2017 Setup

License Terms

To install SQL Server 2017, 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

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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

Copy Print

☑ I accept the license terms.

SQL Server 2017 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 2017 data processing and privacy controls, please see the Privacy Statement.

< Back | Next > | Cancel

SQL Server 2017 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 2017. 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

< Back | Next > | Cancel

SQL Server 2017 Setup

Install Rules

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

- 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

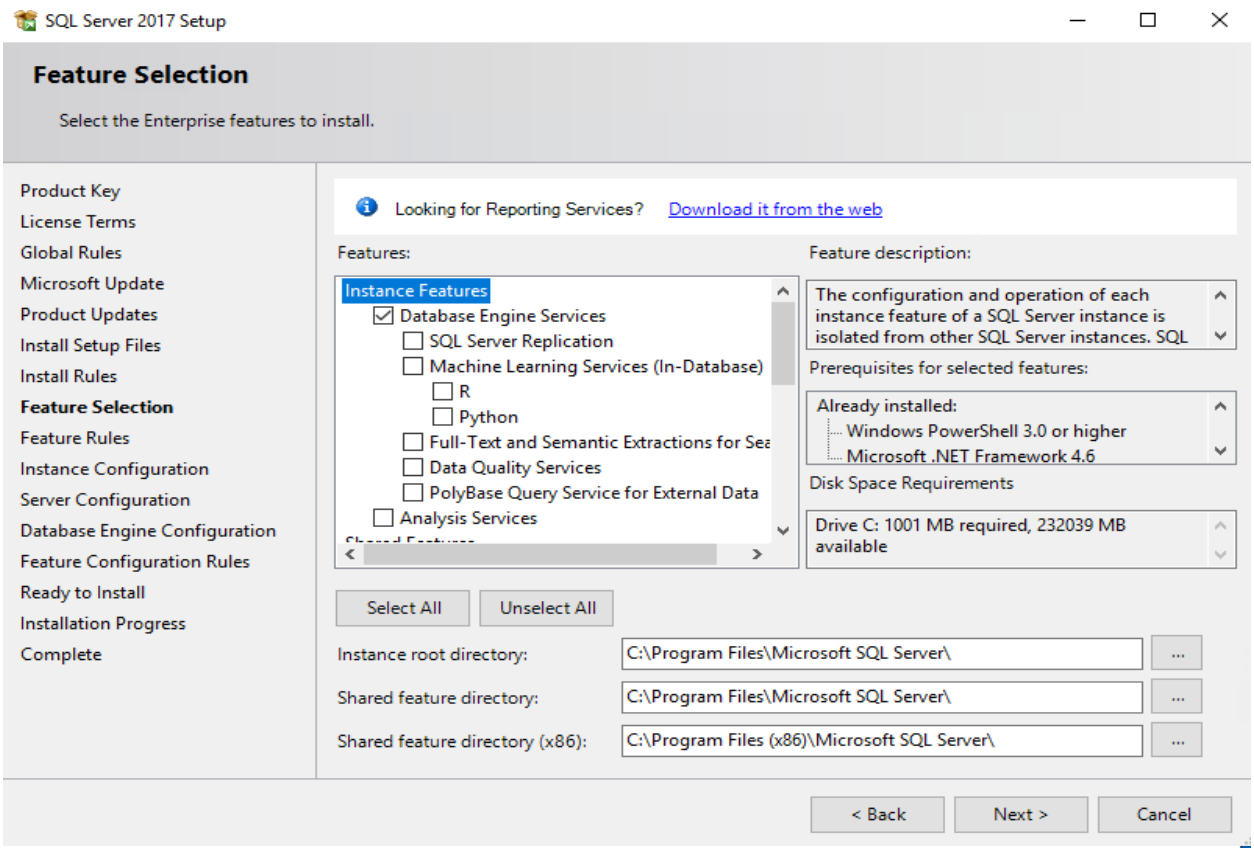
Operation completed. Passed: 3. Failed 0. Warning 1. Skipped 0.

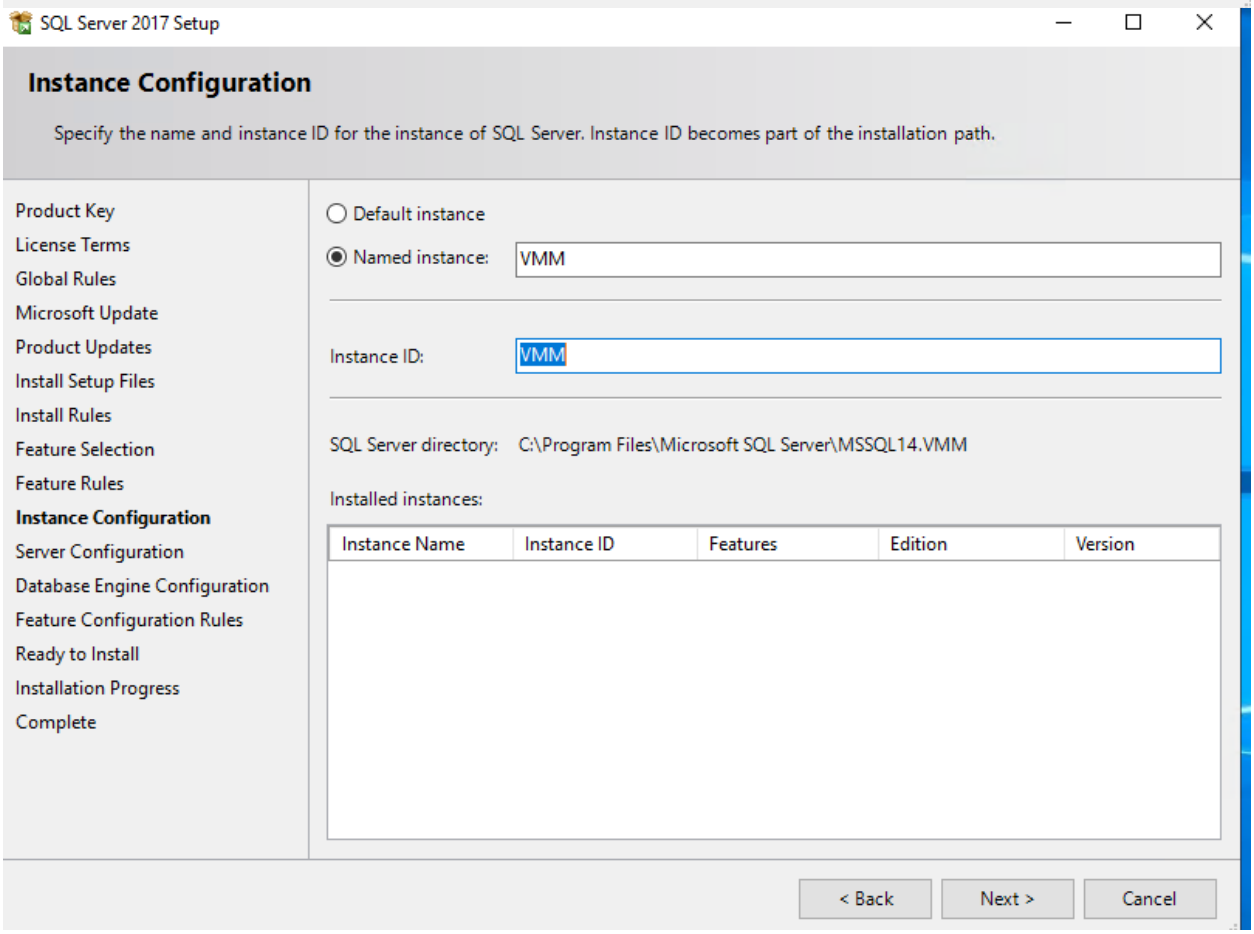
Hide details << | Re-run

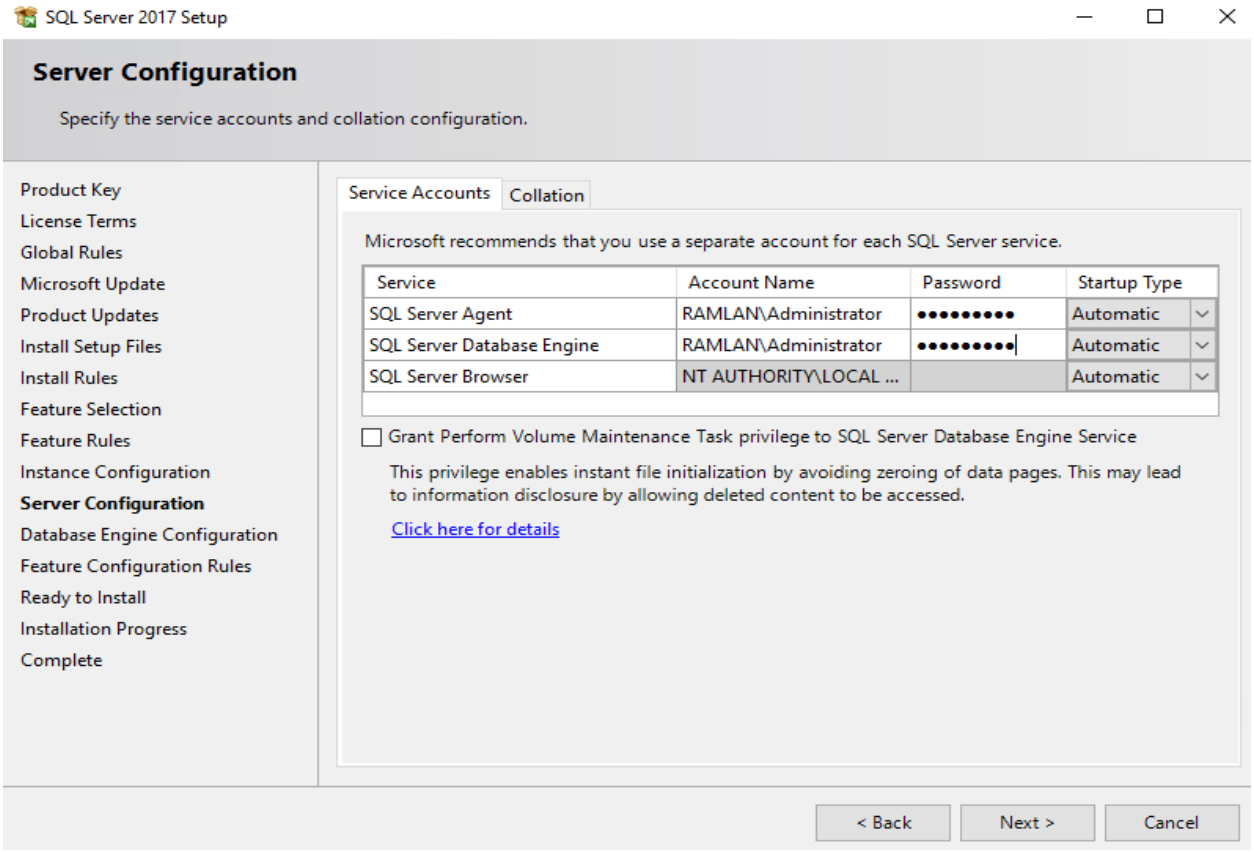
View detailed report

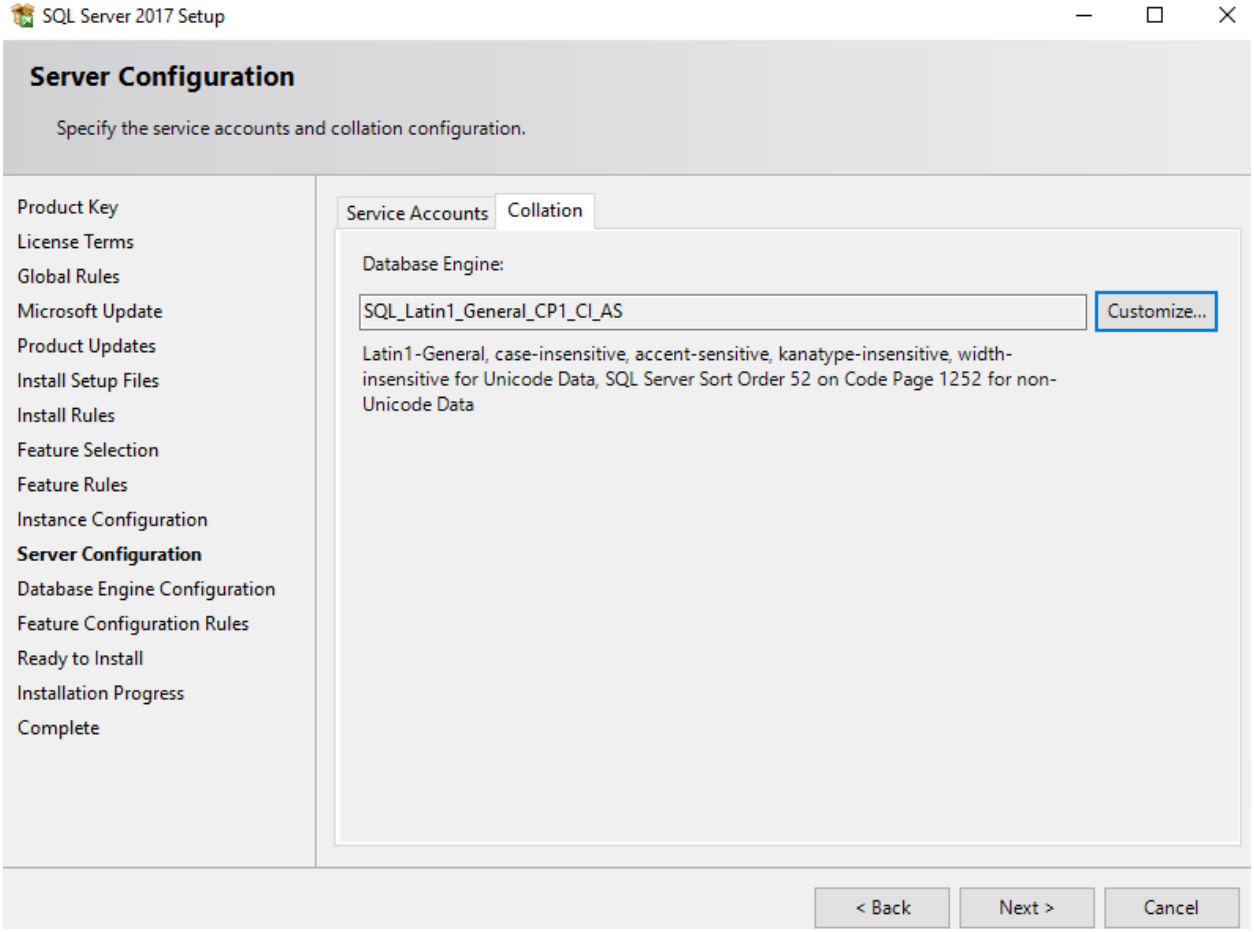
Rule	Status
Fusion Active Template Library (ATL)	Passed
Consistency validation for SQL Server registry keys	Passed
Computer domain controller	Passed
Windows Firewall	Warning

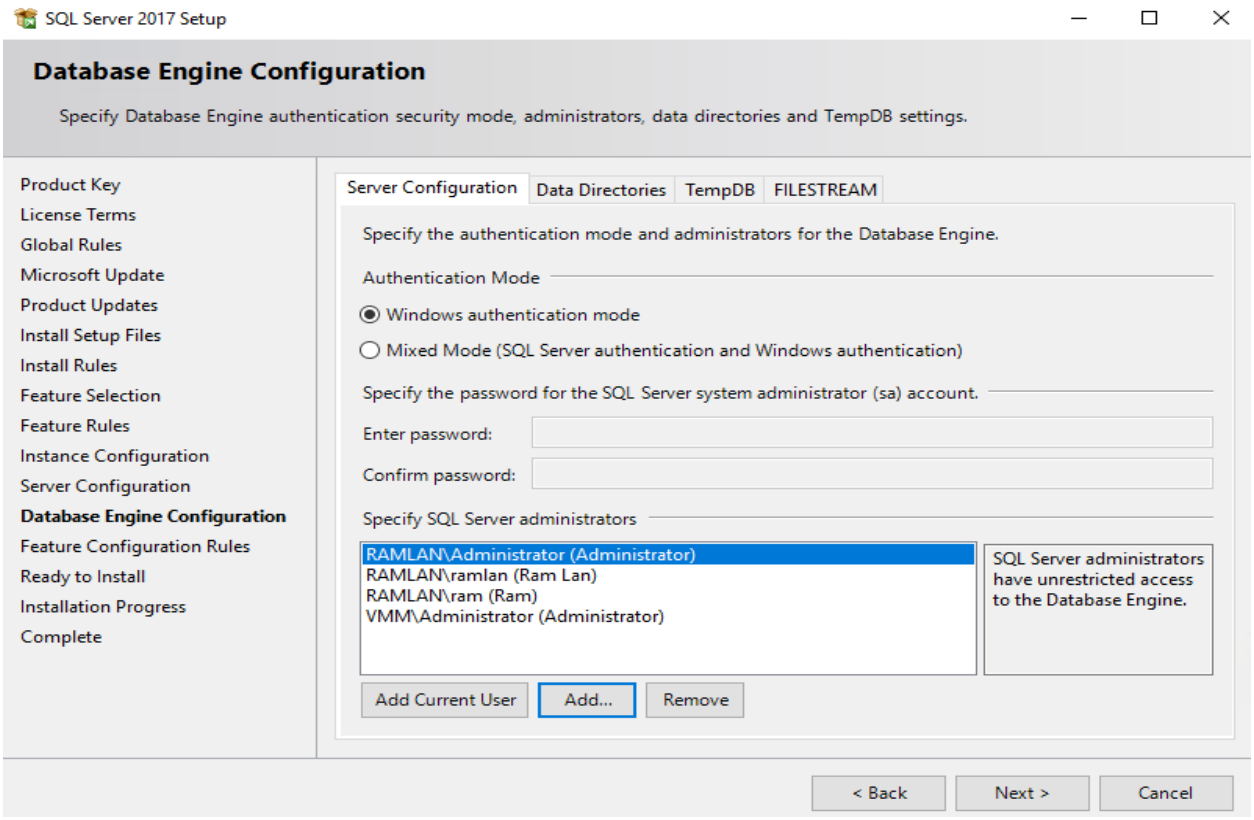
< Back | Next > | Cancel

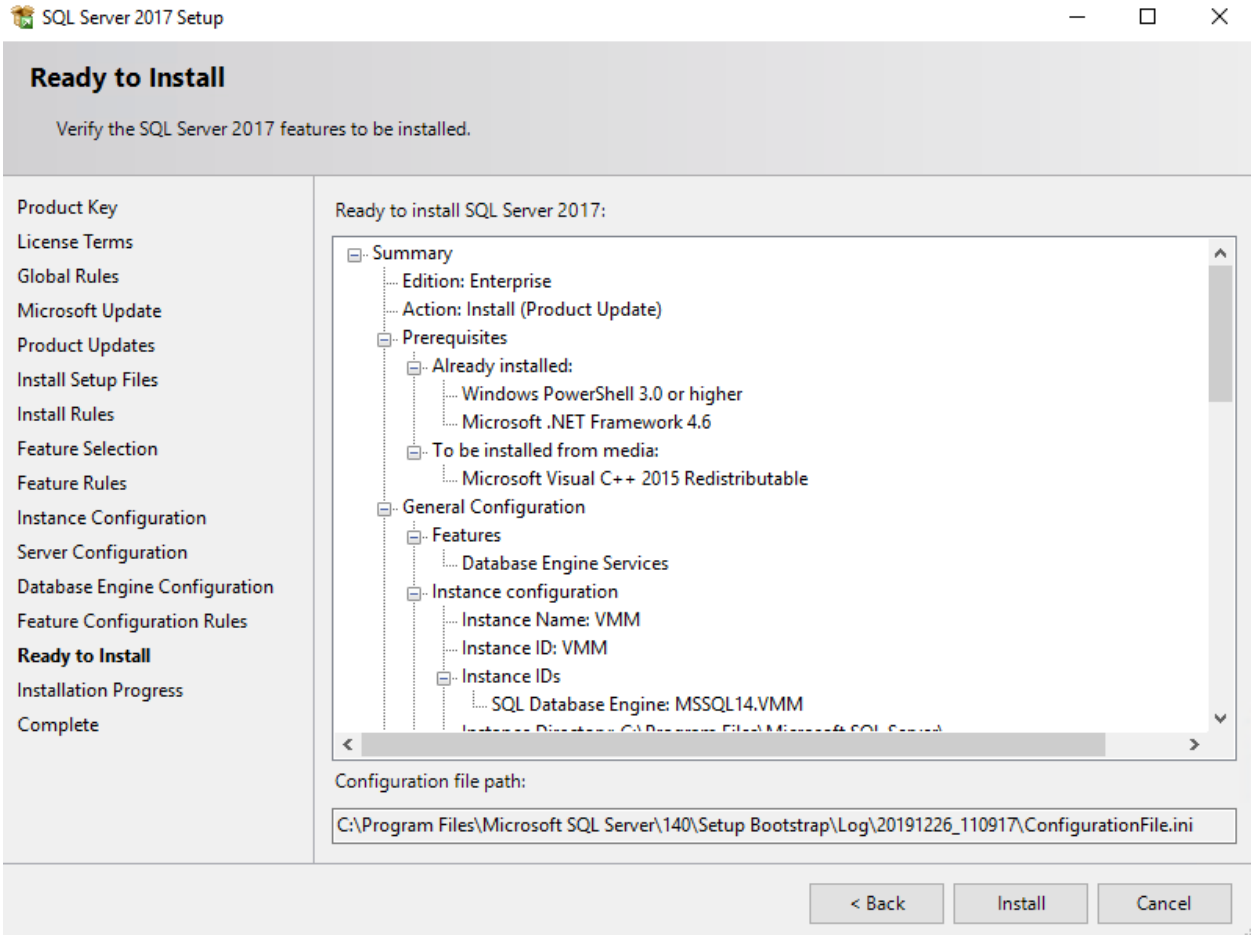

SQL Server 2017 Setup
Feature Selection
Select the Enterprise features to install.
Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Looking for Reporting Services?
Download it from the web
Features:
Instance Features
Database Engine Services
SQL Server Replication
Machine Learning Services (In-Database)
R
Python
Full-Text and Semantic Extractions for Sea
Data Quality Services
PolyBase Query Service for External Data
Analysis Services
Feature description:
The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL
Prerequisites for selected features:
Already installed:
Windows PowerShell 3.0 or higher
Microsoft .NET Framework 4.6
Disk Space Requirements
Drive C: 1001 MB required, 232039 MB available
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\
< Back
Next >
Cancel

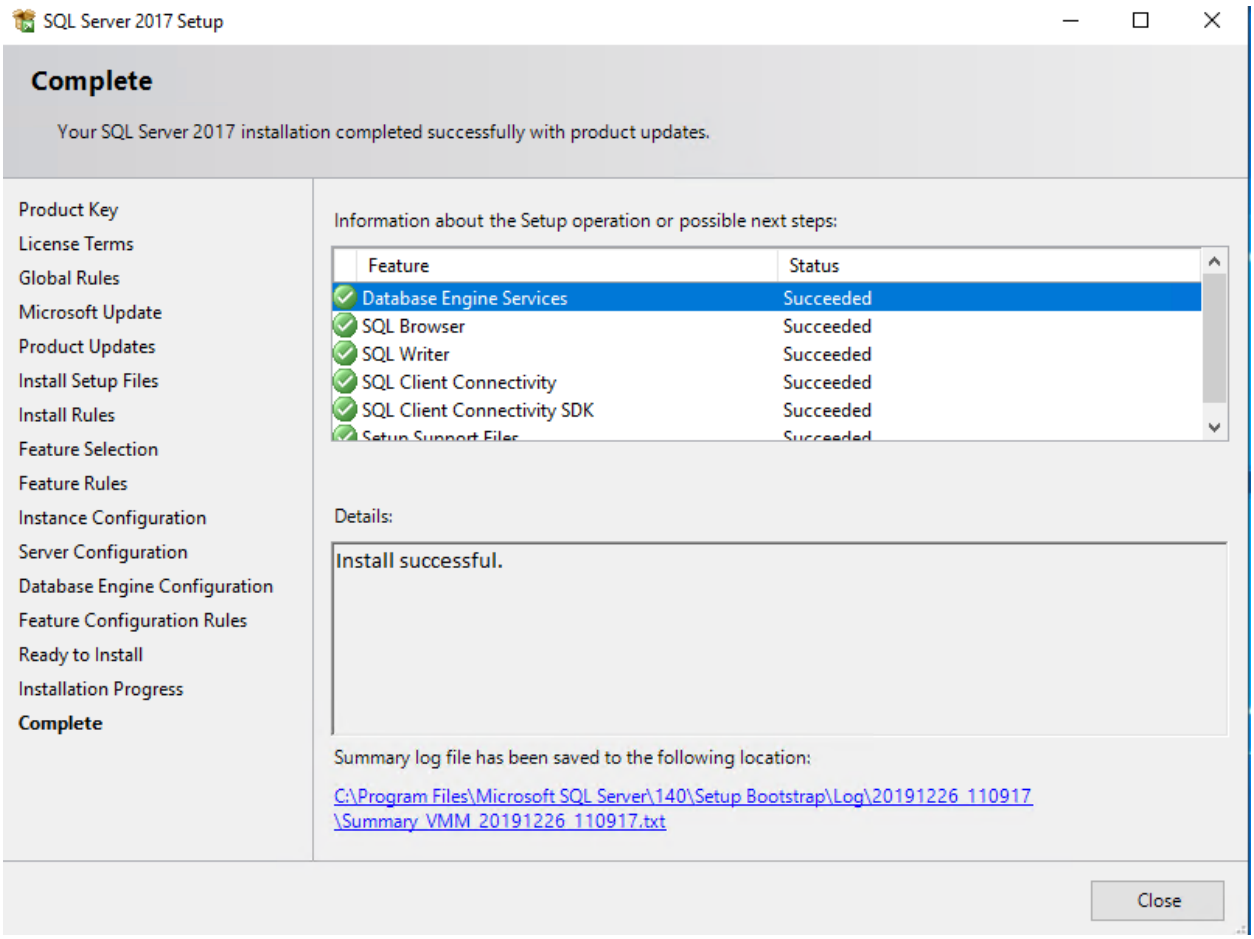

SQL Server 2017 Setup
Instance Configuration
Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.
Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Default instance
Named instance:
VMM
Instance ID:
VMM
SQL Server directory:
C:\Program Files\Microsoft SQL Server\MSSQL14.VMM
Installed instances:
Instance Name
Instance ID
Features
Edition
Version
< Back
Next >
Cancel


SQL Server 2017 Setup
Server Configuration
Specify the service accounts and collation configuration.
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
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\Administrator
Automatic
SQL Server Database Engine
RAMLAN\Administrator
Automatic
SQL Server Browser
NT AUTHORITY\LOCAL ...
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
< Back
Next >
Cancel

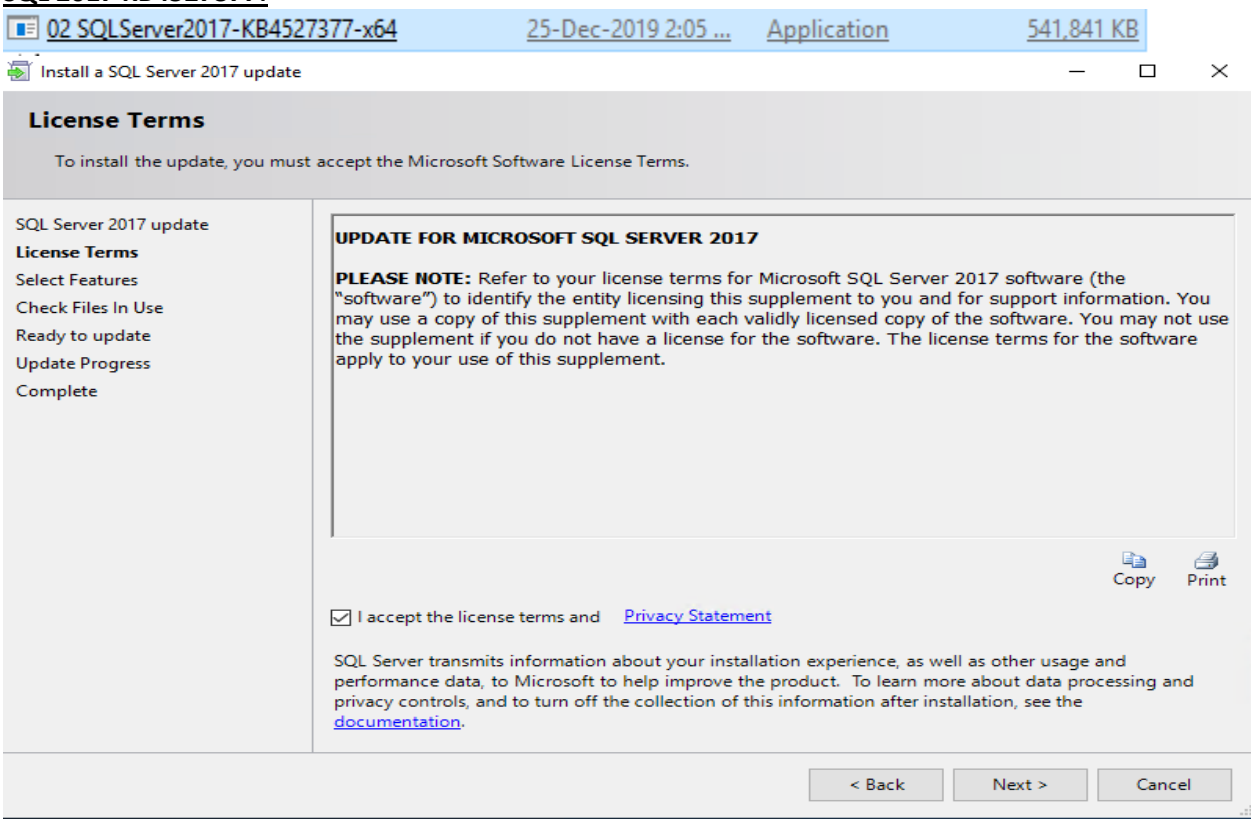

SQL Server 2017 Setup
Server Configuration
Specify the service accounts and collation configuration.
Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
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
< Back
Next >
Cancel

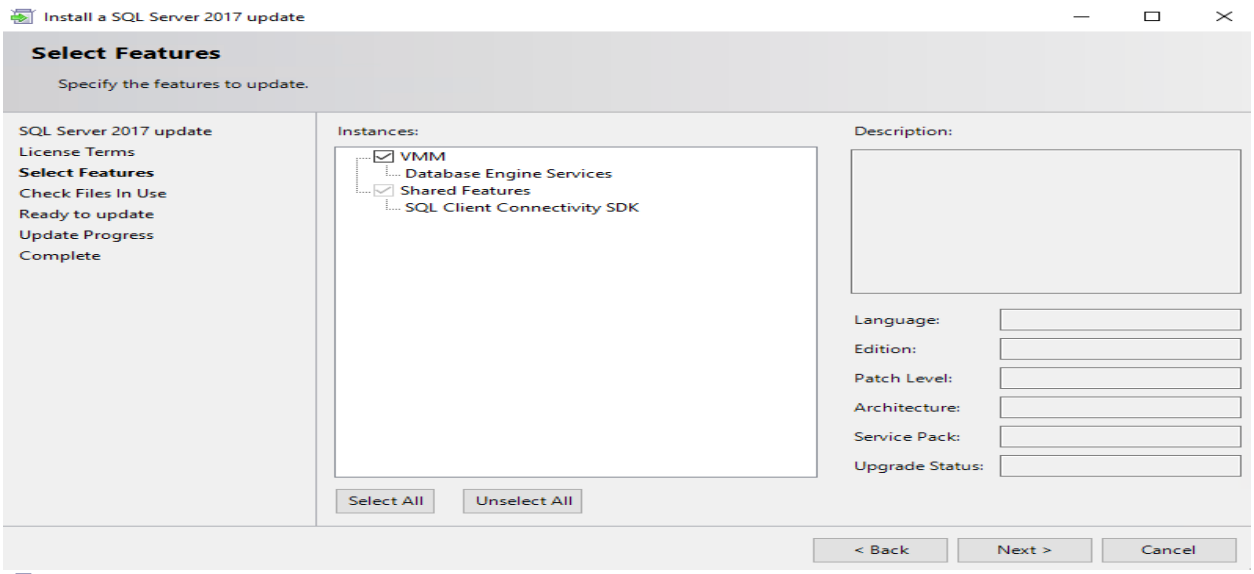

SQL Server 2017 Setup
Database Engine Configuration
Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.
Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
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\ramlan (Ram Lan)
RAMLAN\ram (Ram)
VMM\Administrator (Administrator)
SQL Server administrators have unrestricted access to the Database Engine.
Add Current User
Add...
Remove
< Back
Next >
Cancel

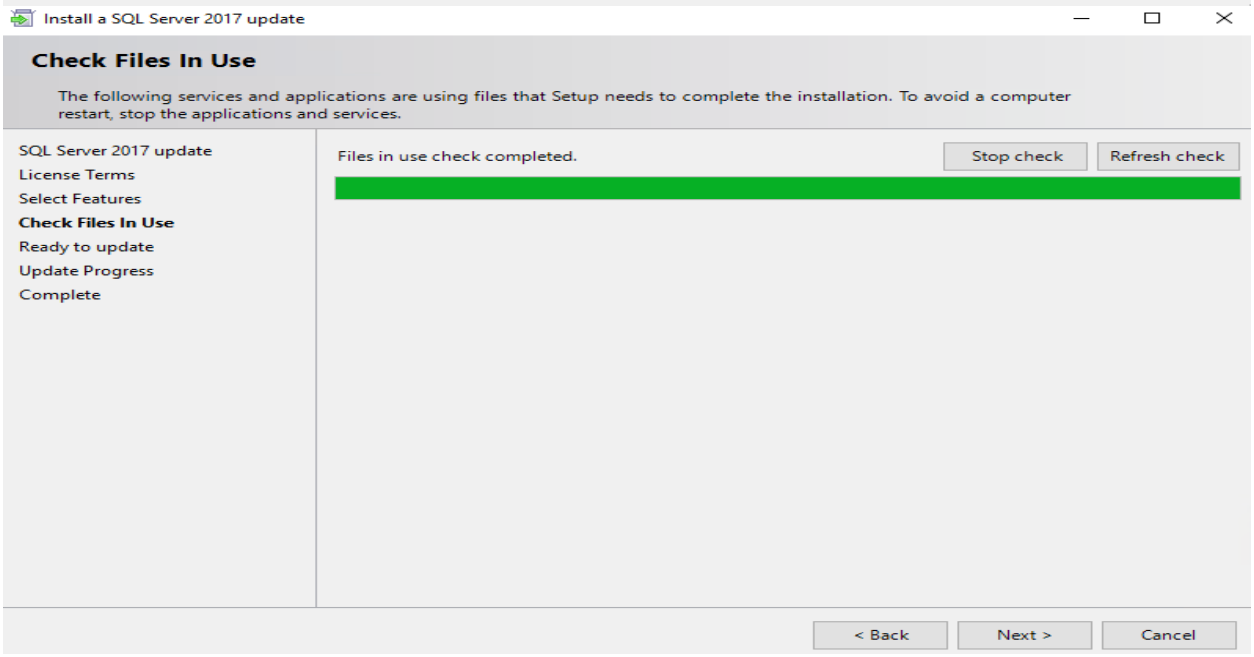

SQL Server 2017 Setup
Ready to Install
Verify the SQL Server 2017 features to be installed.
Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Ready to install SQL Server 2017:
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 C++ 2015 Redistributable
General Configuration
Features
Database Engine Services
Instance configuration
Instance Name: VMM
Instance ID: VMM
Instance IDs
SQL Database Engine: MSSQL14.VMM
Configuration file path:
C:\Program Files\Microsoft SQL Server\140\Setup Bootstrap\Log\20191226_110917\ConfigurationFile.ini
< Back
Install
Cancel

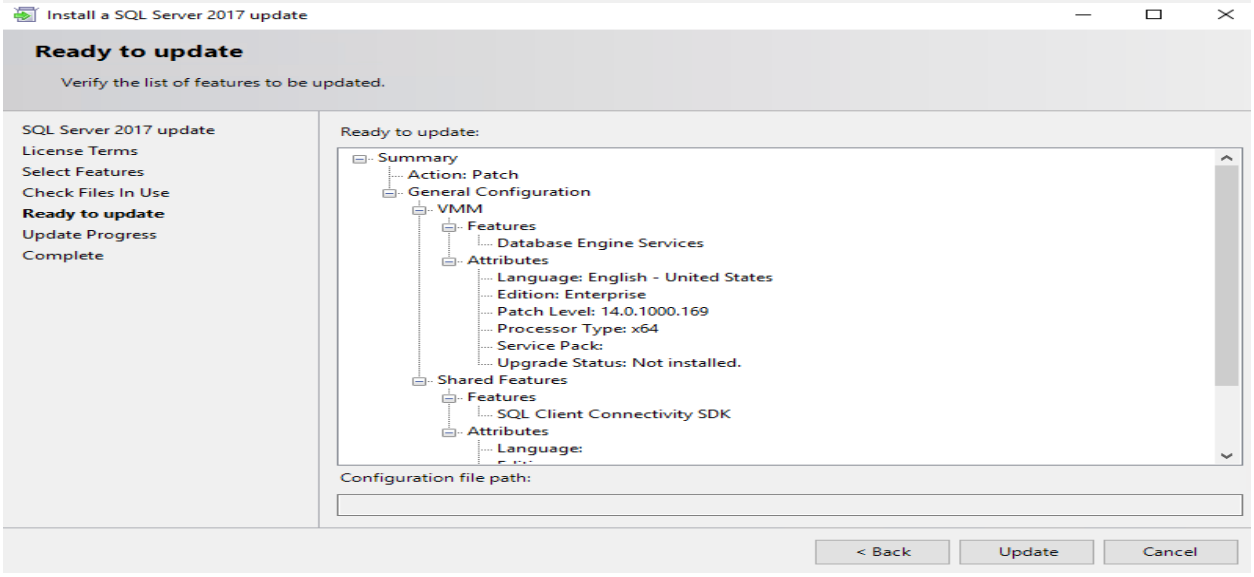


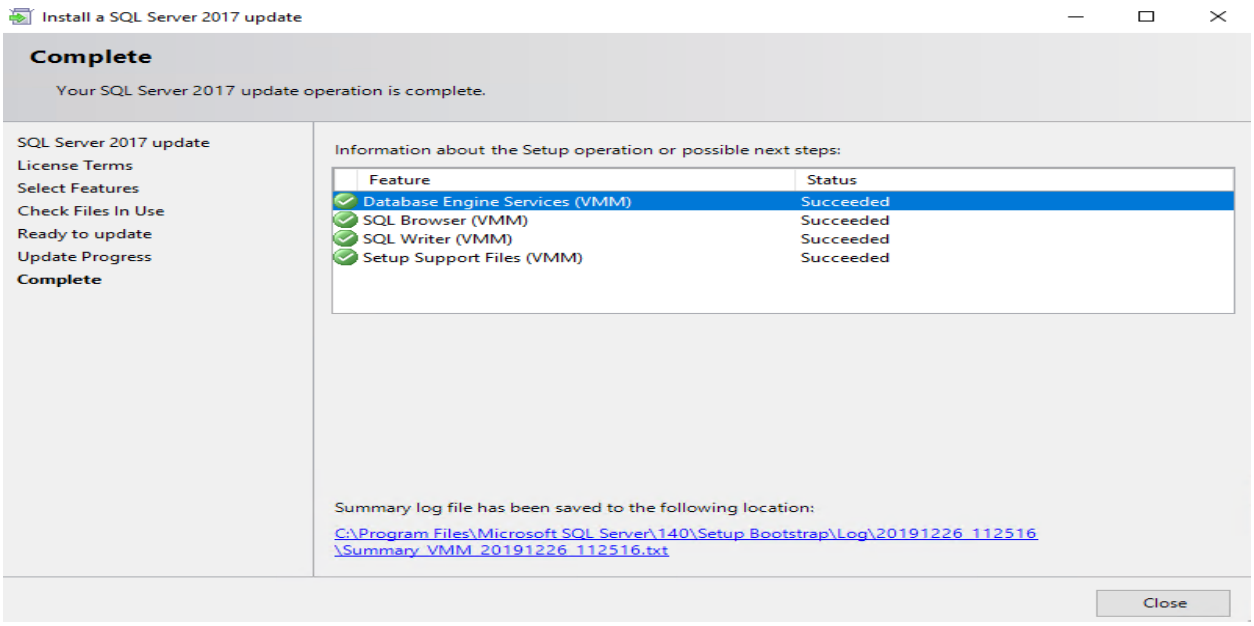
SQL 2017 KB4527377:



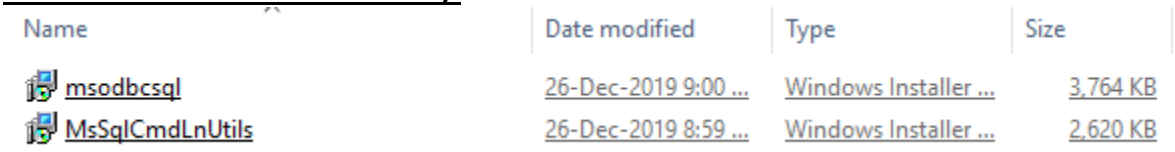

Install a SQL Server 2017 update
Select Features
Specify the features to update.
SQL Server 2017 update
License Terms
Select Features
Check Files In Use
Ready to update
Update Progress
Complete
Instances:
VMM
Database Engine Services
Shared Features
SQL Client Connectivity SDK
Description:
Language:
Edition:
Patch Level:
Architecture:
Service Pack:
Upgrade Status:
Select All
Unselect All
< Back
Next >
Cancel

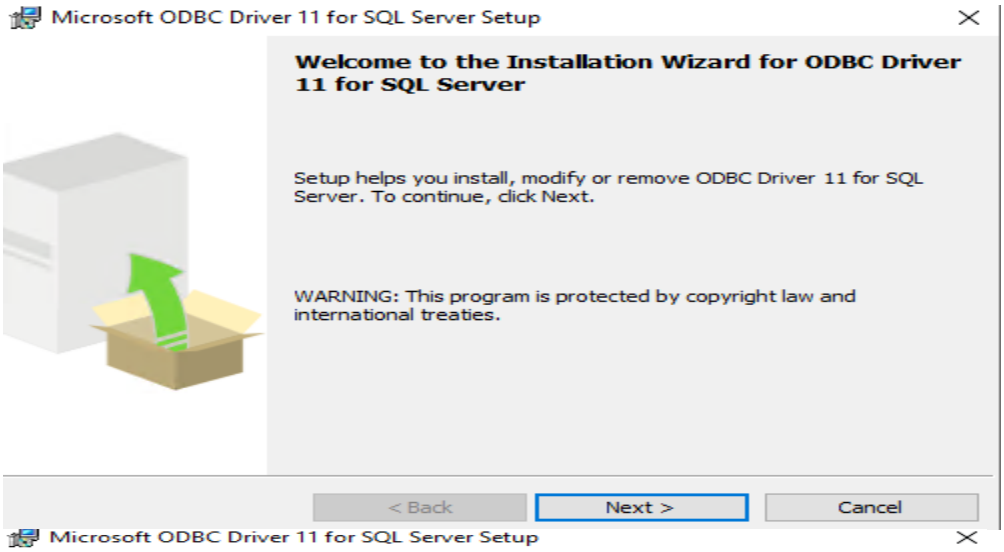

Install a SQL Server 2017 update
Check Files In Use
The following services and applications are using files that Setup needs to complete the installation. To avoid a computer restart, stop the applications and services.
SQL Server 2017 update
License Terms
Select Features
Check Files In Use
Ready to update
Update Progress
Complete
Files in use check completed.
Stop check
Refresh check
< Back
Next >
Cancel

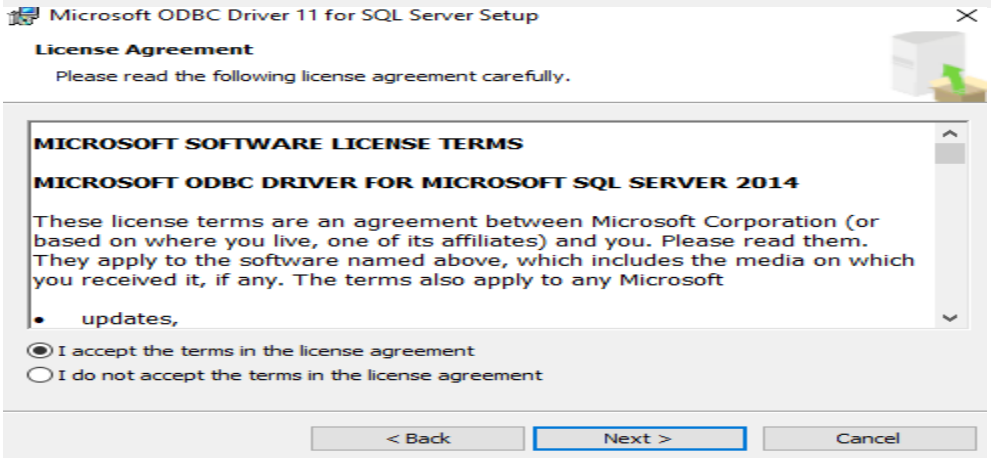

Install a SQL Server 2017 update
Ready to update
Verify the list of features to be updated.
SQL Server 2017 update
License Terms
Select Features
Check Files In Use
Ready to update
Update Progress
Complete
Ready to update:
Summary
Action: Patch
General Configuration
VMM
Features
Database Engine Services
Attributes
Language: English - United States
Edition: Enterprise
Patch Level: 14.0.1000.169
Processor Type: x64
Service Pack:
Upgrade Status: Not installed.
Shared Features
Features
SQL Client Connectivity SDK
Attributes
Language:
Configuration file path:
< Back
Update
Cancel

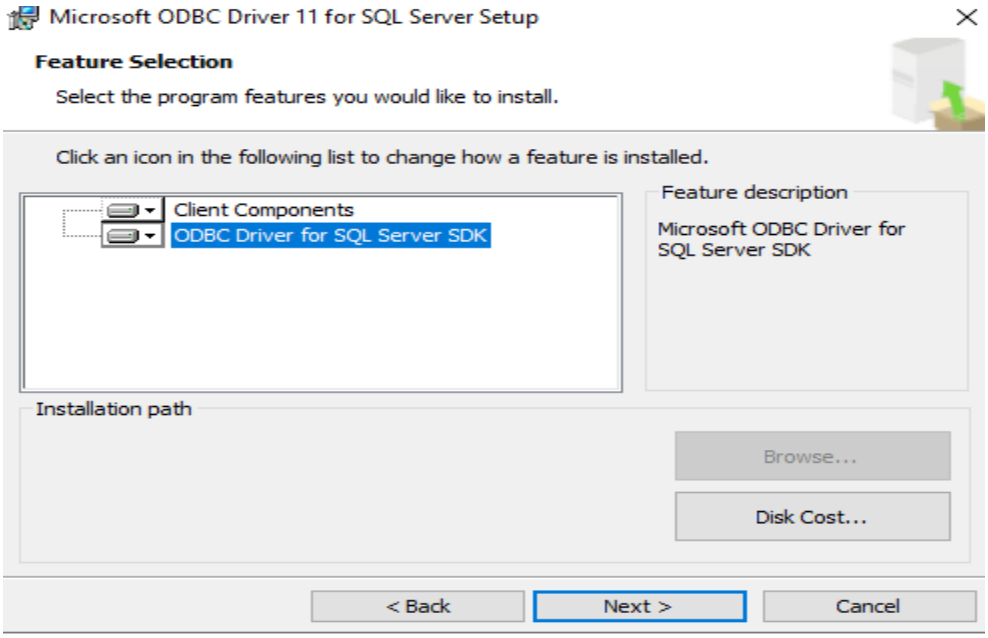


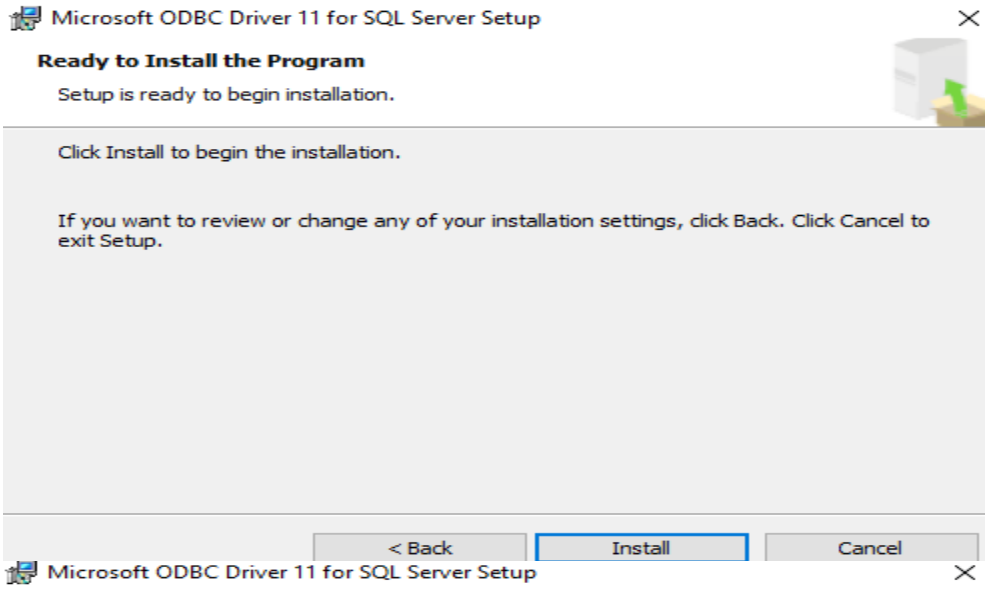
ODBC Driver & Command Line Utility:

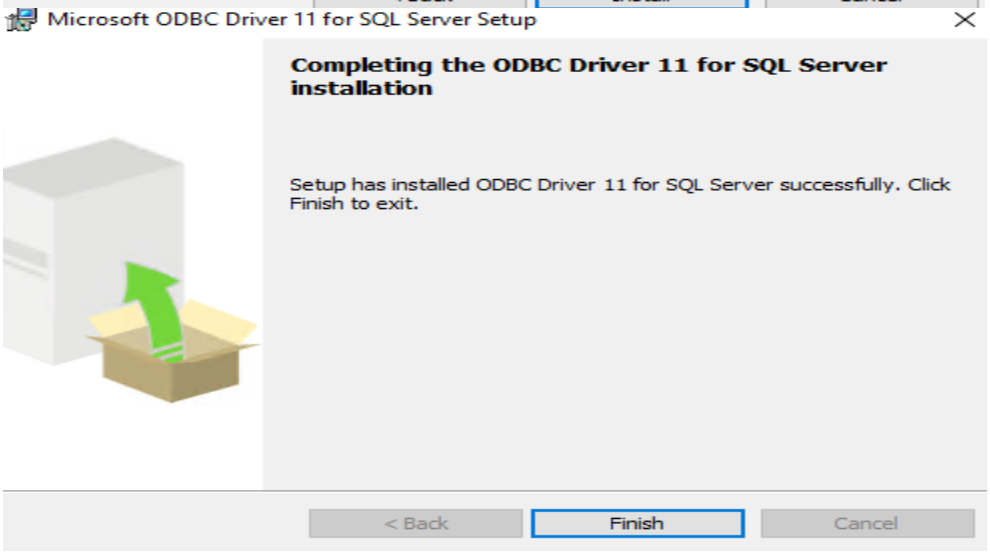


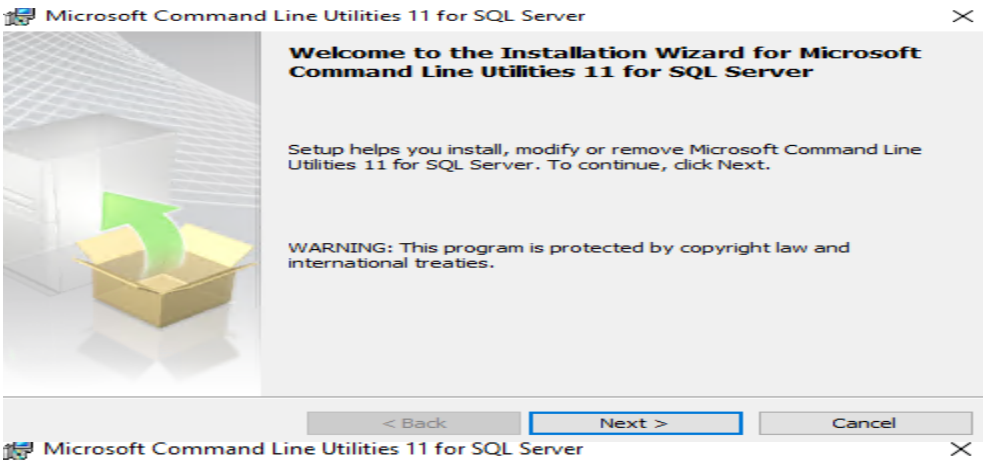


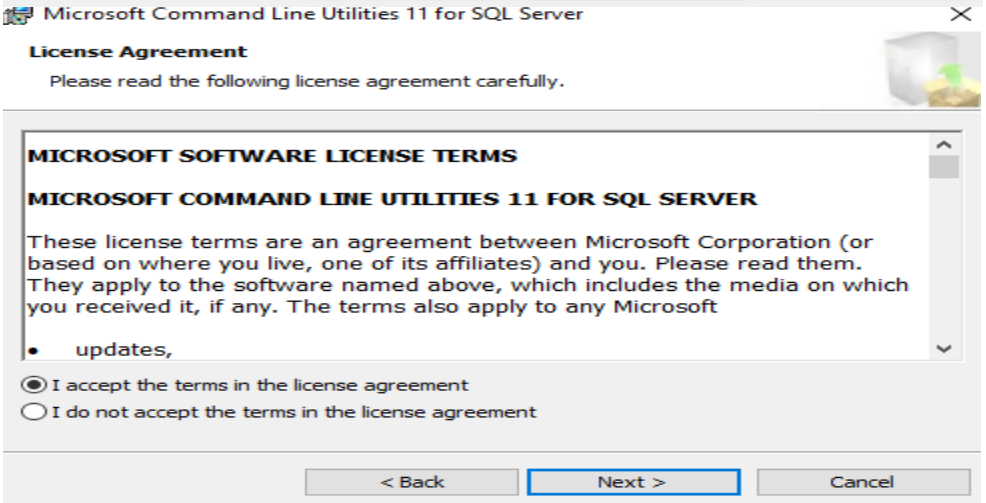


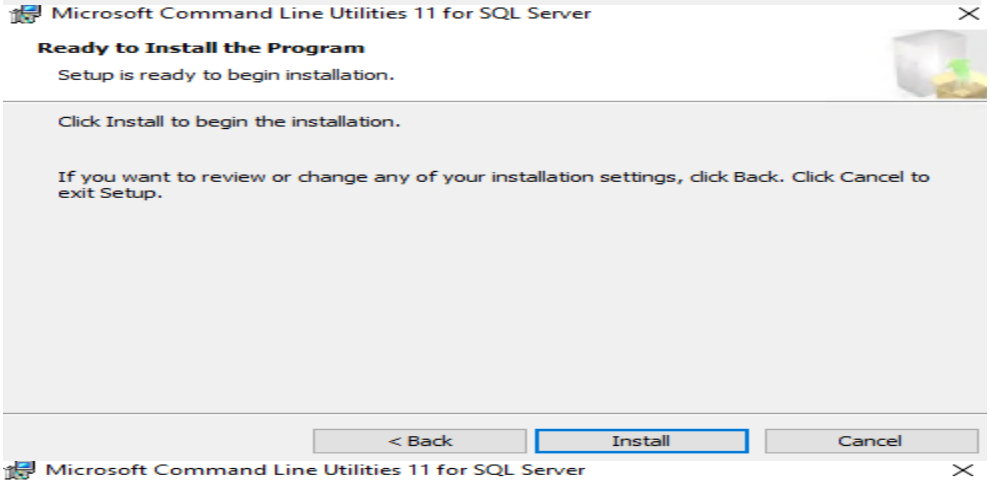

Microsoft ODBC Driver 11 for SQL Server Setup
Feature Selection
Select the program features you would like to install.
Click an icon in the following list to change how a feature is installed.
Client Components
ODBC Driver for SQL Server SDK
Feature description
Microsoft ODBC Driver for SQL Server SDK
Installation path
Browse...
Disk Cost...
< Back
Next >
Cancel

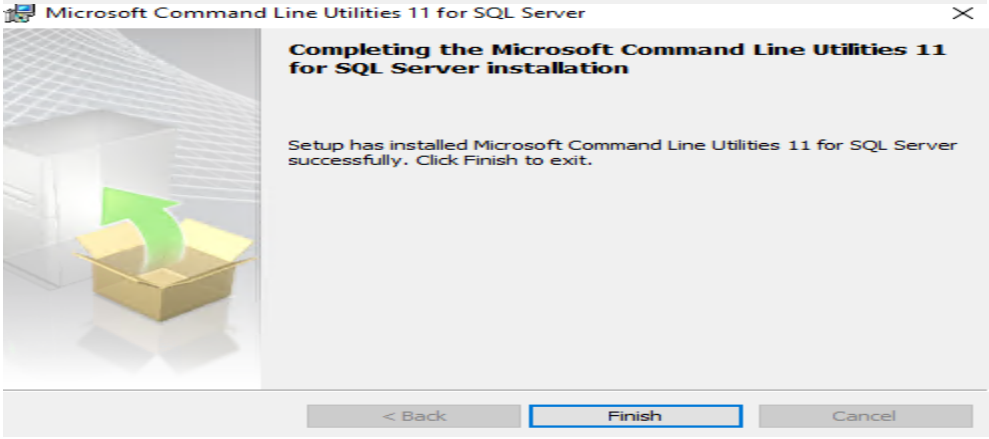

Microsoft ODBC Driver 11 for SQL Server Setup
Ready to Install the Program
Setup is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit Setup.
< Back
Install
Cancel


Microsoft ODBC Driver 11 for SQL Server Setup
Completing the ODBC Driver 11 for SQL Server installation
Setup has installed ODBC Driver 11 for SQL Server successfully. Click Finish to exit.
< Back
Finish
Cancel


Microsoft Command Line Utilities 11 for SQL Server
Welcome to the Installation Wizard for Microsoft Command Line Utilities 11 for SQL Server
Setup helps you install, modify or remove Microsoft Command Line Utilities 11 for SQL Server. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel


Microsoft Command Line Utilities 11 for SQL Server
License Agreement
Please read the following license agreement carefully.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT COMMAND LINE UTILITIES 11 FOR SQL SERVER
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,
I accept the terms in the license agreement
I do not accept the terms in the license agreement
< Back
Next >
Cancel


Microsoft Command Line Utilities 11 for SQL Server
Ready to Install the Program
Setup is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit Setup.
< Back
Install
Cancel


Microsoft Command Line Utilities 11 for SQL Server
Completing the Microsoft Command Line Utilities 11 for SQL Server installation
Setup has installed Microsoft Command Line Utilities 11 for SQL Server successfully. Click Finish to exit.
< Back
Finish
Cancel

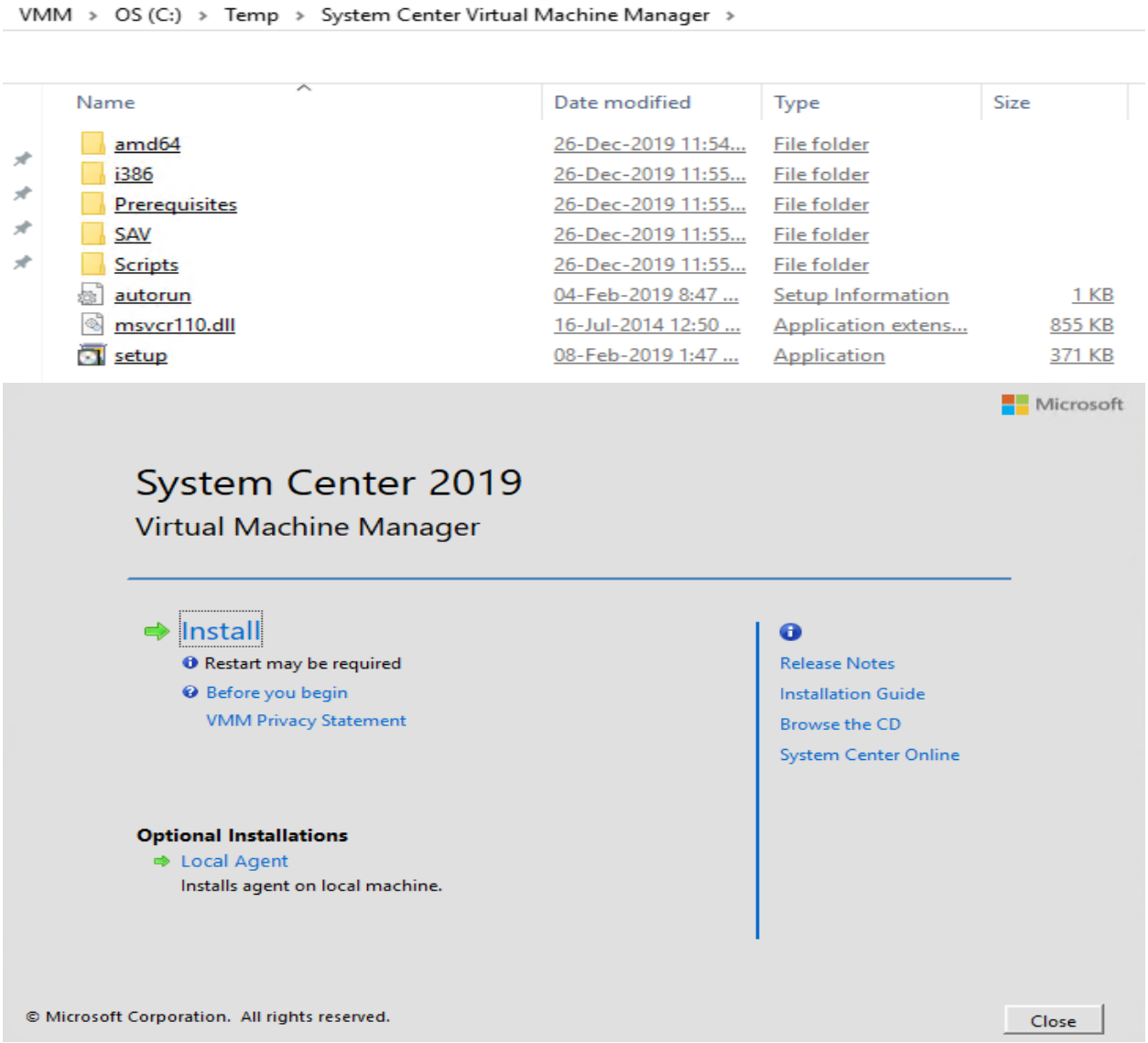
Group Managed Service Account (GMSA):

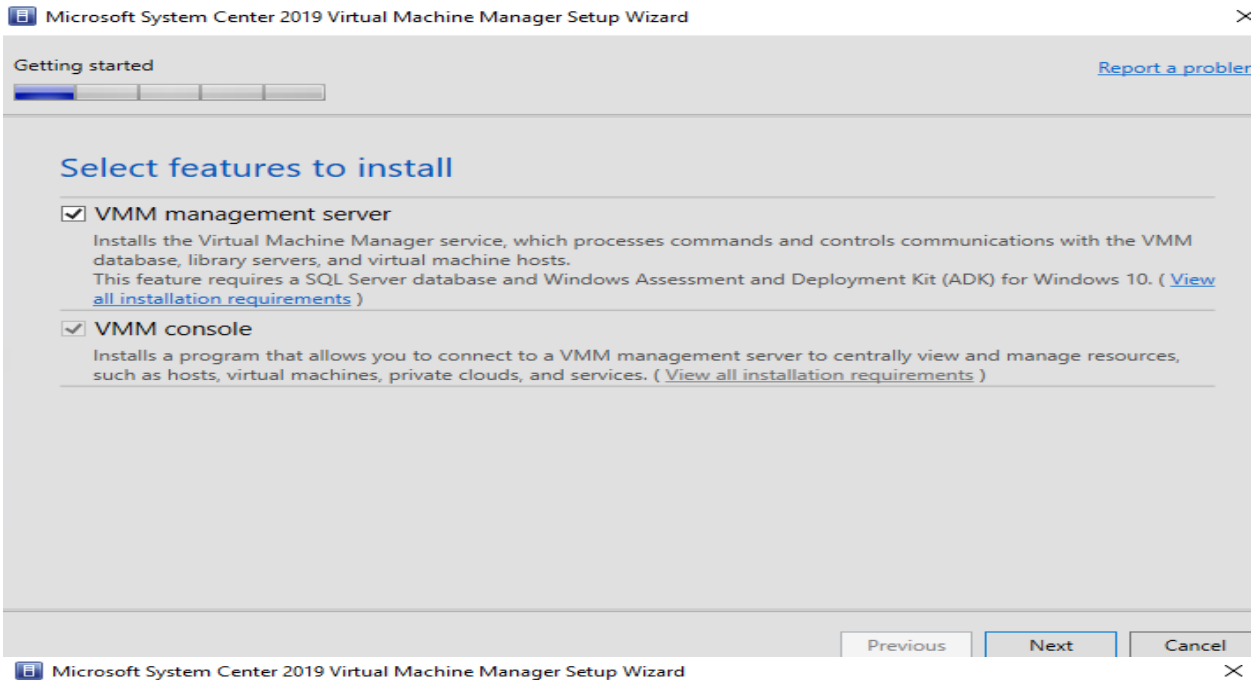
- New-ADServiceAccount SCVMMSVC –DNSHostName SCVMMSVC.ramlan.ca –PrincipalsAllowedToRetrieveManagedPassword VMM$ –KerberosEncryptionType RC4, AES128, AES256
- get-adserviceaccount -identity scvmmsvc

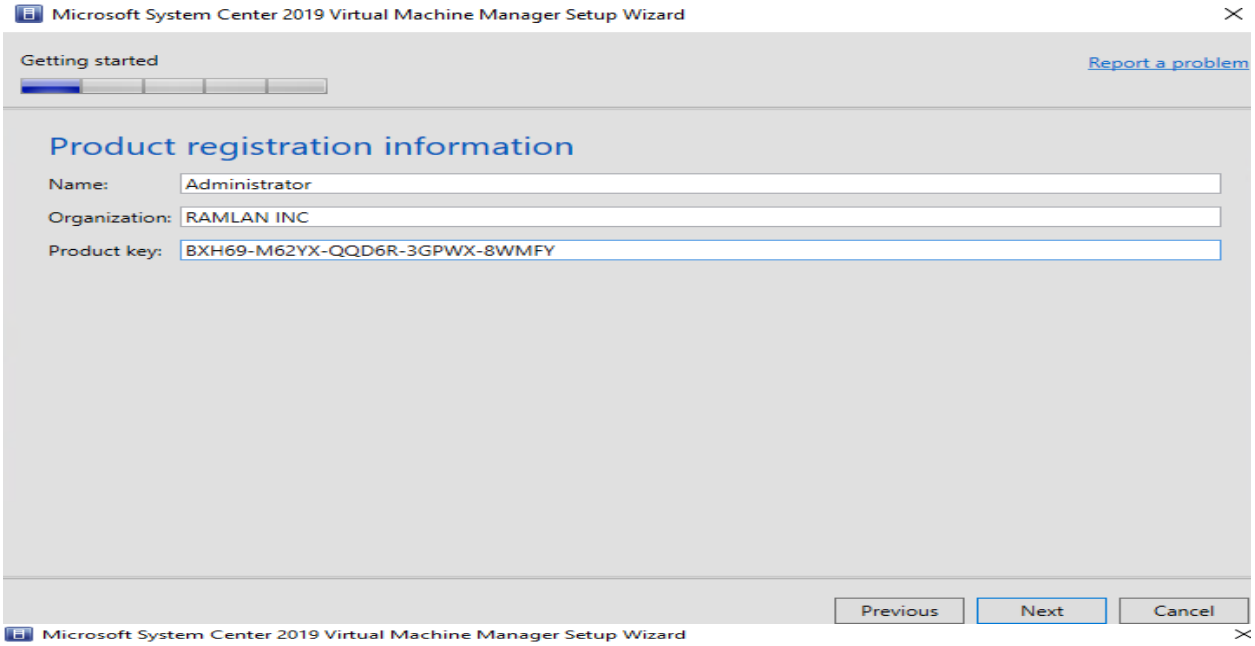
Make sure to add this account to local admin group on VMM machine where you install VMM2019.

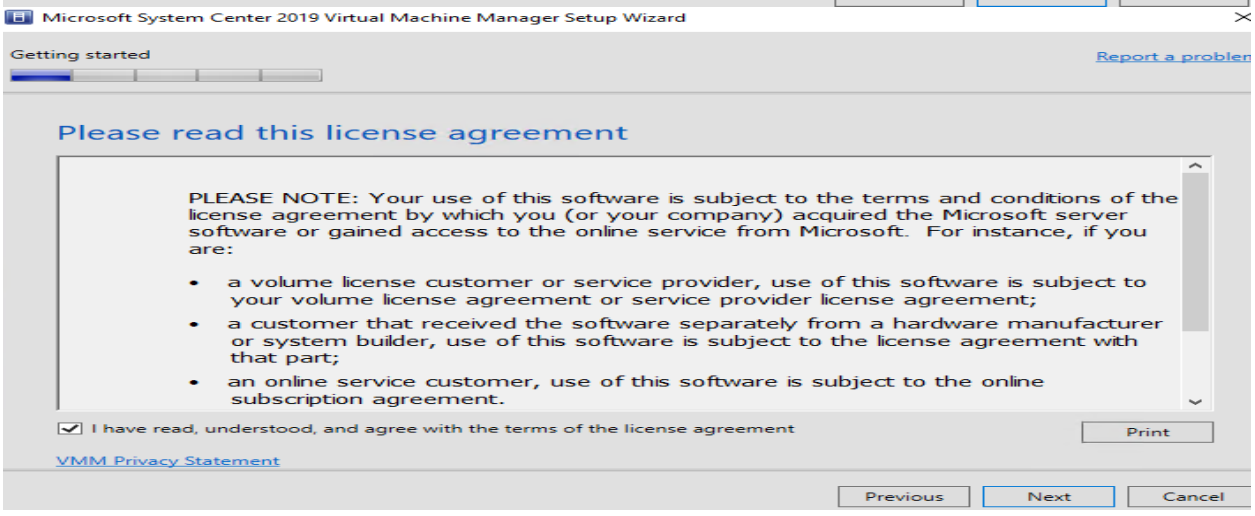
```
S C:\Users\Administrator> New-ADServiceAccount SCVMMSVC -DNSHostName SCVMMSVC.ramlan.ca -PrincipalsAllowedToRetrieveMan
gedPassword VMM$ -KerberosEncryptionType RC4, AES128, AES256
S C:\Users\Administrator> get-adserviceaccount -identity scvmmsvc


istinguishedName : CN=SCVMMSVC,CN=Managed Service Accounts,DC=RAMLAN,DC=CA
nabled           : True
ame              : SCVMMSVC
bjectClass       : msDS-GroupManagedServiceAccount
bjectGUID        : ec9cdf19-f85d-4b59-99f3-6400fb43b2ee
amAccountName    : SCVMMSVC$
ID               : S-1-5-21-2663475566-2463441597-3031320717-1219
erPrincipalName :
```

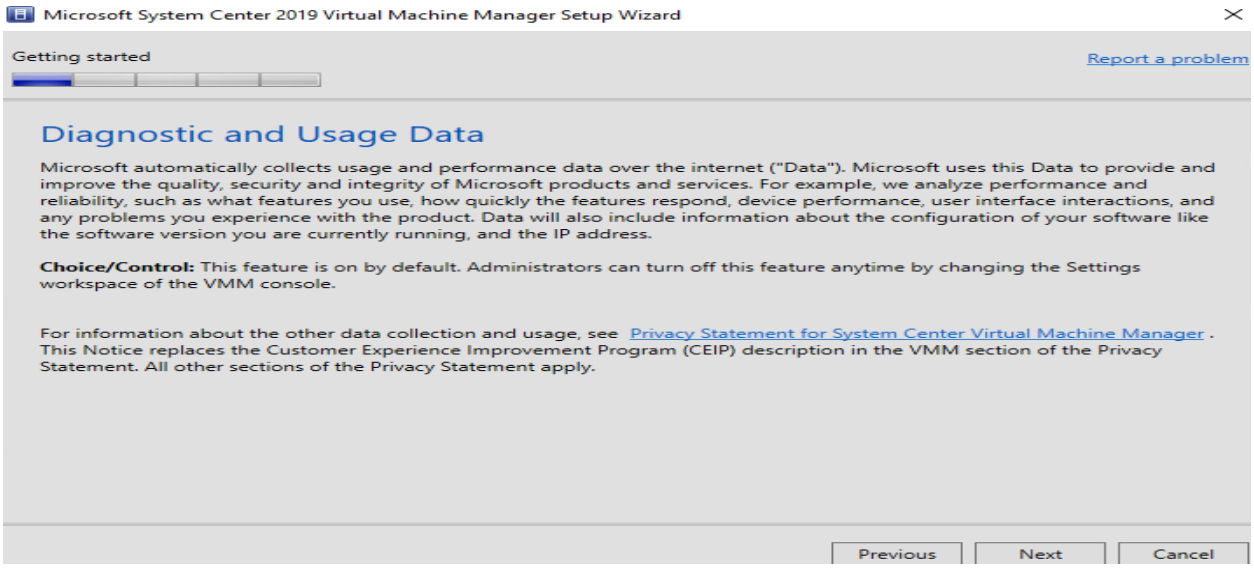
Install VMM 2019:

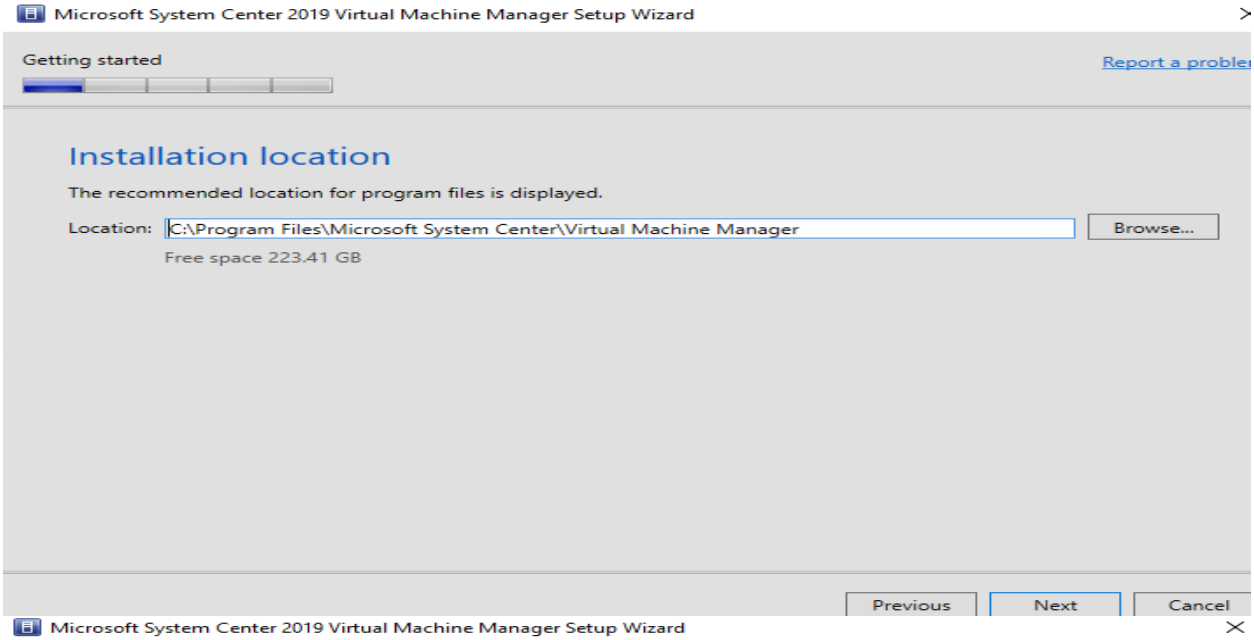


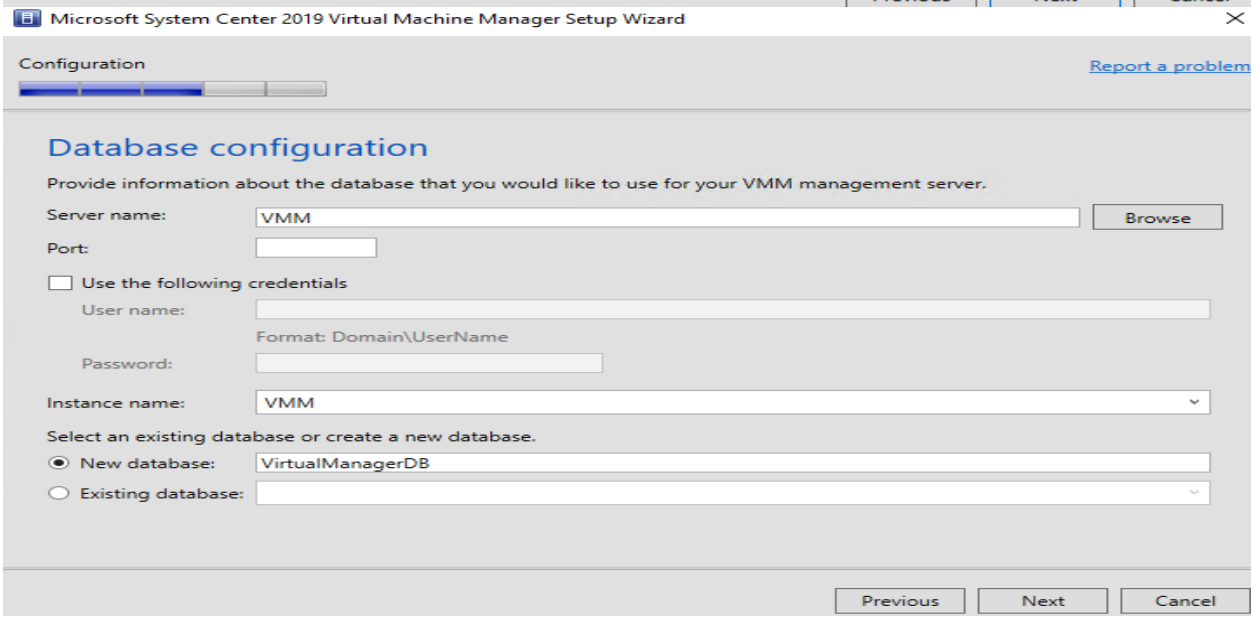

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Getting started
Report a problem
Select features to install
VMM management server
Installs the Virtual Machine Manager service, which processes commands and controls communications with the VMM database, library servers, and virtual machine hosts.
This feature requires a SQL Server database and Windows Assessment and Deployment Kit (ADK) for Windows 10. (View all installation requirements)
VMM console
Installs a program that allows you to connect to a VMM management server to centrally view and manage resources, such as hosts, virtual machines, private clouds, and services. (View all installation requirements)
Previous
Next
Cancel

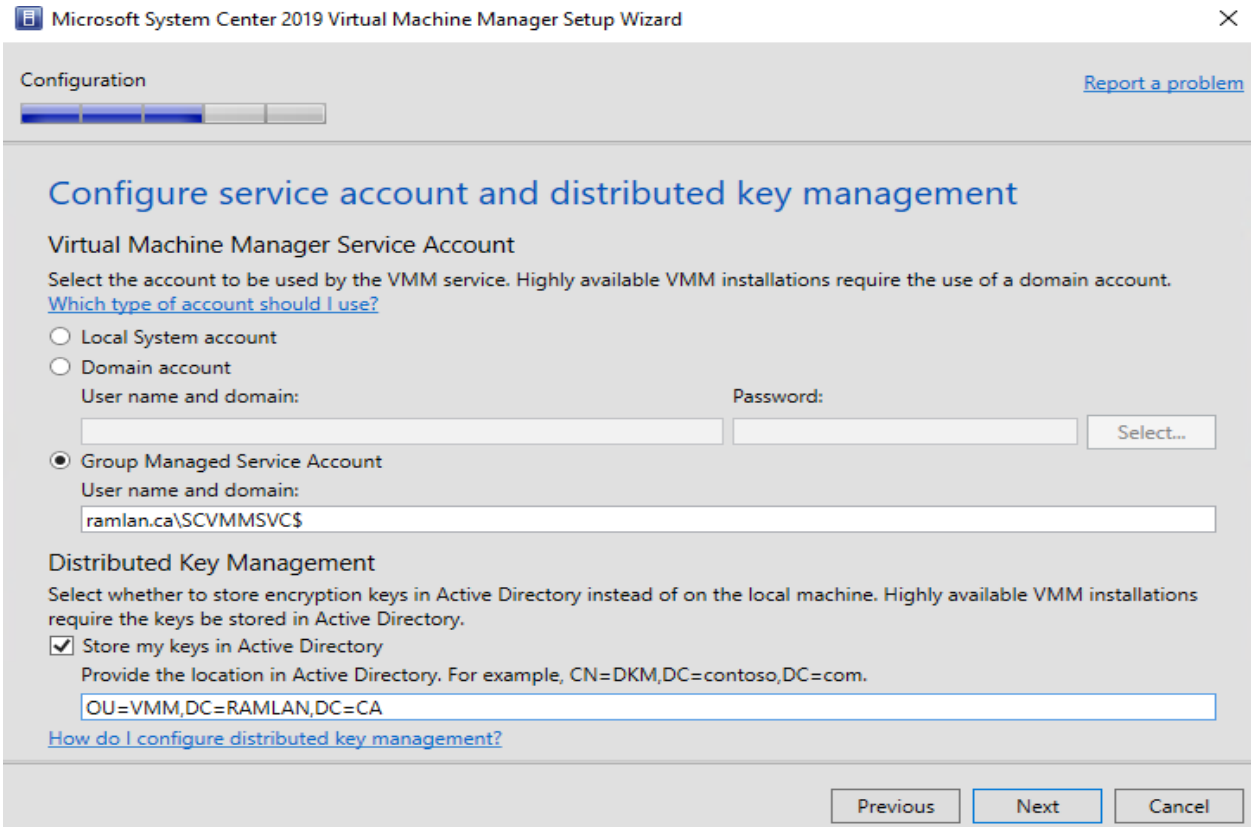

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Getting started
Report a problem
Product registration information
Name: Administrator
Organization: RAMLAN INC
Product key: BXH69-M62YX-QQD6R-3GPWX-8WMFY
Previous
Next
Cancel

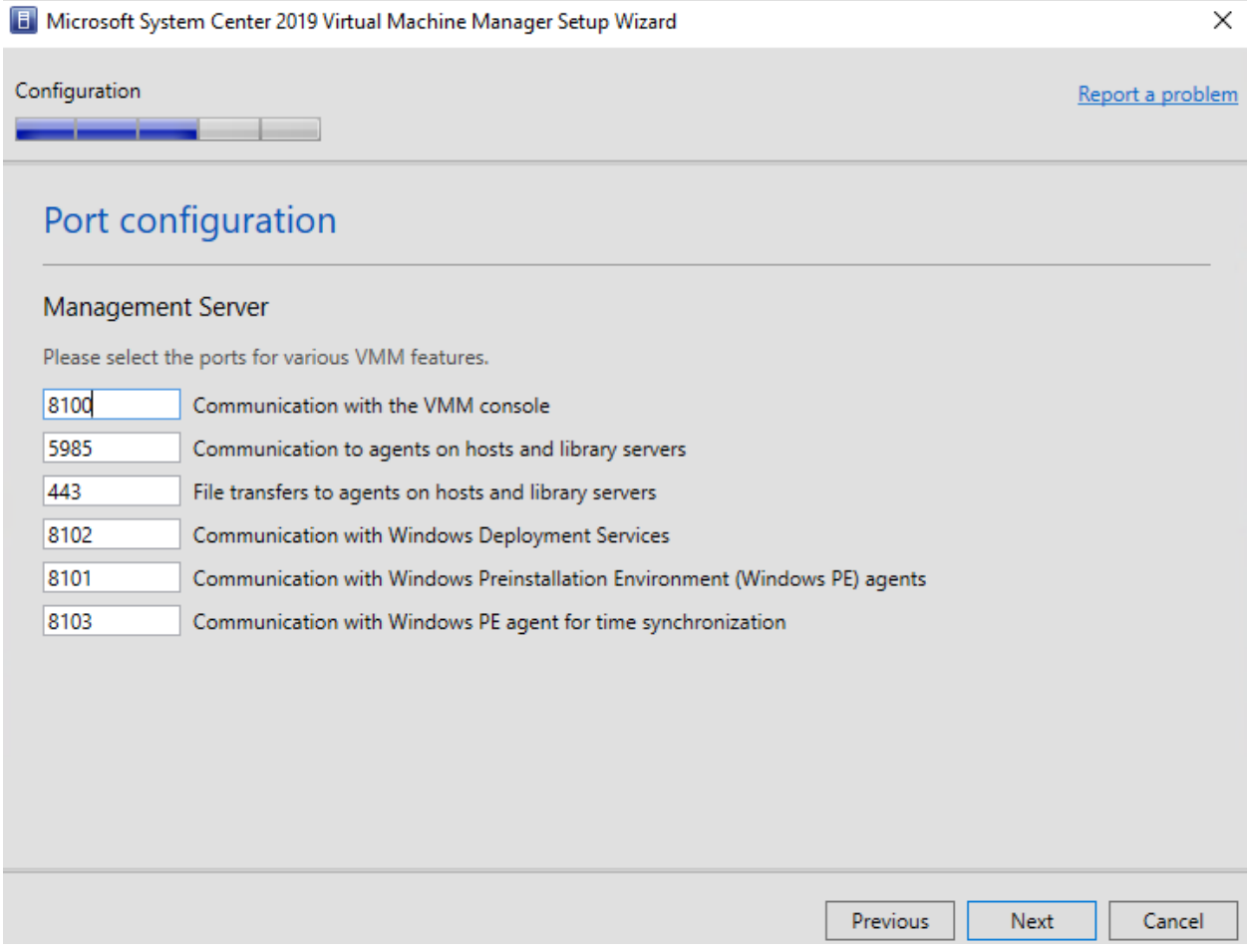

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Getting started
Report a problem
Please read this license agreement
PLEASE NOTE: Your use of this software is subject to the terms and conditions of the license agreement by which you (or your company) acquired the Microsoft server software or gained access to the online service from Microsoft. For instance, if you are:
a volume license customer or service provider, use of this software is subject to your volume license agreement or service provider license agreement;
a customer that received the software separately from a hardware manufacturer or system builder, use of this software is subject to the license agreement with that part;
an online service customer, use of this software is subject to the online subscription agreement.
I have read, understood, and agree with the terms of the license agreement
Print
VMM Privacy Statement
Previous
Next
Cancel

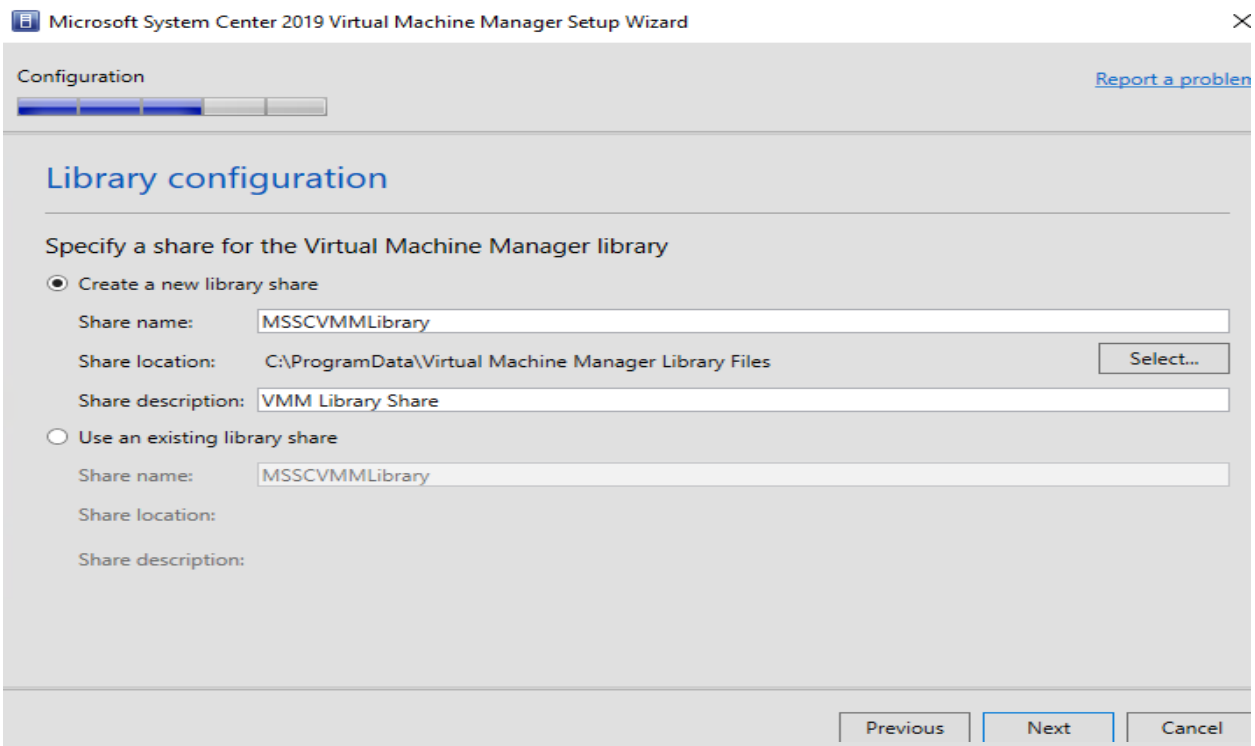

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Getting started
Report a problem
Diagnostic and Usage Data
Microsoft automatically collects usage and performance data over the internet ("Data"). Microsoft uses this Data to provide and improve the quality, security and integrity of Microsoft 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 Settings workspace of the VMM console.
For information about the other data collection and usage, see Privacy Statement for System Center Virtual Machine Manager . This Notice replaces the Customer Experience Improvement Program (CEIP) description in the VMM section of the Privacy Statement. All other sections of the Privacy Statement apply.
Previous
Next
Cancel

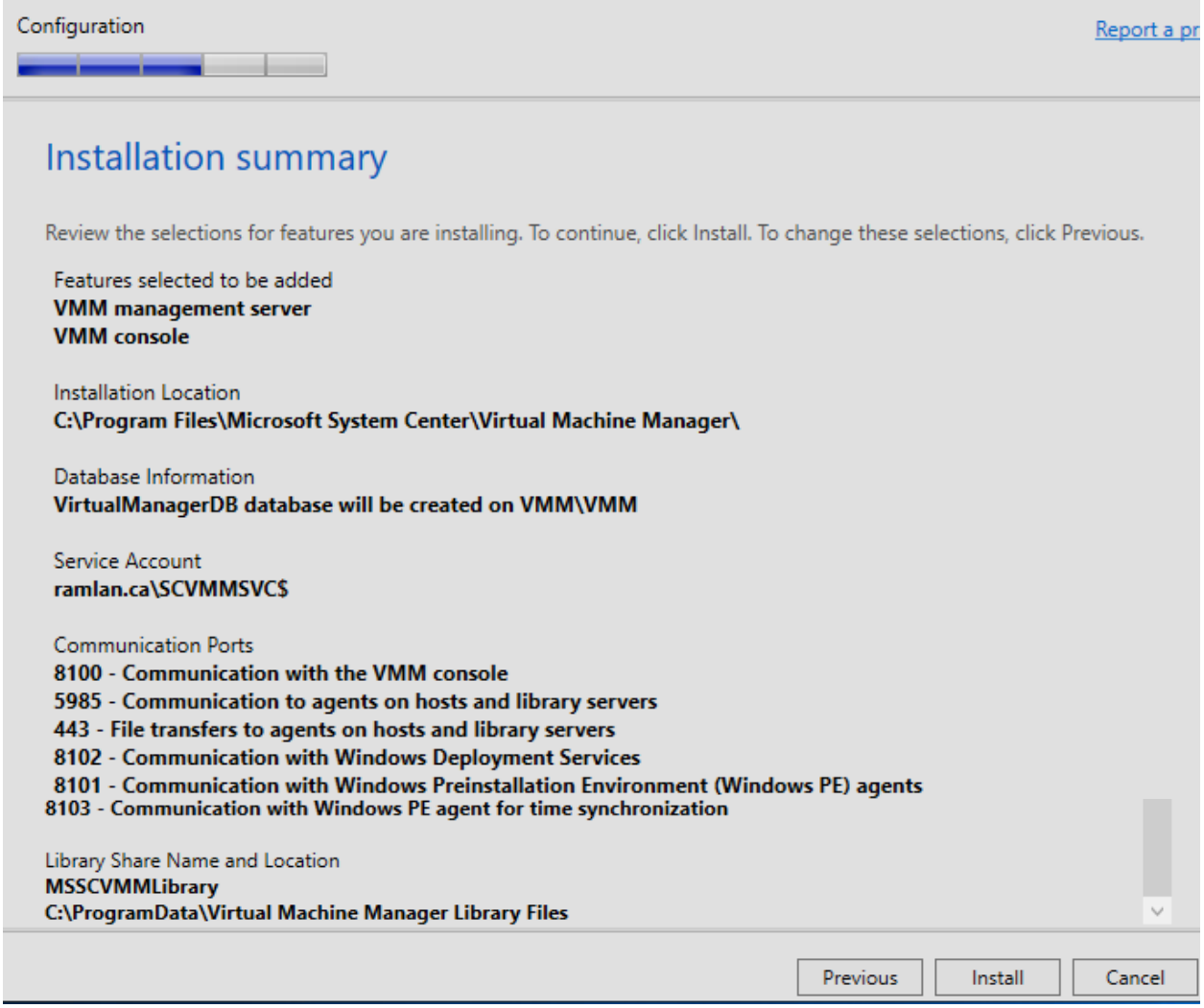

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Getting started
Report a proble
Installation location
The recommended location for program files is displayed.
Location: C:\Program Files\Microsoft System Center\Virtual Machine Manager
Browse...
Free space 223.41 GB
Previous
Next
Cancel

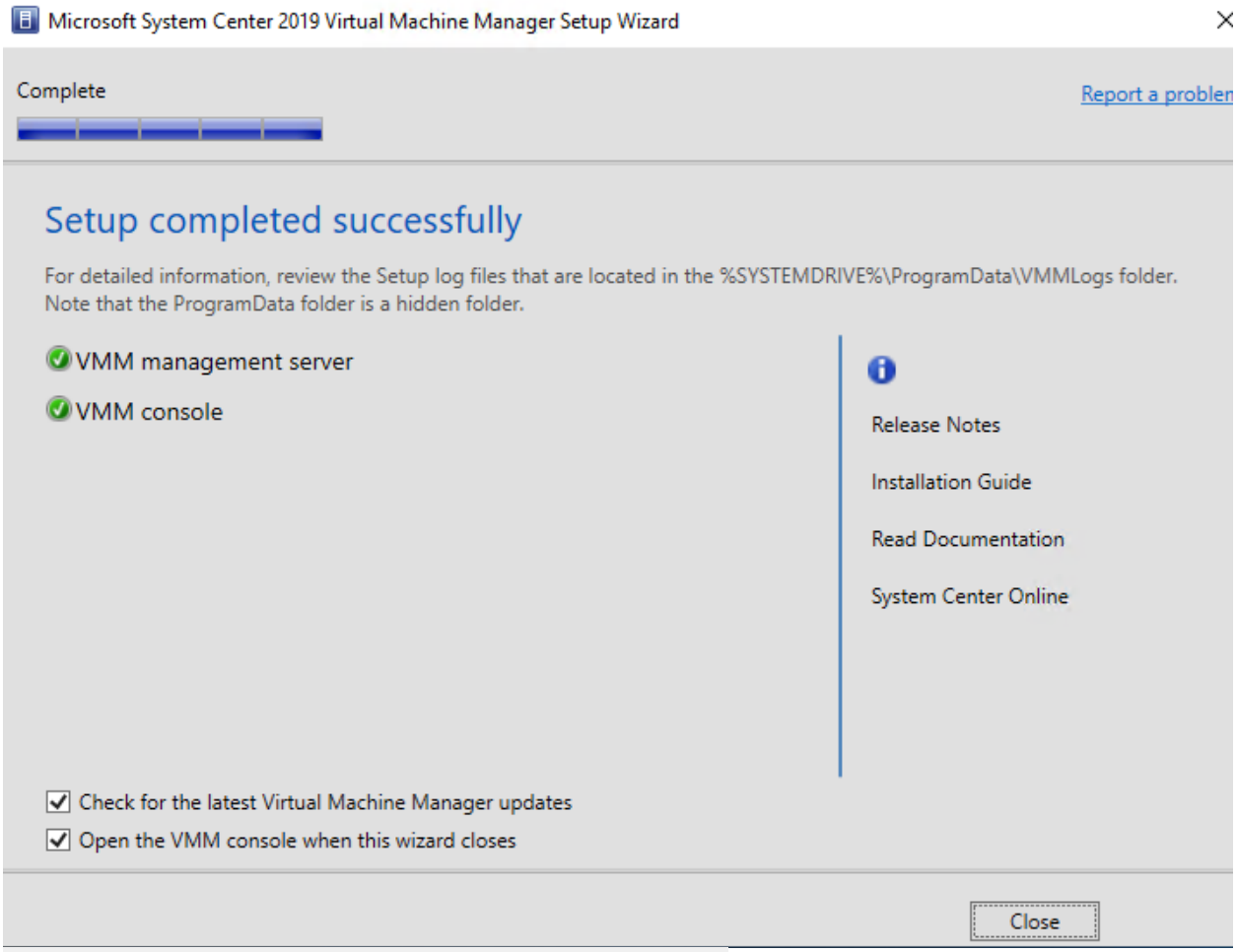

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Configuration
Report a problem
Database configuration
Provide information about the database that you would like to use for your VMM management server.
Server name: VMM
Browse
Port:
Use the following credentials
User name:
Format: Domain\UserName
Password:
Instance name: VMM
Select an existing database or create a new database.
New database: VirtualManagerDB
Existing database:
Previous
Next
Cancel

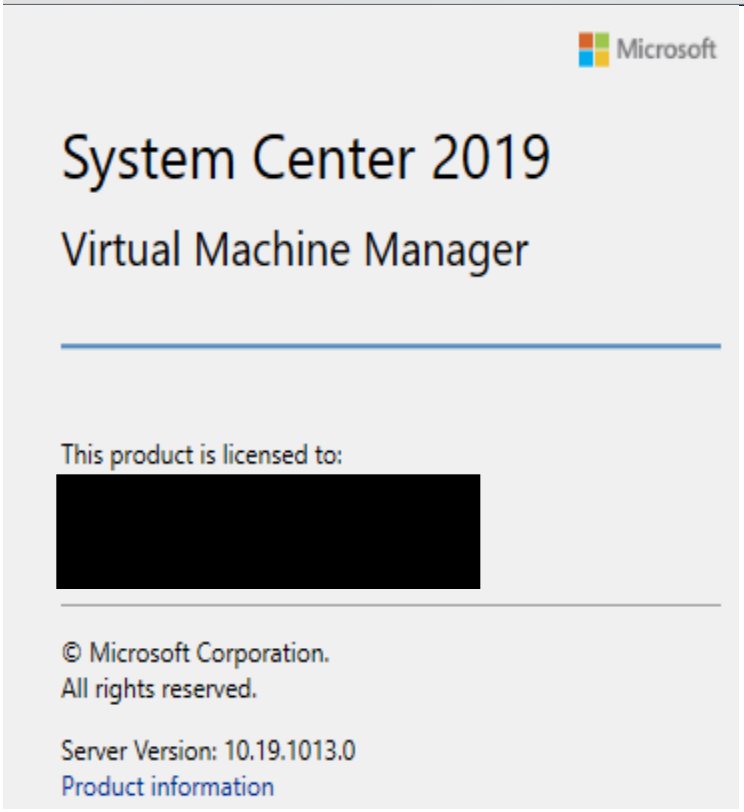

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Configuration
Report a problem
Configure service account and distributed key management
Virtual Machine Manager Service Account
Select the account to be used by the VMM service. Highly available VMM installations require the use of a domain account.
Which type of account should I use?
Local System account
Domain account
User name and domain:
Password:
Select...
Group Managed Service Account
User name and domain:
ramlan.ca\SCVMMSVC$
Distributed Key Management
Select whether to store encryption keys in Active Directory instead of on the local machine. Highly available VMM installations require the keys be stored in Active Directory.
Store my keys in Active Directory
Provide the location in Active Directory. For example, CN=DKM,DC=contoso,DC=com.
OU=VMM,DC=RAMLAN,DC=CA
How do I configure distributed key management?
Previous
Next
Cancel

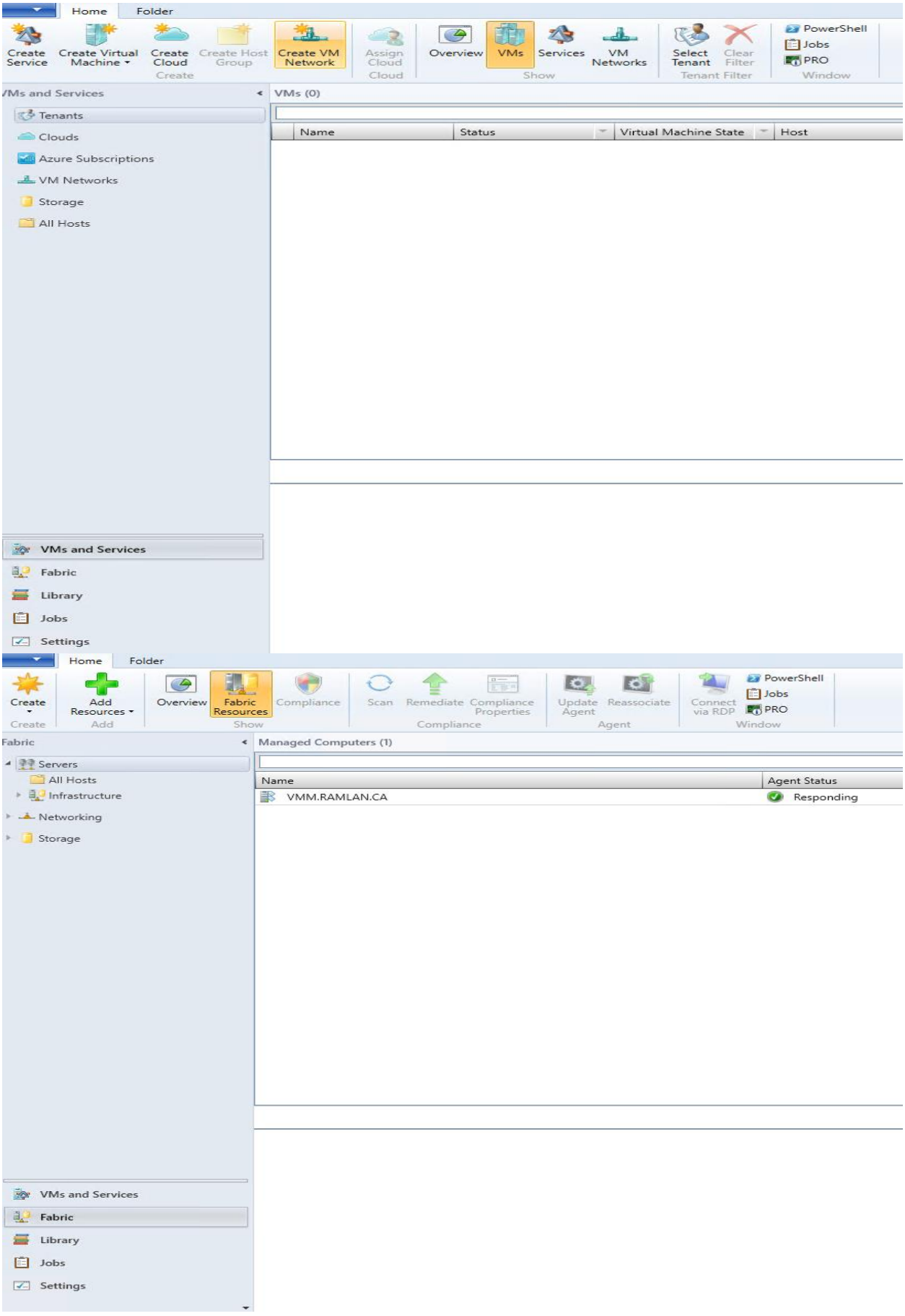

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Configuration
Report a problem
Port configuration
Management Server
Please select the ports for various VMM features.
8100 Communication with the VMM console
5985 Communication to agents on hosts and library servers
443 File transfers to agents on hosts and library servers
8102 Communication with Windows Deployment Services
8101 Communication with Windows Preinstallation Environment (Windows PE) agents
8103 Communication with Windows PE agent for time synchronization
Previous
Next
Cancel

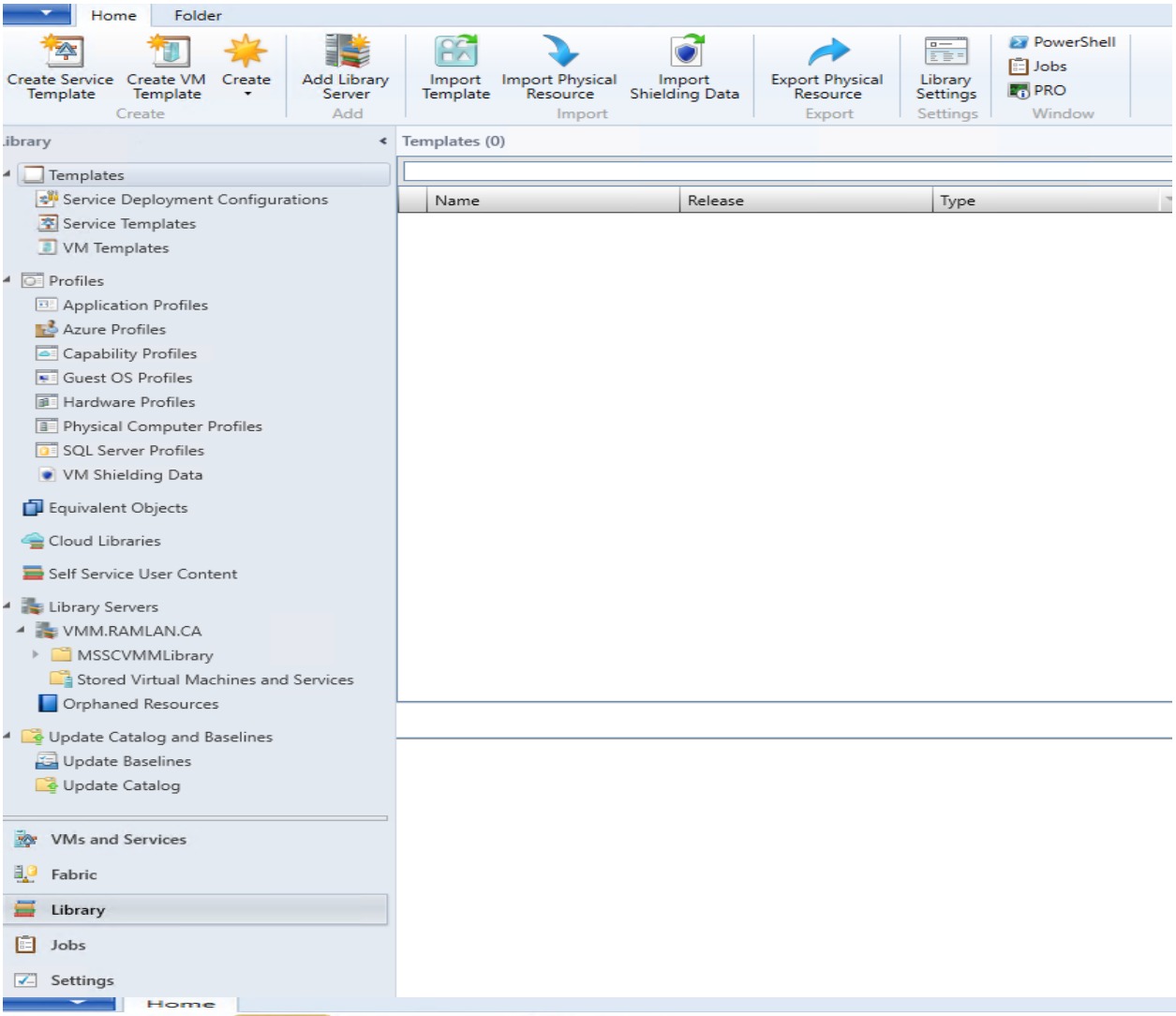

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Configuration
Report a problen
Library configuration
Specify a share for the Virtual Machine Manager library
Create a new library share
Share name: MSSCVMMLibrary
Share location: C:\ProgramData\Virtual Machine Manager Library Files
Select...
Share description: VMM Library Share
Use an existing library share
Share name: MSSCVMMLibrary
Share location:
Share description:
Previous
Next
Cancel

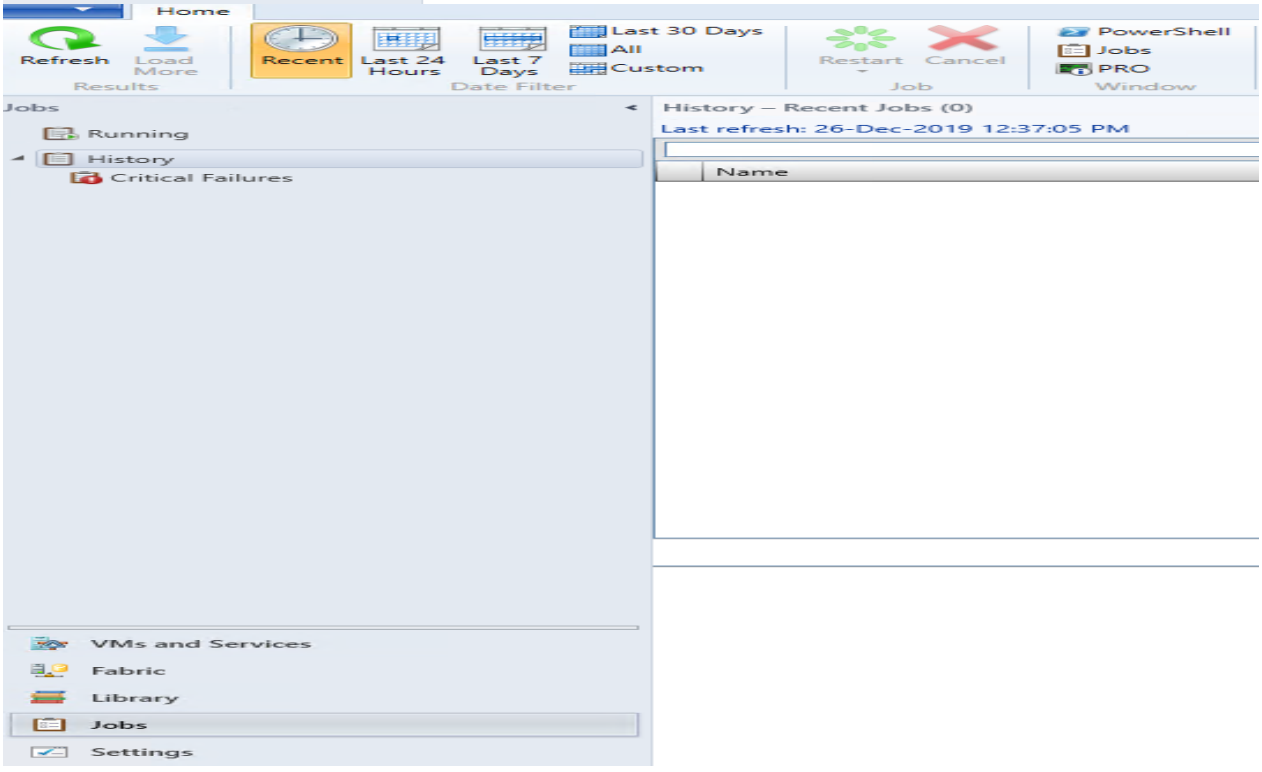

Configuration
Report a pr
Installation summary
Review the selections for features you are installing. To continue, click Install. To change these selections, click Previous.
Features selected to be added
VMM management server
VMM console
Installation Location
C:\Program Files\Microsoft System Center\Virtual Machine Manager\
Database Information
VirtualManagerDB database will be created on VMM\VMM
Service Account
ramlan.ca\SCVMMSVC$
Communication Ports
8100 - Communication with the VMM console
5985 - Communication to agents on hosts and library servers
443 - File transfers to agents on hosts and library servers
8102 - Communication with Windows Deployment Services
8101 - Communication with Windows Preinstallation Environment (Windows PE) agents
8103 - Communication with Windows PE agent for time synchronization
Library Share Name and Location
MSSCVMMLibrary
C:\ProgramData\Virtual Machine Manager Library Files
Previous
Install
Cancel

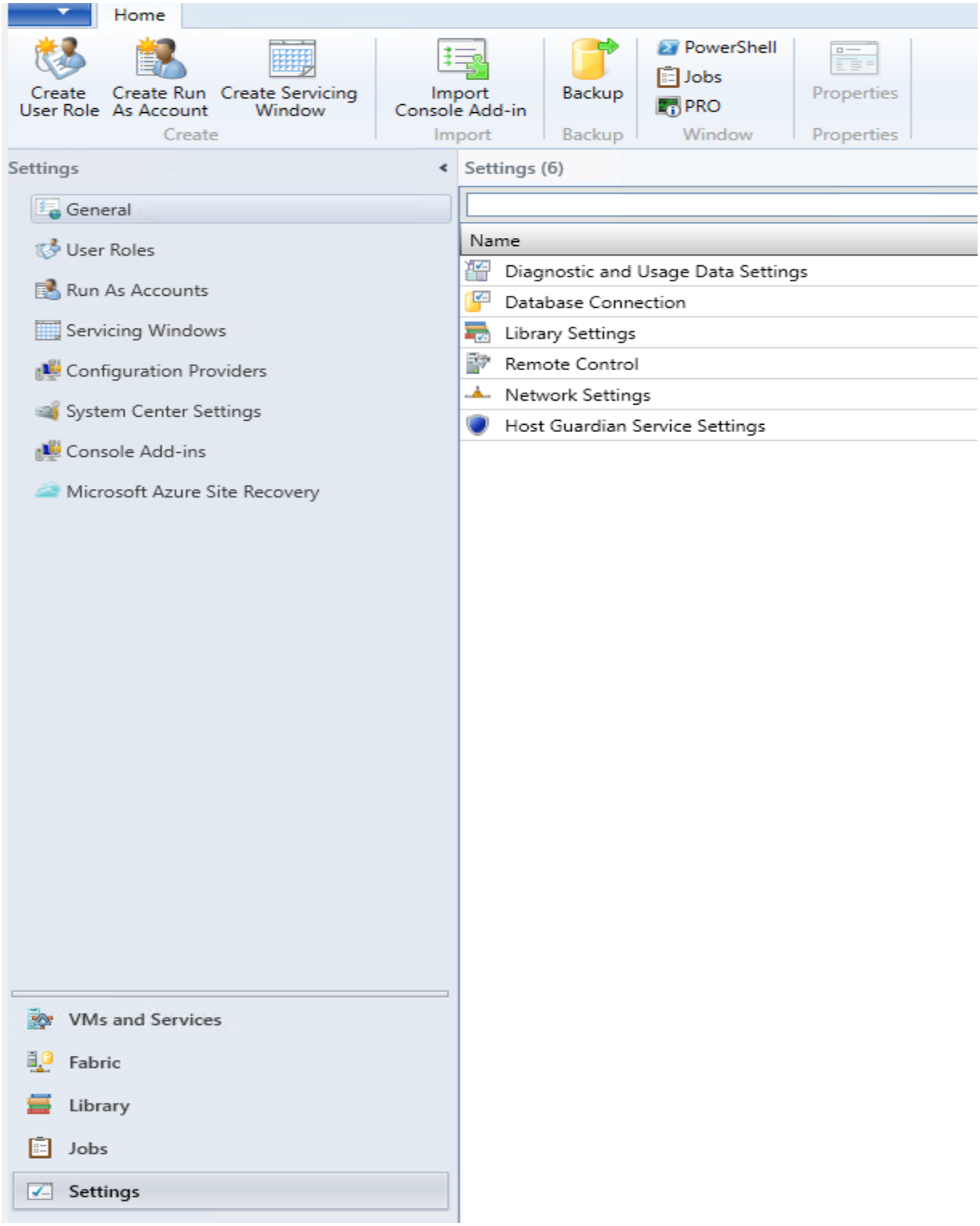

Microsoft System Center 2019 Virtual Machine Manager Setup Wizard
Complete
Report a problem
Setup completed successfully
For detailed information, review the Setup log files that are located in the %SYSTEMDRIVE%\ProgramData\VMMLogs folder.
Note that the ProgramData folder is a hidden folder.
VMM management server
VMM console
Release Notes
Installation Guide
Read Documentation
System Center Online
Check for the latest Virtual Machine Manager updates
Open the VMM console when this wizard closes
Close


Microsoft
System Center 2019
Virtual Machine Manager
This product is licensed to:
[redacted]
© Microsoft Corporation.
All rights reserved.
Server Version: 10.19.1013.0
Product information


Home
Folder
Create Service
Create Virtual Machine
Create Cloud
Create Host Group
Create VM Network
Create
Assign Cloud
Cloud
Overview
VMs
Services
VM Networks
Show
Select Tenant
Clear Filter
Tenant Filter
PowerShell
Jobs
PRO
Window
VMs and Services
Tenants
Clouds
Azure Subscriptions
VM Networks
Storage
All Hosts
VMs (0)
Name
Status
Virtual Machine State
Host
VMs and Services
Fabric
Library
Jobs
Settings
Home
Folder
Create
Add Resources
Add
Overview
Fabric Resources
Compliance
Show
Scan
Remediate
Compliance Properties
Compliance
Update Agent
Reassociate
Agent
Connect via RDP
PowerShell
Jobs
PRO
Window
Fabric
Servers
All Hosts
Infrastructure
Networking
Storage
Managed Computers (1)
Name
Agent Status
VMM.RAMLAN.CA
Responding
VMs and Services
Fabric
Library
Jobs
Settings


Home
Folder
Create Service Template
Create VM Template
Create
Create
Add Library Server
Add
Import Template
Import Physical Resource
Import Shielding Data
Import
Export Physical Resource
Export
Library Settings
Settings
PowerShell
Jobs
PRO
Window
Templates (0)
Name
Release
Type
Templates
Service Deployment Configurations
Service Templates
VM Templates
Profiles
Application Profiles
Azure Profiles
Capability Profiles
Guest OS Profiles
Hardware Profiles
Physical Computer Profiles
SQL Server Profiles
VM Shielding Data
Equivalent Objects
Cloud Libraries
Self Service User Content
Library Servers
VMM.RAMLAN.CA
MSSCVMMLibrary
Stored Virtual Machines and Services
Orphaned Resources
Update Catalog and Baselines
Update Baselines
Update Catalog
VMs and Services
Fabric
Library
Jobs
Settings


Home
Refresh
Load More
Results
Recent
Last 24 Hours
Last 7 Days
Last 30 Days
All
Custom
Date Filter
Restart
Cancel
Job
PowerShell
Jobs
PRO
Window
Jobs
Running
History
Critical Failures
History – Recent Jobs (0)
Last refresh: 26-Dec-2019 12:37:05 PM
Name
VMs and Services
Fabric
Library
Jobs
Settings



This concludes the installation of VMM 2019

Thanks

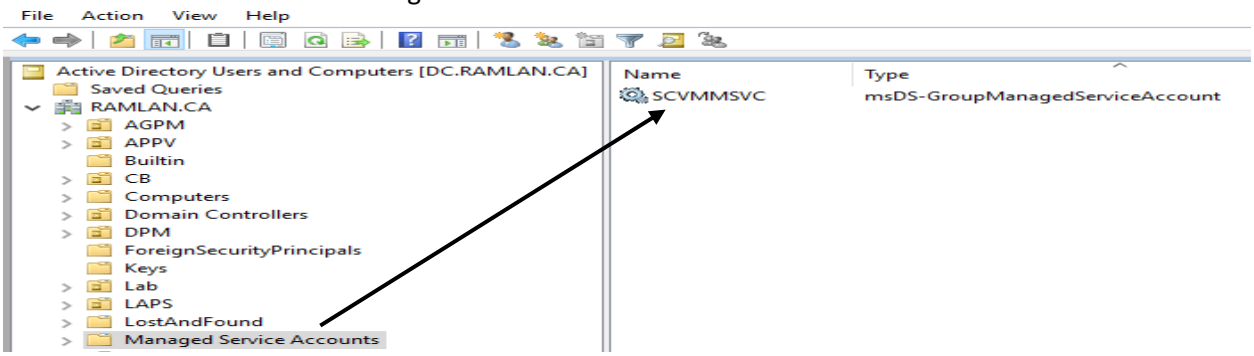
Ram Lan
26th Dec 2019

GMSA – **Group Managed Service Account**: This account is created in AD on Domain Controller using PowerShell. There is no password set. You do have the option to set how frequent the password will be updated.

One of the newest features of GMSA is VMM Server will request the password from AD on a consistent basis and update SCVMMSVC with the new Service Account password, all in the background, allowing you and your security team peace of mind that the Service account password is reset regularly and unknown to any humans.

One important note is when installing VMM 2019 make sure to add SCVMMSVC account to Local Administrator Group – if not you will get pop up message to complete before you can proceed.

The account is visible under Managed Service Accounts in AD



https://docs.microsoft.com/en-us/windows-server/security/group-managed-service-accounts/getting-started-with-group-managed-service-accounts

Parameter	String	Example
Name	Name of the account	ITFarm1
DNSHostName	DNS host name of service	ITFarm1.contoso.com
KerberosEncryptionType	Any encryption types supported by the host servers	RC4, AES128, AES256
ManagedPasswordIntervalInDays	Password change interval in days (default is 30 days if not provided)	90
PrincipalsAllowedToRetrieveManagedPassword	The computer accounts of the member hosts or the security group that the member hosts are a member of	ITFarmHosts
SamAccountName	NetBIOS name for the service if not same as Name	ITFarm1
ServicePrincipalNames	Service Principal Names (SPNs) for the service	http/ITFarm1.contoso.com/contoso.com, http/ITFarm1.contoso.com/contoso, http/ITFarm1/contoso.com, http/ITFarm1/contoso

EXAMPLE: New-ADServiceAccount ITFarm1 -DNSHostName ITFarm1.contoso.com -PrincipalsAllowedToRetrieveManagedPassword ITFarmHosts$ -KerberosEncryptionType RC4, AES128, AES256 -ServicePrincipalNames http/ITFarm1.contoso.com/contoso.com, http/ITFarm1.contoso.com/contoso, http/ITFarm1/contoso.com, http/ITFarm1/contoso