

## INFO 6210 MS SQL Server Installation (Windows)

\* SQL Server 2016 Developer edition

MyNEU → Self-Service → Free and Discounted Software → Find SQL Server 2016 Developer edition

Filename: en\_sql\_server\_2016\_developer\_x64\_dvd\_8777069.iso

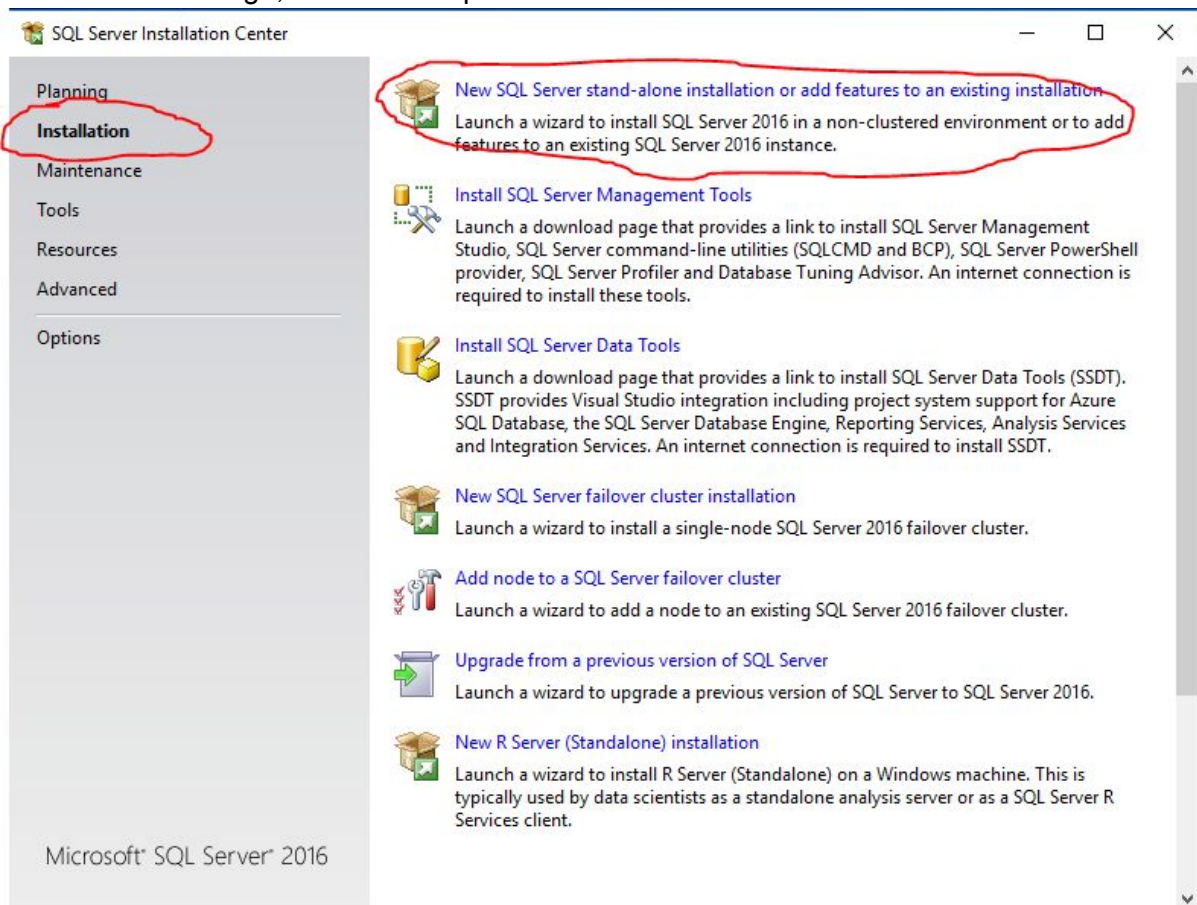
\* SQL Server Management Studio

<https://msdn.microsoft.com/en-us/library/mt238290.aspx>

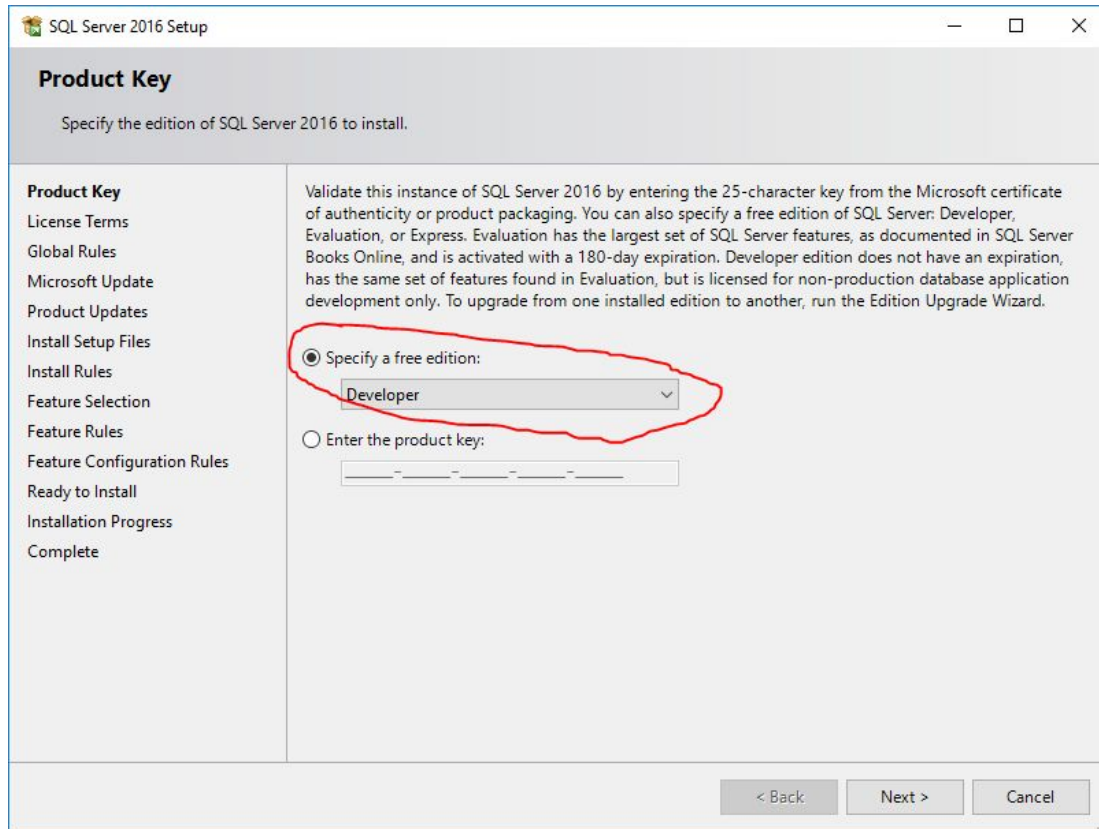
Filename: SSMS-Setup-ENU.exe

If you have old versions installed, uninstall them first.

1. Load the iso image, then run setup.exe.



2.



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

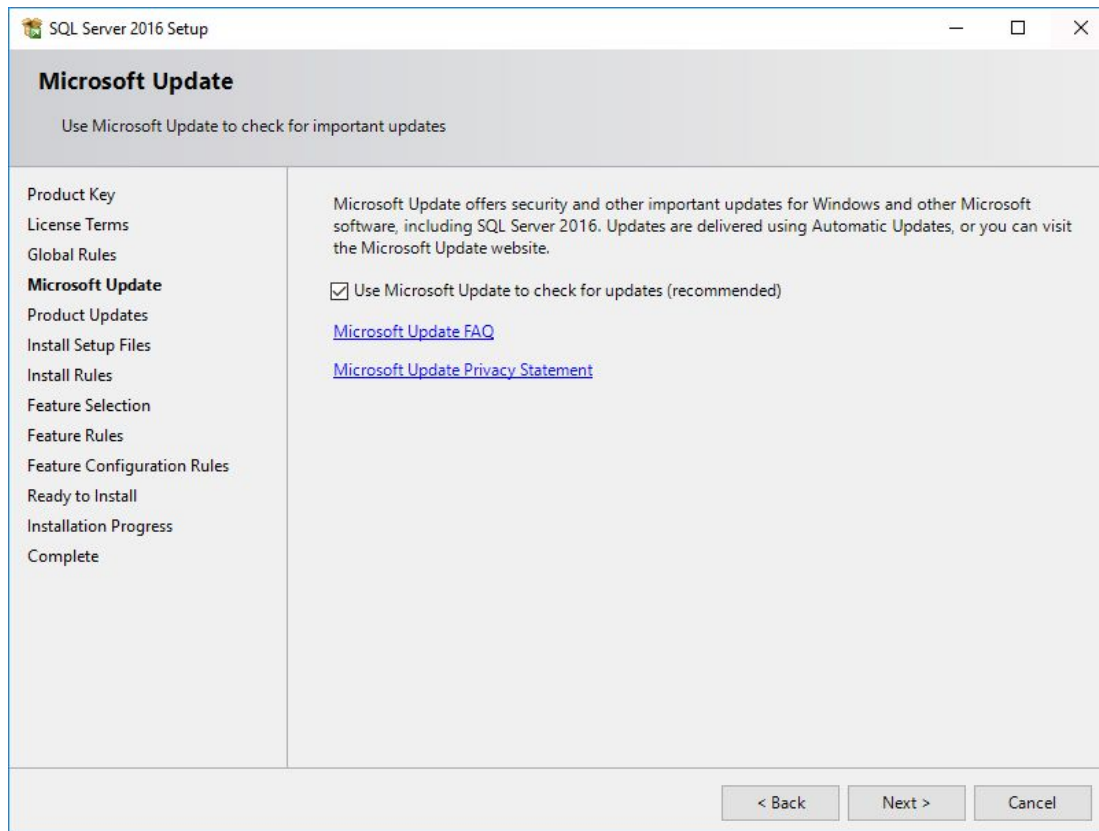
Validate this instance of SQL Server 2016 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in 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:  
Developer

☐ Enter the product key:  
\_\_\_\_\_

< Back   Next >   Cancel

3.



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

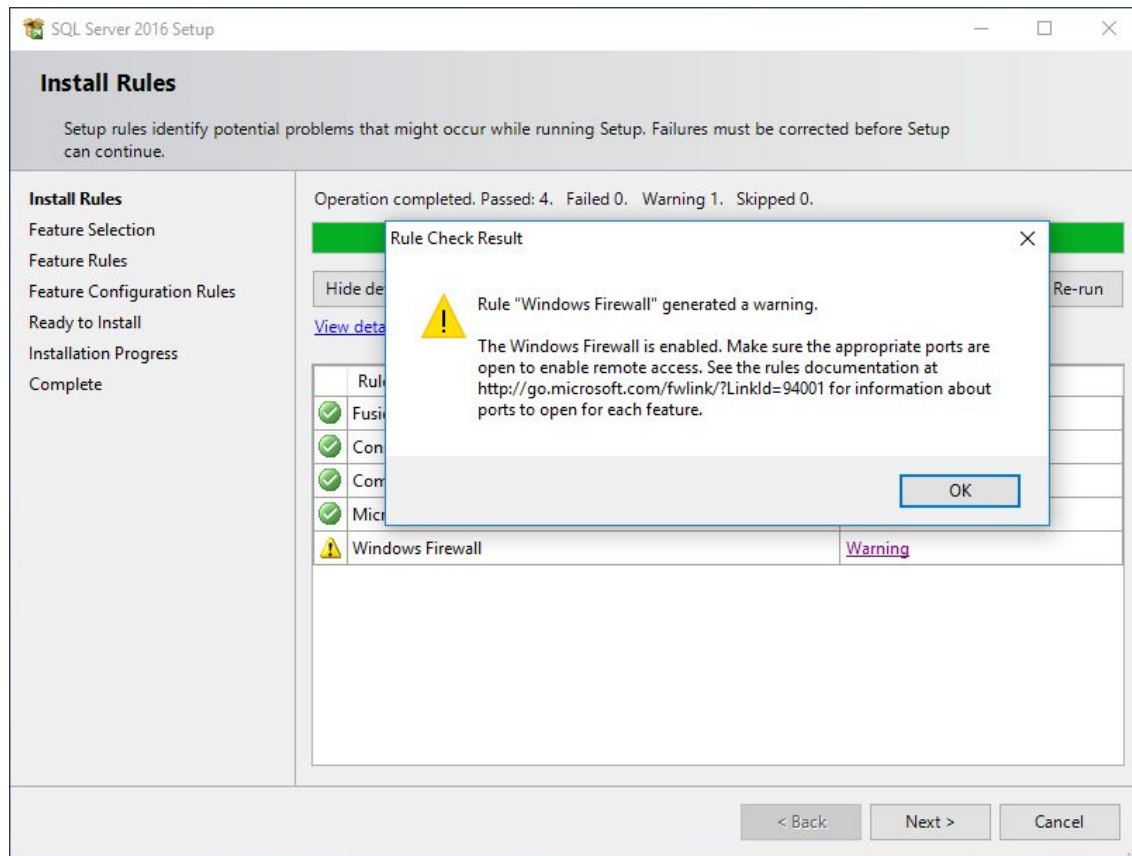
Microsoft Update offers security and other important updates for Windows and other Microsoft software, including SQL Server 2016. Updates are delivered using Automatic Updates, or you can visit the Microsoft Update website.

☒ Use Microsoft Update to check for updates (recommended)

[Microsoft Update FAQ](#)  
[Microsoft Update Privacy Statement](#)

< Back   Next >   Cancel

#### 4. Ignore the warning.



5. Select these Features for now. You can always come back after the installation to add more if you ever need them. You can also change the installation path here.

The screenshot shows the 'SQL Server 2016 Setup' window with the 'Feature Selection' tab active. The window is titled 'SQL Server 2016 Setup' and has standard Windows window controls. The 'Feature Selection' section is highlighted in the left sidebar. The main area is divided into three panes: 'Features:', 'Feature description:', and 'Prerequisites for selected features:'. The 'Features:' pane is further divided into 'Instance Features', 'Shared Features', and 'Redistributable Features'. Under 'Instance Features', 'Database Engine Services' is checked, along with 'Analysis Services' and 'Reporting Services - Native'. Under 'Shared Features', 'Client Tools Connectivity' and 'Integration Services' are checked. The 'Feature description:' pane shows details for the 'Database Engine Services' feature. The 'Prerequisites for selected features:' pane shows a list of prerequisites, including 'Windows PowerShell 3.0 or higher', 'Microsoft Visual Studio 2010 Redistributables', and 'Microsoft .NET Framework 4.6'. Below the prerequisites, there is a section for 'Disk Space Requirements' showing 'Drive C: 2823 MB required, 35397 MB available'. At the bottom, there are buttons for 'Select All' and 'Unselect All', and three text boxes for installation paths: 'Instance root directory:', 'Shared feature directory:', and 'Shared feature directory (x86):'. The bottom right corner has '< Back', 'Next >', and 'Cancel' buttons.

SQL Server 2016 Setup

### Feature Selection

Select the Developer features to install.

**Install Rules**

- Feature Selection**
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration
- Analysis Services 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**

**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 Visual Studio 2010 Redistributables
- Microsoft .NET Framework 4.6

**To be installed from media:**

- Microsoft Visual Studio 2010 Shell
- Microsoft Visual C++ 2015 Redistributable
- Microsoft Visual Studio Tools for Applications

**Disk Space Requirements**

Drive C: 2823 MB required, 35397 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

## 6. Keep the default settings.

The screenshot shows the 'Instance Configuration' window in the SQL Server 2016 Setup. The window title is 'SQL Server 2016 Setup'. The main heading is 'Instance Configuration' with a subtitle: 'Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.' On the left is a navigation pane with the following items: 'Install Rules', 'Feature Selection', 'Feature Rules', 'Instance Configuration' (highlighted), 'Server Configuration', 'Database Engine Configuration', 'Analysis Services Configuration', 'Reporting Services Configuration', 'Feature Configuration Rules', 'Ready to Install', 'Installation Progress', and 'Complete'. The main area has two radio buttons: 'Default instance' (selected) and 'Named instance:'. Below the 'Named instance' button is a text box containing 'MSSQLSERVER'. Below that is a text box for 'Instance ID:' also containing 'MSSQLSERVER'. Further down are three lines of text: 'SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSERVER', 'Analysis Services directory: C:\Program Files\Microsoft SQL Server\MSAS13.MSSQLSERVER', and 'Reporting Services directory: C:\Program Files\Microsoft SQL Server\MSRS13.MSSQLSERVER'. Below these is a section 'Installed instances:' followed by a table with columns: 'Instance Name', 'Instance ID', 'Features', 'Edition', and 'Version'. The table is currently empty. At the bottom right are three buttons: '< Back', 'Next >', and '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.

Install Rules  
Feature Selection  
Feature Rules  
**Instance Configuration**  
Server Configuration  
Database Engine Configuration  
Analysis Services Configuration  
Reporting Services Configuration  
Feature Configuration Rules  
Ready to Install  
Installation Progress  
Complete

☒ Default instance  
☐ Named instance: MSSQLSERVER

Instance ID: MSSQLSERVER

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSERVER  
Analysis Services directory: C:\Program Files\Microsoft SQL Server\MSAS13.MSSQLSERVER  
Reporting Services directory: C:\Program Files\Microsoft SQL Server\MSRS13.MSSQLSERVER

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
---------------	-------------	----------	---------	---------

< Back   Next >   Cancel

## 7. Default.

The screenshot shows the 'Server Configuration' window in the SQL Server 2016 Setup. The window title is 'SQL Server 2016 Setup'. The main heading is 'Server Configuration' with a subtitle: 'Specify the service accounts and collation configuration.' On the left is a navigation pane with the following items: 'Install Rules', 'Feature Selection', 'Feature Rules', 'Instance Configuration', 'Server Configuration' (highlighted), 'Database Engine Configuration', 'Analysis Services Configuration', 'Reporting Services Configuration', 'Feature Configuration Rules', 'Ready to Install', 'Installation Progress', and 'Complete'. The main area has two tabs: 'Service Accounts' (selected) and 'Collation'. Below the tabs is a text box: 'Microsoft recommends that you use a separate account for each SQL Server service.' Below that is a table with columns: 'Service', 'Account Name', 'Password', and 'Startup Type'. The table contains the following rows: 'SQL Server Agent' (Account: NT Service\SQLSERVERA..., Startup: Manual), 'SQL Server Database Engine' (Account: NT Service\MSSQLSERVER, Startup: Automatic), 'SQL Server Analysis Services' (Account: NT Service\MSSQLServe..., Startup: Automatic), 'SQL Server Reporting Services' (Account: NT Service\ReportServer, Startup: Automatic), 'SQL Server Integration Services 13.0' (Account: NT Service\MsDtsServer..., Startup: Automatic), and 'SQL Server Browser' (Account: NT AUTHORITY\LOCAL ..., Startup: Disabled). Below the table is a checkbox: 'Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service'. Below the checkbox is a text box: '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.' Below the text box is a link: 'Click here for details'. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

SQL Server 2016 Setup

### Server Configuration

Specify the service accounts and collation configuration.

Install Rules  
Feature Selection  
Feature Rules  
Instance Configuration  
**Server Configuration**  
Database Engine Configuration  
Analysis Services 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	NT Service\SQLSERVERA...		Manual
SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic
SQL Server Analysis Services	NT Service\MSSQLServe...		Automatic
SQL Server Reporting Services	NT Service\ReportServer		Automatic
SQL Server Integration Services 13.0	NT Service\MsDtsServer...		Automatic
SQL Server Browser	NT AUTHORITY\LOCAL ...		Disabled

☐ 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



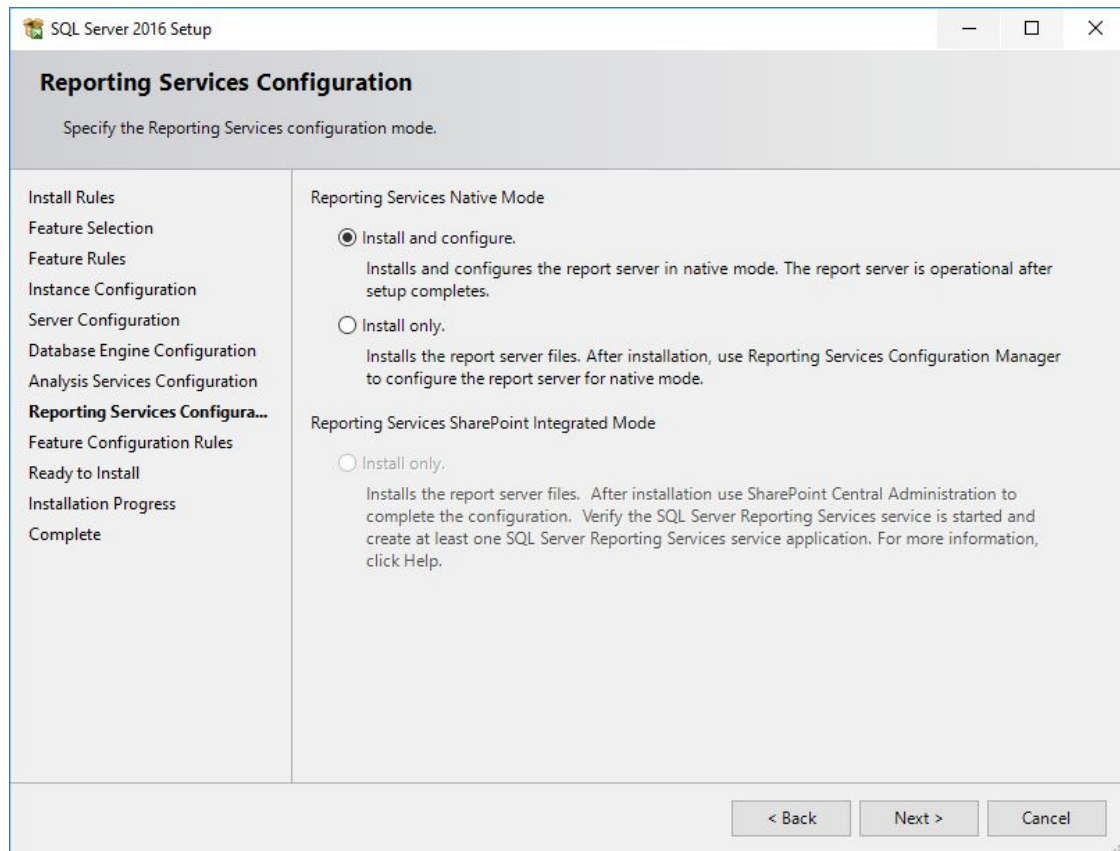
8. Make sure to click on "Add Current User". You can use either mode. You need to set a password if using mixed mode.

The screenshot shows the 'Database Engine Configuration' window in the SQL Server 2016 Setup. The left sidebar lists various configuration steps, with 'Database Engine Configuration' highlighted. The main area has tabs for 'Server Configuration', 'Data Directories', 'TempDB', and 'FILESTREAM'. Under 'Server Configuration', the 'Authentication Mode' section shows 'Mixed Mode (SQL Server authentication and Windows authentication)' selected. Below this, there are fields for 'Enter password:' and 'Confirm password:', both containing masked text. A list of SQL Server administrators shows 'DESKTOP-PJTGP6\iiren (iiren)' selected. At the bottom, the 'Add Current User' button is circled in red. A note on the right states: 'SQL Server administrators have unrestricted access to the Database Engine.' Navigation buttons at the bottom include '< Back', 'Next >', and 'Cancel'.

9. Make sure to click on "Add Current User".

The screenshot shows the 'Analysis Services Configuration' window in the SQL Server 2016 Setup. The left sidebar lists various configuration steps, with 'Analysis Services Configuration' highlighted. The main area has tabs for 'Server Configuration' and 'Data Directories'. Under 'Server Configuration', the 'Server Mode' section shows 'Multidimensional and Data Mining Mode' selected. Below this, there are fields for 'Enter password:' and 'Confirm password:', both containing masked text. A list of Analysis Services administrators shows 'DESKTOP-PJTGP6\iiren (iiren)' selected. At the bottom, the 'Add Current User' button is circled in red. A note on the right states: 'Analysis Services administrators have unrestricted access to Analysis Services.' Navigation buttons at the bottom include '< Back', 'Next >', and 'Cancel'.

10.



11. Once SQL Server is installed, restart, then run SSMS-Setup-ENU.exe <https://msdn.microsoft.com/en-us/library/mt238290.aspx> to install "SQL Server Management Studio".

12. Run "Microsoft SQL Server Management Studio".  
You can login with "Windows Authentication". Or if you selected mixed mode during installation, you can also use "SQL Server Authentication" with "sa" as your username and the password you just set.

-----Done!-----