

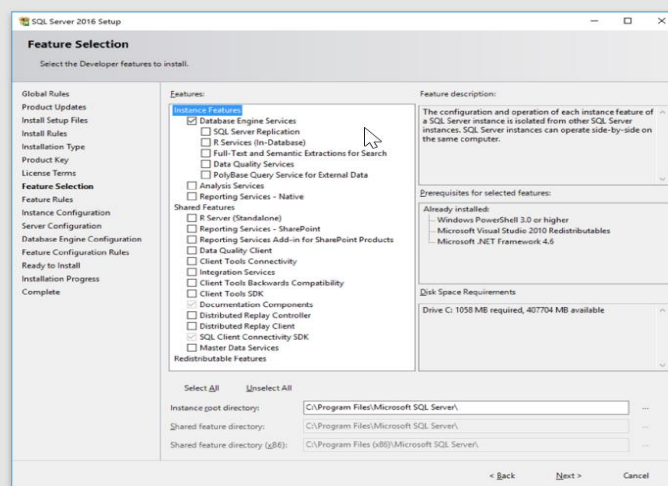
Installing SQL Server 2016

Selecting Which Features to Install

Don't just install every available feature on a Production instance of SQL Server!

Only install features you actually need
Reduces attack and patching surface
Reduces resource usage
Other features can easily be installed later
Use a development instance to experiment
Developer Edition: free and has all features

Feature Selection Screen



Instance Configuration

Choose between default instance or a named instance

16-character limit for name of a named instance

More common for Production servers to only have single instance of SQL Server installed

Multiple instances are more useful for development and testing

Instance Configuration Screen

The screenshot shows the 'Instance Configuration' window in the SQL Server 2016 Setup. The left sidebar lists various setup steps, with 'Instance Configuration' highlighted. The main area is titled 'Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.' It features a 'Default instance' radio button selected, with 'MSSQLSERVER' entered in the 'Instance ID' field. Below, the 'SQL Server directory' is set to 'C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSERVER'. A table titled 'Installed instances' shows one entry: 'Shared Components' with instance ID '<Shared Components>', features 'SSMS, Adv_SSMS', edition 'Enterprise', and version '13.0.15900.1'. Navigation buttons '< Back', 'Next >', and 'Cancel' are at the bottom.

Instance Name	Instance ID	Features	Edition	Version
<Shared Components>	<Shared Components>	SSMS, Adv_SSMS	Enterprise	13.0.15900.1

Server Configuration

You need to
specify accounts
for each SQL
Server-related
service

You will need the
account name and
password for each
account

Make sure to
change SQL
Server Agent
service to
automatic startup

Server Configuration Screen

The screenshot shows the 'Server Configuration' window in the SQL Server 2016 Setup. The left sidebar highlights 'Server Configuration'. The main area is titled 'Specify the service accounts and collation configuration.' It has two tabs: 'Service Accounts' (selected) and 'Collation'. A note states: 'Microsoft recommends that you use a separate account for each SQL Server service.' Below is a table for configuring service accounts.

Service	Account Name	Password	Startup Type
SQL Server Agent	SQLLAKES001\Glenn	*****	Automatic
SQL Server Database Engine	SQLLAKES001\Glenn	*****	Automatic
SQL Server Browser	NT AUTHORITY\LOCAL SERVICE		Disabled

Below the table, there is a checkbox 'Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service' which is checked. A warning message follows: '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.' with a link 'Click here for details'.

Database Engine - Server Configuration

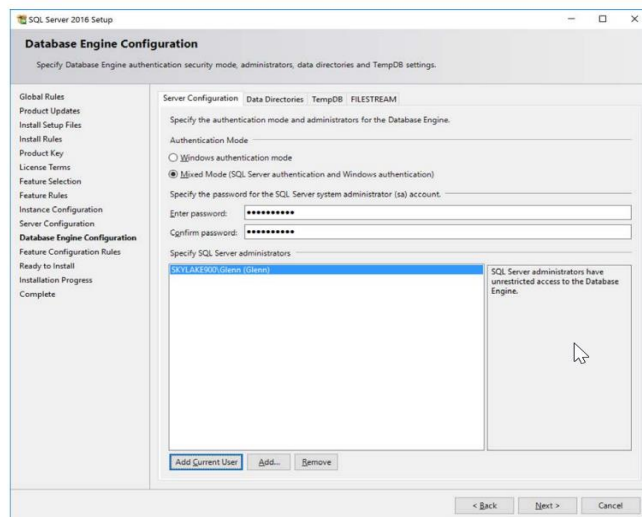
Choose authentication mode

Many applications require mixed mode authentication

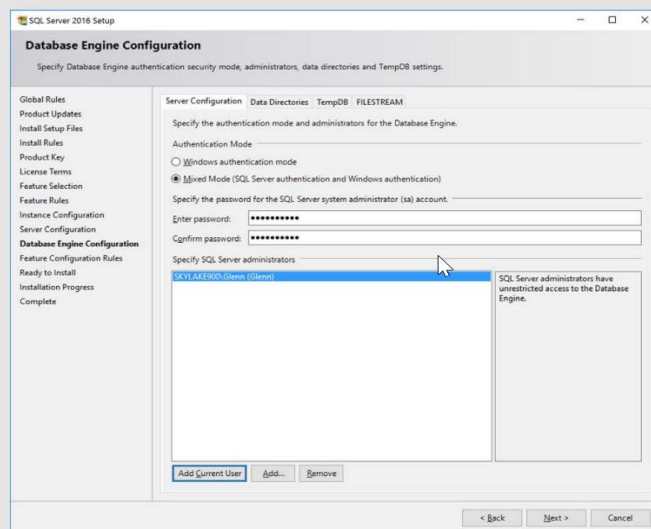
Specify a strong sa password that you won't forget!

You should add at least one SQL Server administrator

Database Engine – Server Configuration Tab



Database Engine – Server Configuration Tab



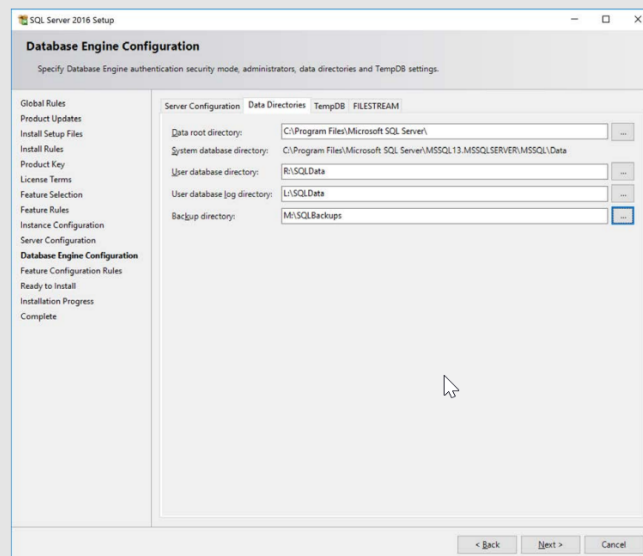
Data Directories Configuration

Specify default directory for user database data files

Specify default directory for user database log files

Specify default directory for database backup files

Database Engine – Data Directories Tab



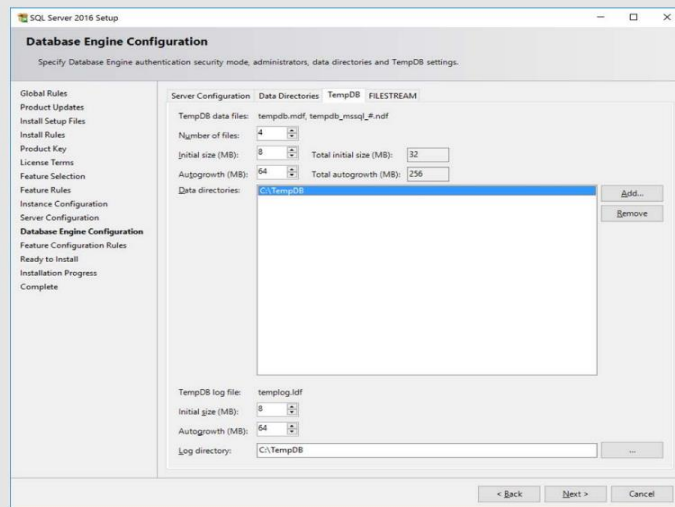
tempdb Configuration

Specify default directory for tempdb data and log files

Specify number of data files, sizes, and autogrowth increments

You will probably want to manually increase initial sizes and autogrowth values after setup

Database Engine – TempDB Tab



FILESTREAM Configuration

**Enable
FILESTREAM for
Transact-SQL
access**

**Enable
FILESTREAM for
file I/O streaming
access**

**Specify Windows
share name**

**Allow remote
clients streaming
access to
FILESTREAM data**

**Only enable
FILESTREAM if
you will be using
it!**

Database Engine – FILESTREAM Tab

