

Top-Up Contents

Installing , Configuring and Upgrading a Database

Objective

Installation of SQL Server

Understand the Configuration requirements

Upgrading of SQL server from previous versions

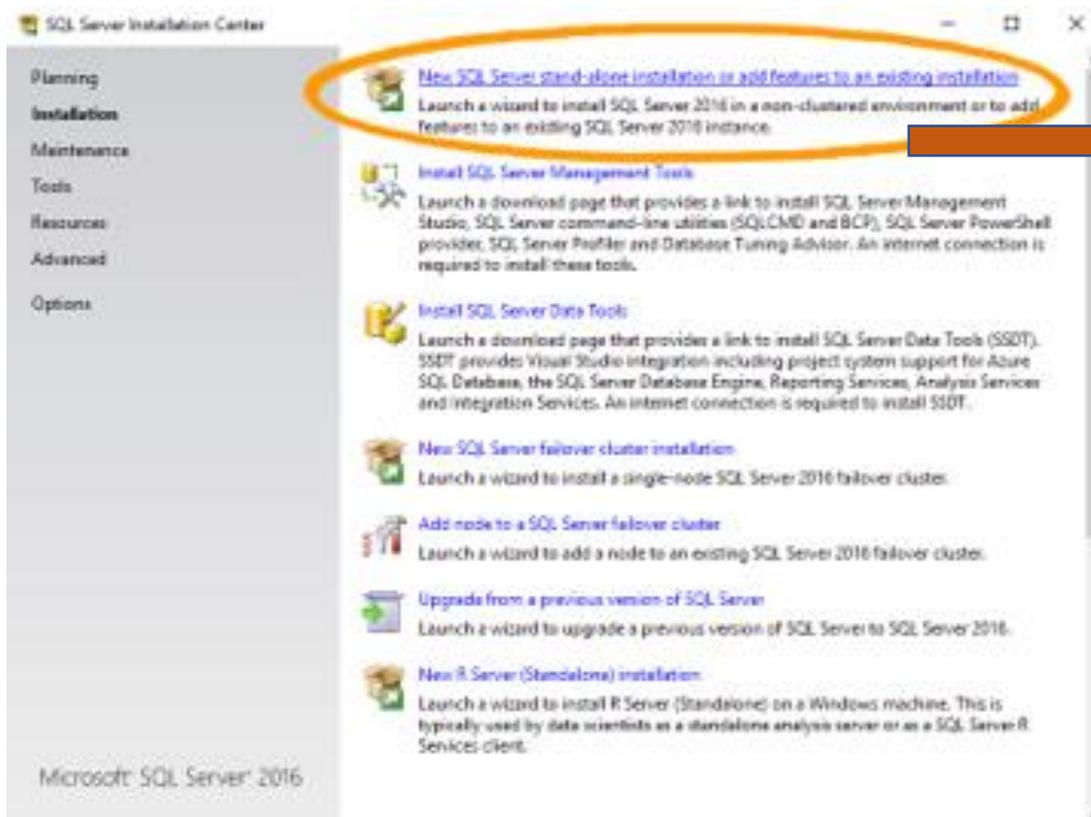
Upgrade and install additional tools or services

Install SQL Server

Download the installation files from the Microsoft website. The Express edition is a free download, as is the Developer edition

SQL Server can be installed with the SQL Server Installation Wizard

Installation Wizard

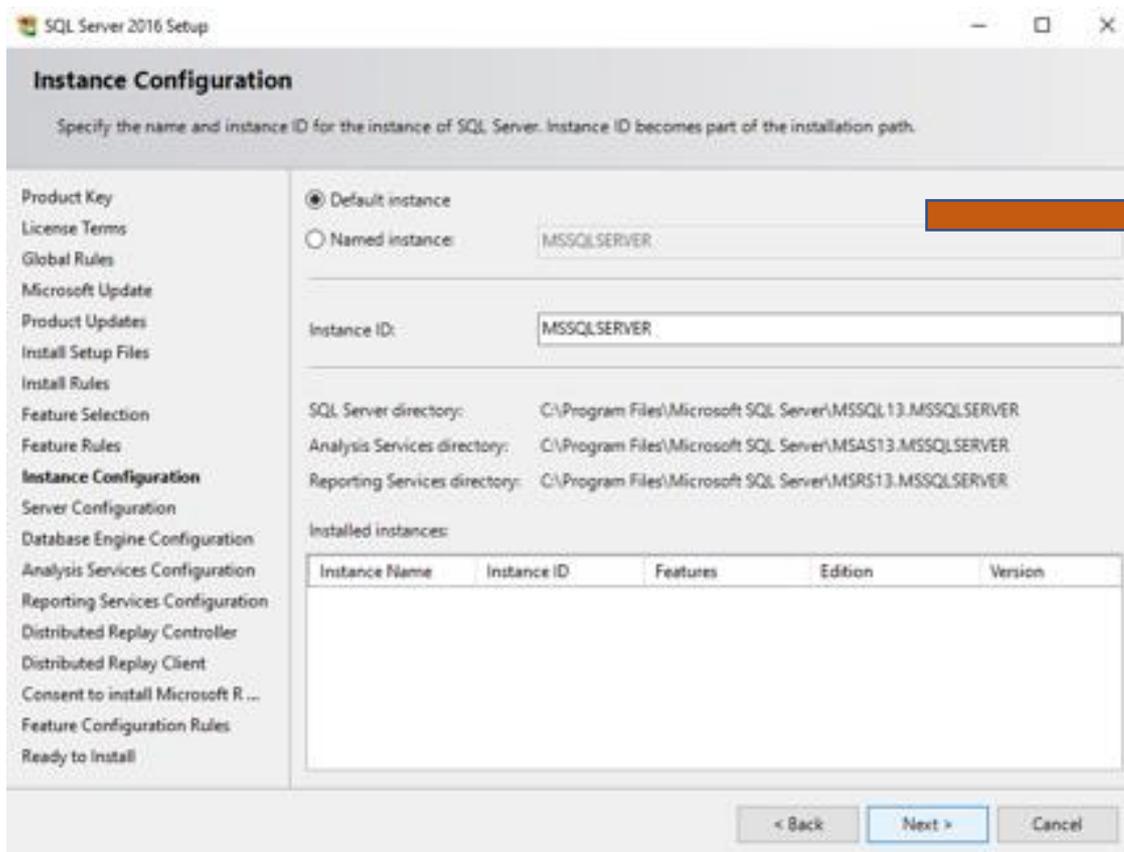


Ensure that **Installation** is selected in the left menu, click the first option,

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

to start the installation process.

Instance Configuration



The screenshot shows the 'Instance Configuration' window in 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 options like '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', 'Analysis Services Configuration', 'Reporting Services Configuration', 'Distributed Replay Controller', 'Distributed Replay Client', 'Consent to install Microsoft R ...', 'Feature Configuration Rules', and 'Ready to Install'. The 'Instance Configuration' section is active. It contains two radio buttons: 'Default instance' (selected) and 'Named instance:'. Below the 'Named instance' radio button is a text box containing 'MSSQLSERVER'. Below that is an 'Instance ID:' label followed by a text box also containing 'MSSQLSERVER'. Further down are three text boxes for directory paths: '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'. At the bottom is an 'Installed instances:' 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'. An orange arrow points from the 'Named instance' radio button area towards the right.

An instance is an installation of SQL Server.

An instance is an exact copy of the same software.

There are two types of instances in SQL Server

- a) Default
- b) Named.

Default instance service name is MSSQLSERVER.

Server Configuration

AUTHENTICATION

Windows authentication mode

- centralize account administration -Active Directory - Integrated security
- specific Windows user and group accounts can be configured to log in to SQL Server
- uses encryption to authenticate SQL Server users

Mixed authentication mode

- Windows credentials but supplements them with local SQL Server user accounts
- Less secure

Upgrade SQL Server

- Using Installation Wizard
- When you upgrade SQL Server, the previous version of SQL Server will be overwritten and will no longer exist on your computer
- back up SQL Server databases and other objects associated with the previous SQL Server instance

The End