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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

1 SQL Server Installation Center

Planning

Installation

Maintenance

Toets

Resources

Advanced

Options

New 552, Server stand-alone installation is add features to an existing installation Laurch a wixed to install 503. Server 2016 in a non-clustered environment or to add features to an existing 503. Server 2016 instance.

17 Install SQL Server Management Tools

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Learnch 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 Turning Advisor. An internet connection is required to install these tools.

Install SQL Server Data Tools

Learnch a download page that provider a link to install SQL Server Data Tools (SSDT). SSDT provides Vioual Studio integration including project system support for Acure 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 feilerver sluster installation

Lourich a witard to install a single-node SGL Server 2016 tailover cluster.

Add node to a SQL Server failover cluster

Laurich a witard to add a node to an existing SCIL Server 2016 failuver cluster.

Upgrade from a previous version of SQL Server

Launch a witard to upgrade a previous version of SCE. Server to SCE. Server 2018.

New R Server (Standalone) installation

Laurch a wized to instal 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.

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.

an NTUC Social Enterprise

Microsoft SQL Server 2016



Instance Configuration

SQL Server 2016 Setup Instance Configuration Specify the name and instance	ID for the instance of SQL Sen	er. Instance ID becomes part of the insta	- D	 An instance is an installation of SQL Server. 	
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 Reporting Services Configuration Distributed Replay Controller Distributed Replay Controller Distributed Replay Client Consent to install Microsoft R Feature Configuration Rules	Default instance Named instance Instance ID:	MSSQLSERVER MSSQLSERVER		An instance is an exact copy of the same software.	
	SQL Server directory: Analysis Services directory: Reporting Services directory Installed instances:	C\Program Files\Microsoft SQL Server C\Program Files\Microsoft SQL Server C\Program Files\Microsoft SQL Server	MSSQL13.MSSQLSERVER MSAS13.MSSQLSERVER MSRS13.MSSQLSERVER	There are two types of instances in SQL Server	
	Instance Name Insta	ince ID Features E	idition Version	b) Named. Default instance service name	
Ready to install	< Back Next > Cancel			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



SQL Server Management Studio

	Provide State of the second state of the	Graphical User Interface
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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