

# Install SQL Server Express and SQL Server Management Studio

## Introduction

CO859 Database Theory makes use of SQL Server Express from Microsoft. However, the concepts are applicable to any relational database system. Specifically we're using **SQL Server 2017 Express Edition**. For the purposes of the course the differences between SQL Server 2014 and 2017 are irrelevant.

## SQL Server Express 2014

- Doesn't require Windows 10
- Only install this version if you don't have Windows 10, otherwise install SQL Server Express 2017
- Download: **SQL Server 2014 Express** [\\_\(https://www.microsoft.com/en-in/download/details.aspx?id=42299\)](https://www.microsoft.com/en-in/download/details.aspx?id=42299)
- Be sure to download and install **ExpressAndTools 32BIT\SQLEXPRTW\_x86\_ENU.exe** or **ExpressAndTools 64BIT\SQLEXPRTW\_x64\_ENU.exe** as appropriate for your computer

## SQL Server Express 2017 and Management Tools

- Requires Windows 10
- Goto **SQL Server Express 2017 Express** [\\_\(https://www.microsoft.com/en-ca/sql-server/sql-server-editions-express\)](https://www.microsoft.com/en-ca/sql-server/sql-server-editions-express)
- Click **Download**



# Microsoft® SQL Server® 2017 Express

*Important!* Selecting a language below will dynamically change the complete page content to that language.

Select Language:

English

**Download**

Microsoft® SQL Server® 2017 Express is a powerful and reliable free data management system that delivers a rich and reliable data store for lightweight Web Sites and desktop applications.



[Details](#)



[System Requirements](#)



[Install Instructions](#)



[Additional Information](#)

- When download completes, open **SQLServer2017-SSEI-Expr.exe**
- Select **Custom**



SQL Server 2017



# Express Edition

Select an installation type:

## Basic

Select Basic installation type to install the SQL Server Database Engine feature with default configuration.

## Custom

Select Custom installation type to step through the SQL Server installation wizard and choose what you want to install. This installation type is detailed and takes longer than running the Basic install.

## Download Media

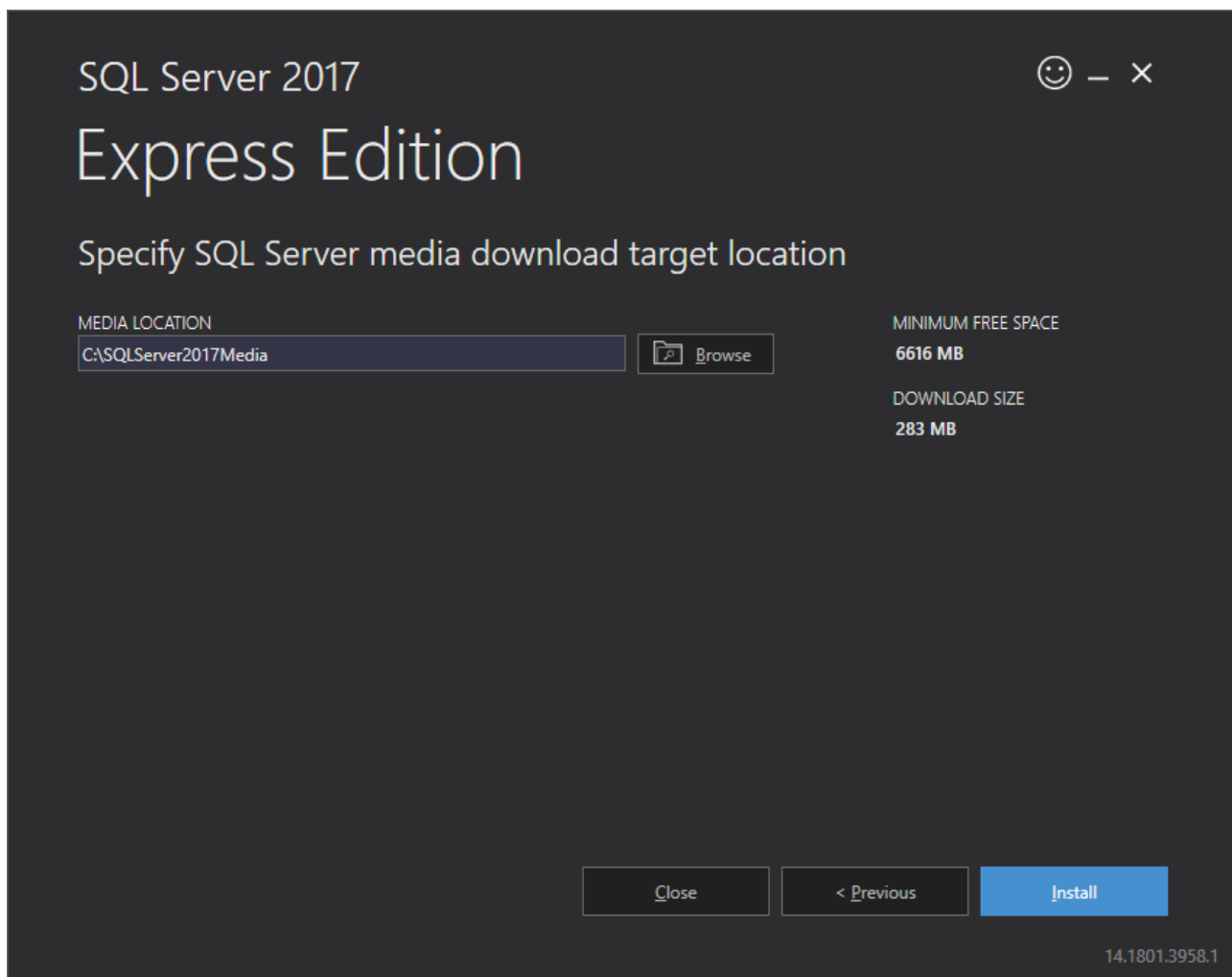
Download SQL Server setup files now and install them later on a machine of your choice.

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](#)

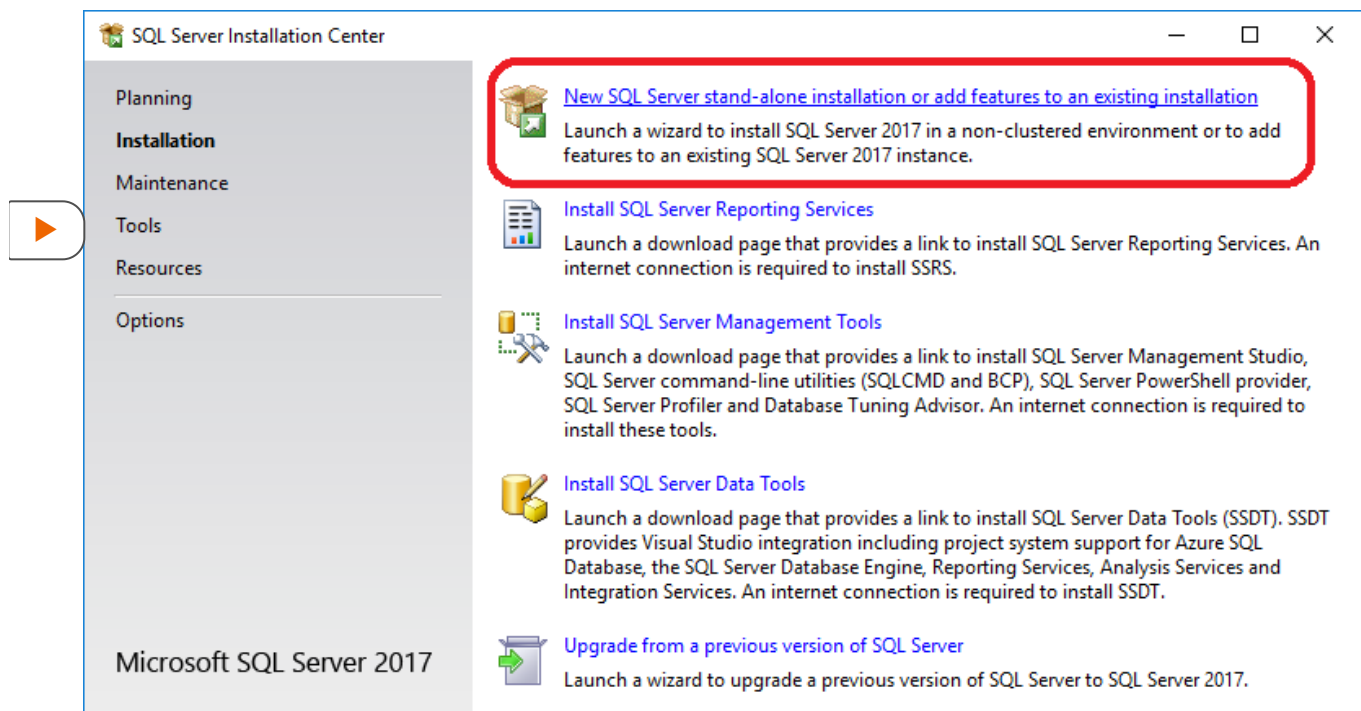
14.1801.3958.1

- Change MEDIA LOCATION if desired, click **Install**





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



- Click **Next** until Feature Selection
- Select features as shown, click **Next** until Instance Configuration

SQL Server 2017 Setup

## Feature Selection

Select the Express features to install.

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

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 Search

☐ PolyBase Query Service for External Data

Shared Features

☒ Client Tools Connectivity

☒ Client Tools Backwards Compatibility

☒ Client Tools SDK

☒ SQL Client Connectivity SDK

☒ LocalDB

Redistributable Features

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\

Feature description:

The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on the same computer.

Prerequisites for selected features:

Already installed:

Windows PowerShell 3.0 or higher

Microsoft .NET Framework 4.6

To be installed from media:

Disk Space Requirements

Drive C: 1494 MB required, 792131 MB available

< Back Next > Cancel

- Accept Named instance of SQLEXPRESS, click **Next** until Server Configuration



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.

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

Installation Progress

Complete

☐ Default instance

☒ Named instance:

---

Instance ID:

---

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL14.SQLEXPRESS

Installed instances:

Instance Name	Instance ID	Features	Edition	Version

< Back

Next >

Cancel

- For the SQL Server Database Engine, you may optionally leave Startup Type as Automatic or set it to Manual; if set to Manual, you will have to start the database before use each time; if set to Automatic, the database will always be running and consuming memory and CPU
- Click **Next** until Database Engine Configuration



SQL Server 2017 Setup

## Server Configuration

Specify the service accounts and collation configuration.

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  
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 Database Engine	NT Service\MSSQL\$SQLEXP...		Manual
SQL Server Browser	NT AUTHORITY\LOCAL SE...		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

- Click Add Current User button if necessary to ensure that you have full administrative access, click **Next** until install begins



SQL Server 2017 Setup

## Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.

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  
Installation Progress  
Complete

Server Configuration | Data Directories | TempDB | User Instances | 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

COMPUTER\User (first.last)	
	SQL Server administrators have unrestricted access to the Database Engine.

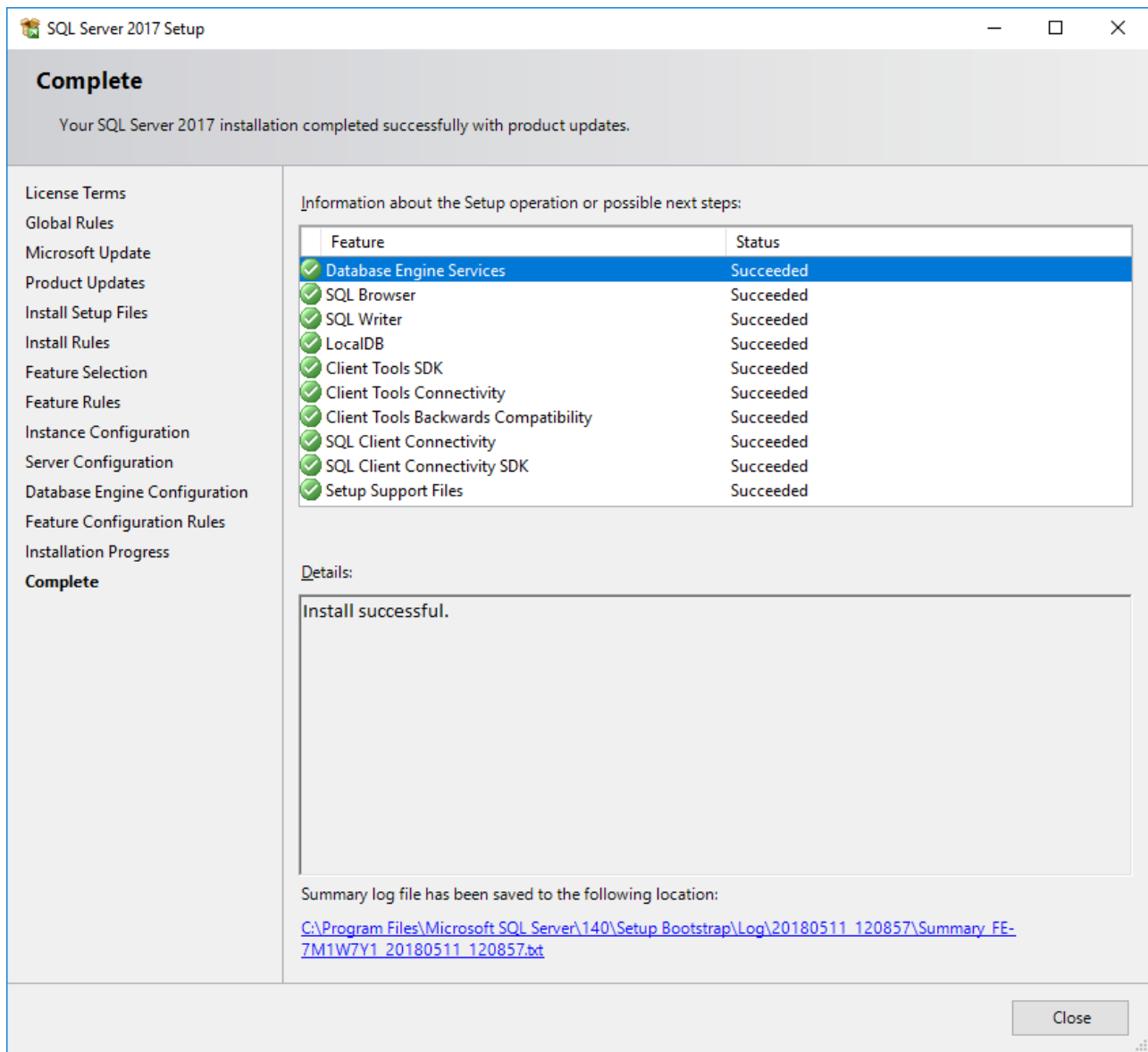
Add Current User Add... Remove

< Back Next > Cancel

- Once the install completes, click **Close**

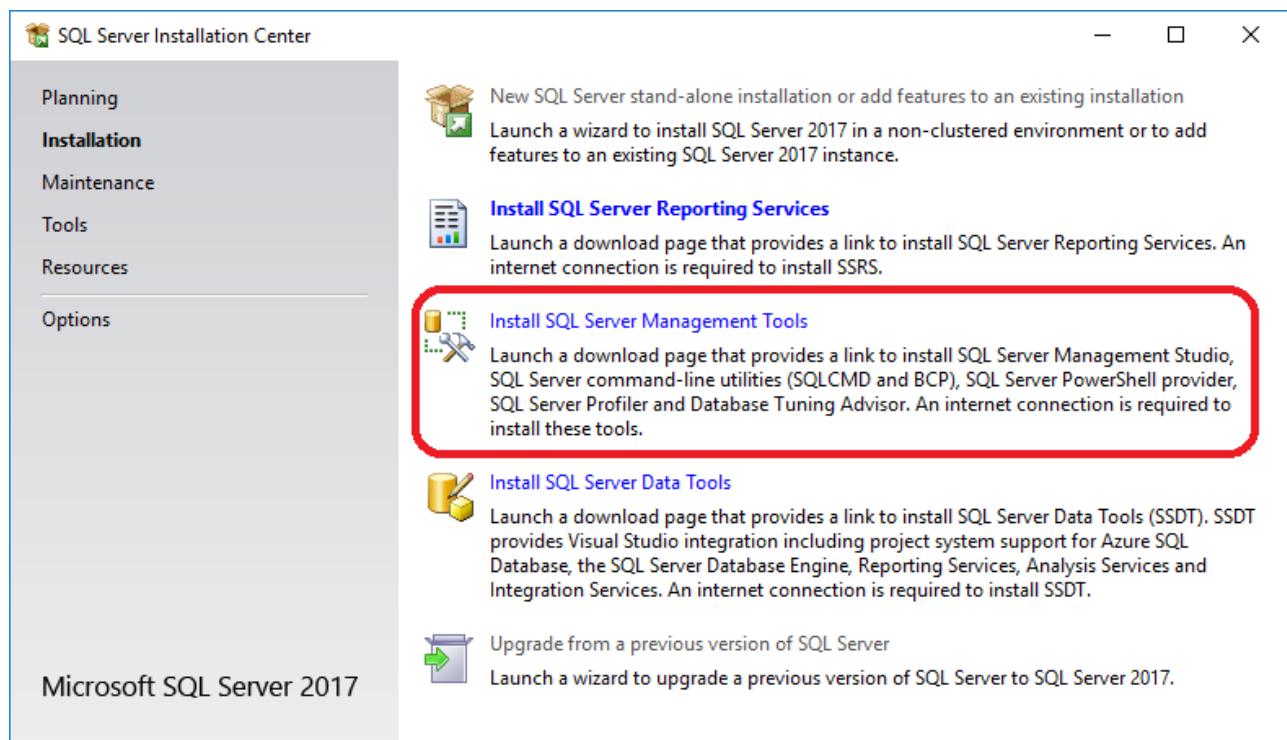






- Click **Install SQL Server Management Tools**, you will be taken to the web to download it





- Click **Download SQL Server Management Studio (SSMS)**

## Download SQL Server Management Studio (SSMS)

04/07/2020 • 4 minutes to read • 👤👤👤👤👤 +27

**APPLIES TO:** ✓ SQL Server ✓ Azure SQL Database ✓ Azure Synapse Analytics (SQL DW) ✗ Parallel Data Warehouse

SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL Database. SSMS provides tools to configure, monitor, and administer instances of SQL Server and databases. Use SSMS to deploy, monitor, and upgrade the data-tier components used by your applications, and build queries and scripts.

Use SSMS to query, design, and manage your databases and data warehouses, wherever they are - on your local computer, or in the cloud.

SSMS is free!

### ▶ Download SSMS

📄 [Download SQL Server Management Studio \(SSMS\)](#)

SSMS 18.5 is the latest general availability (GA) version of SSMS. If you have a previous GA version of SSMS 18 installed, installing SSMS 18.5 upgrades it to 18.5.

- When download completes, open **SSMS-Setup-ENU.exe**, click **Install**



RELEASE 18.5

# Microsoft SQL Server Management Studio

Welcome. Click "Install" to begin.

Location:

C:\Program Files (x86)\Microsoft SQL Server Management Studio 18

Change

By clicking the "Install" button, I acknowledge that I accept the [License Terms](#) and [Privacy Statement](#).

SQL Server Management Studio 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 data processing and privacy controls, and to turn off the collection of this information after installation, see the [documentation](#).

Install

Close

