DBMS

Introduction

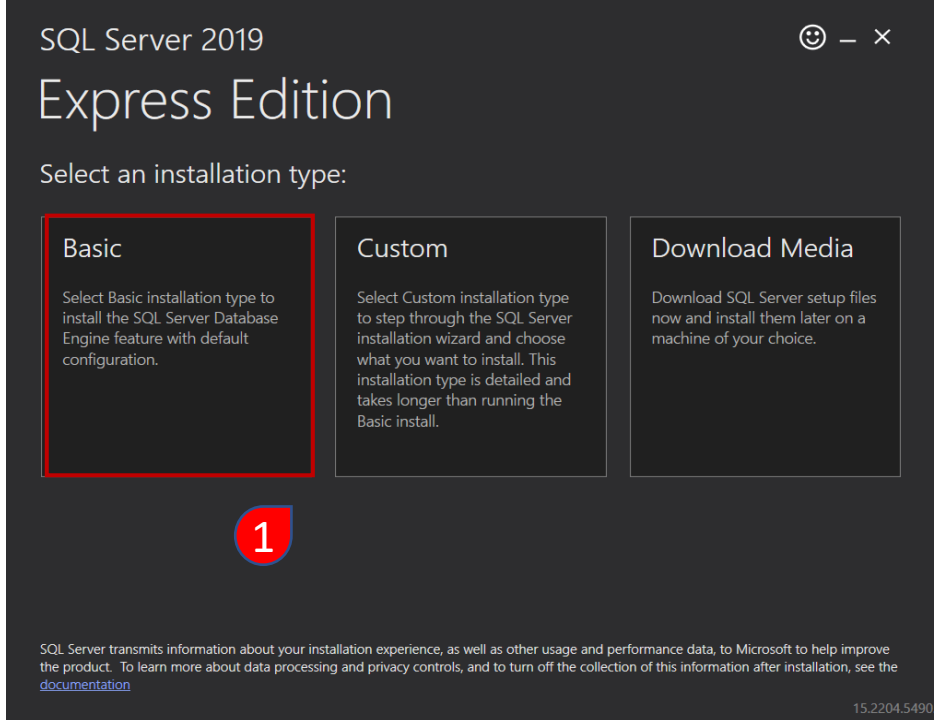
SQL Server & SQL Server Management Studio Installation - Windows

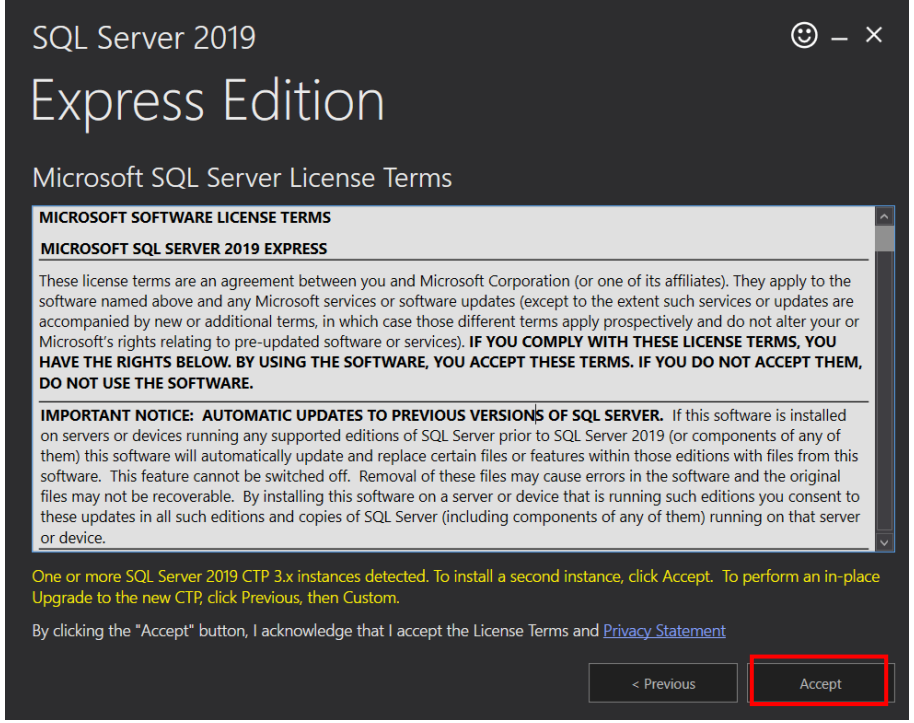
- **Windows:**

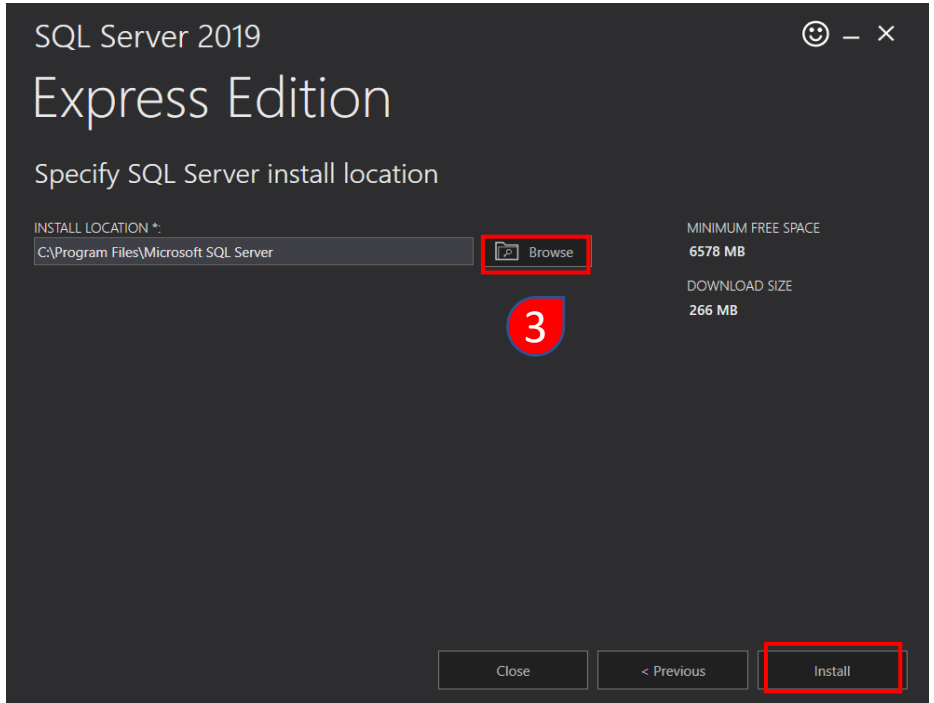
- Use the link below to download Microsoft SQL server:
  https://www.microsoft.com/en-ca/sql-server/sql-server-downloads

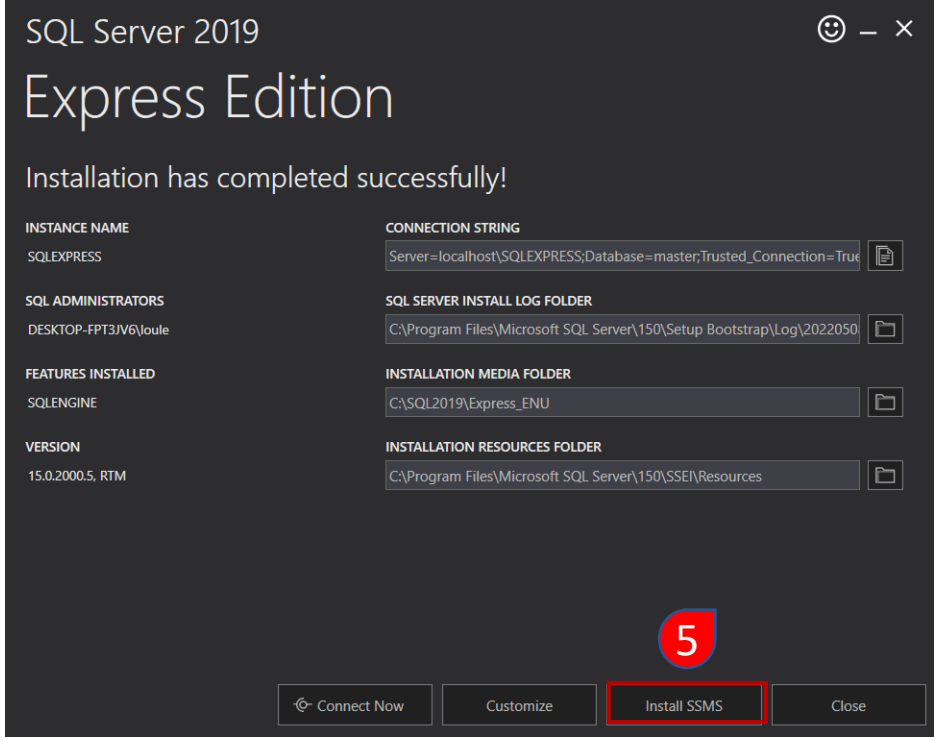
- Microsoft provides two specialized free SQL download editions to work on MS SQL server:
  - Developer
  - Express

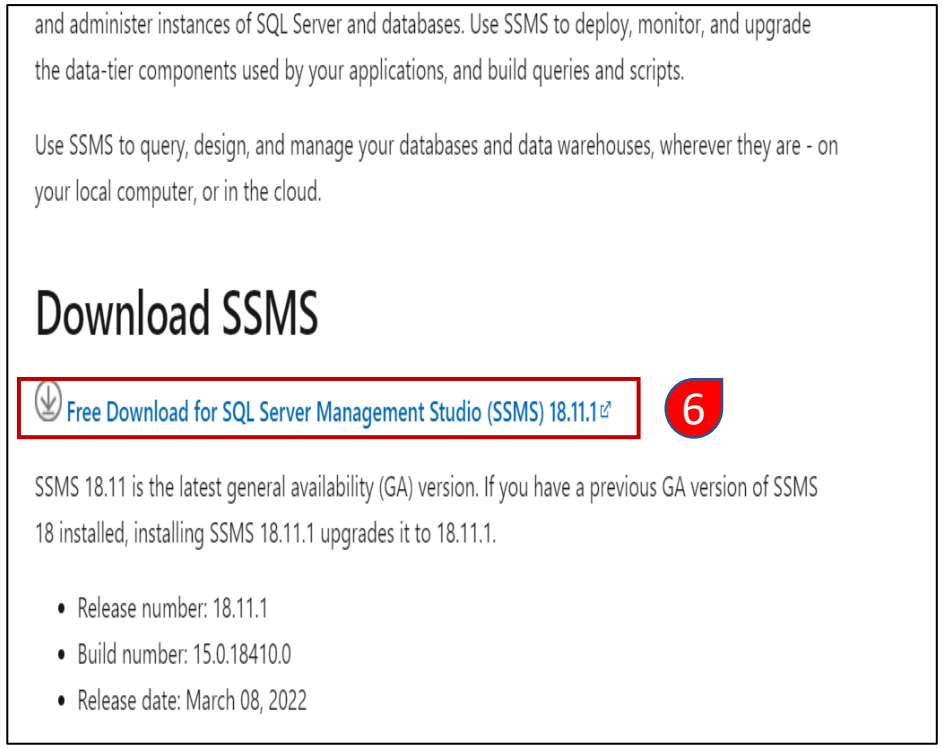
- Download the **exe** file and follow the installation steps.

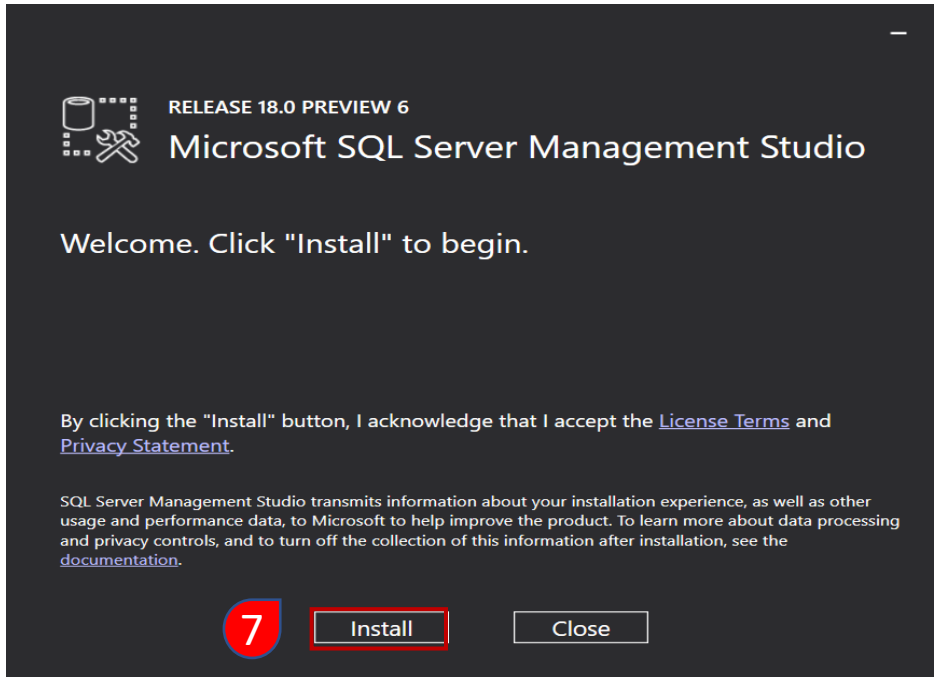

SQL Server 2019
Express Edition
Select an installation type:
Basic
Select Basic installation type to install the SQL Server Database Engine feature with default configuration.
Custom
Select Custom installation type to step through the SQL Server installation wizard and choose what you want to install. 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.
1
SQL Server 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
15.2204.5490

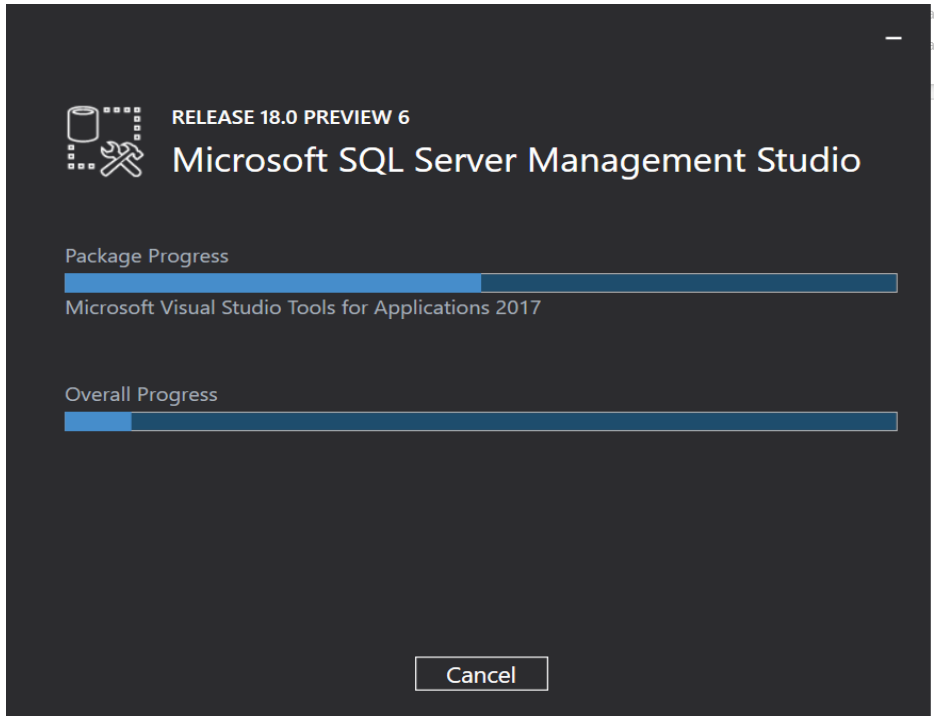

SQL Server 2019
Express Edition
Microsoft SQL Server License Terms
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT SQL SERVER 2019 EXPRESS
These license terms are an agreement between you and Microsoft Corporation (or one of its affiliates). They apply to the software named above and any Microsoft services or software updates (except to the extent such services or updates are accompanied by new or additional terms, in which case those different terms apply prospectively and do not alter your or Microsoft's rights relating to pre-updated software or services). IF YOU COMPLY WITH THESE LICENSE TERMS, YOU HAVE THE RIGHTS BELOW. BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE.
IMPORTANT NOTICE: AUTOMATIC UPDATES TO PREVIOUS VERSIONS OF SQL SERVER. If this software is installed on servers or devices running any supported editions of SQL Server prior to SQL Server 2019 (or components of any of them) this software will automatically update and replace certain files or features within those editions with files from this software. This feature cannot be switched off. Removal of these files may cause errors in the software and the original files may not be recoverable. By installing this software on a server or device that is running such editions you consent to these updates in all such editions and copies of SQL Server (including components of any of them) running on that server or device.
One or more SQL Server 2019 CTP 3.x instances detected. To install a second instance, click Accept. To perform an in-place Upgrade to the new CTP, click Previous, then Custom.
By clicking the "Accept" button, I acknowledge that I accept the License Terms and Privacy Statement
< Previous
Accept
2

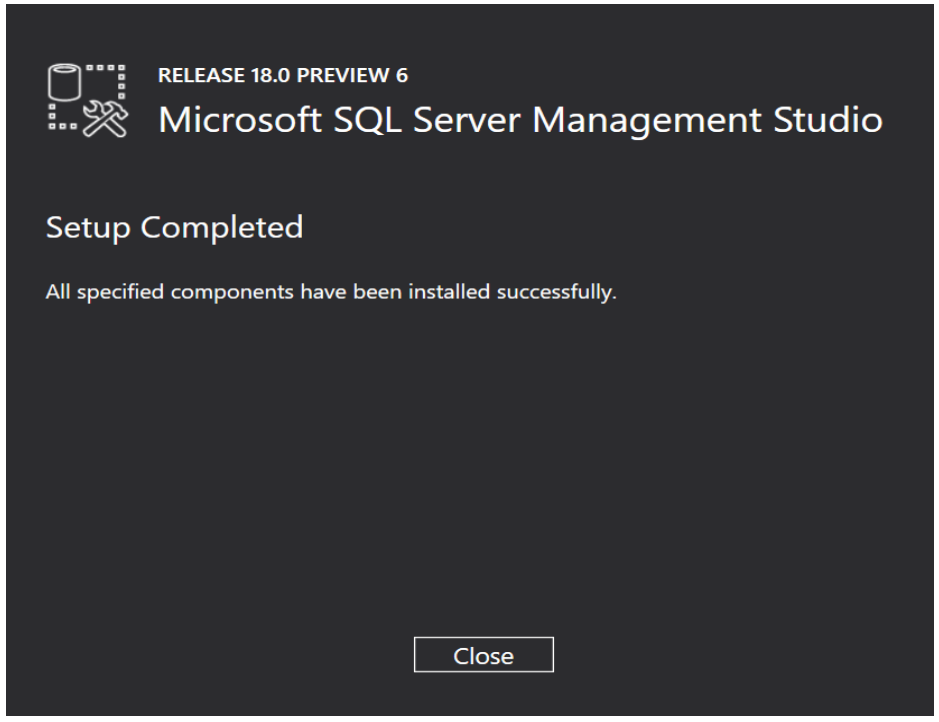

SQL Server 2019
Express Edition
Specify SQL Server install location
INSTALL LOCATION *:
C:\Program Files\Microsoft SQL Server
Browse
3
MINIMUM FREE SPACE
6578 MB
DOWNLOAD SIZE
266 MB
Close
< Previous
Install
4

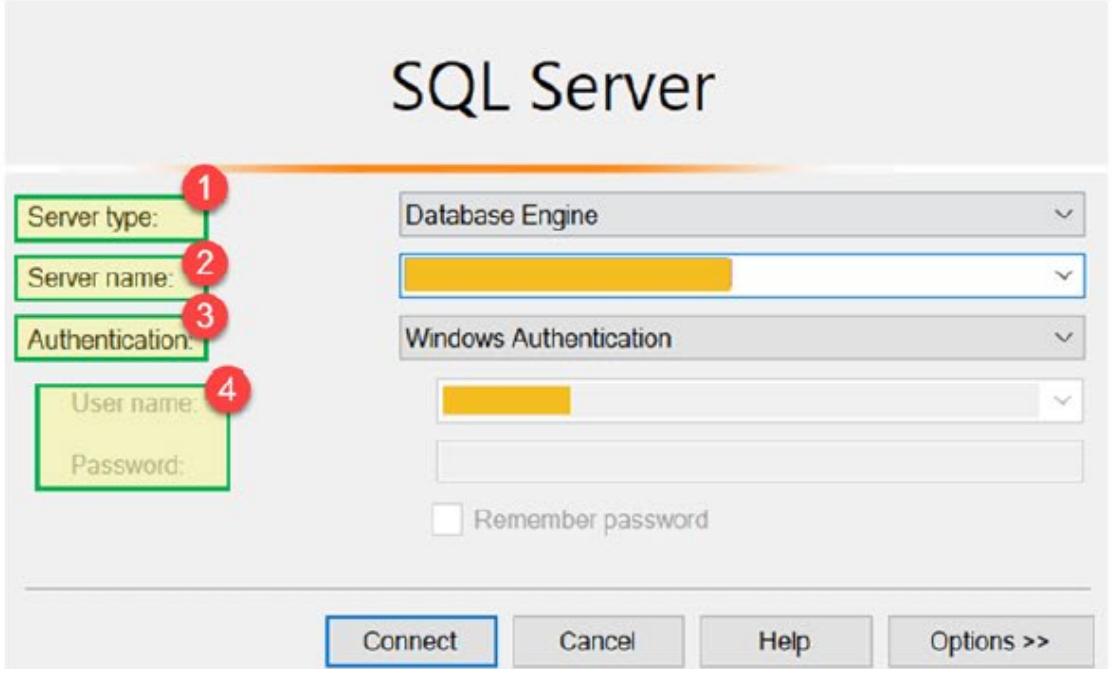

SQL Server 2019
Express Edition
Installation has completed successfully!
INSTANCE NAME
SQLEXPRESS
CONNECTION STRING
Server=localhost\SQLEXPRESS;Database=master;Trusted_Connection=True
SQL ADMINISTRATORS
DESKTOP-FPT3JV6\loule
SQL SERVER INSTALL LOG FOLDER
C:\Program Files\Microsoft SQL Server\150\Setup Bootstrap\Log\20220505
FEATURES INSTALLED
SQLENGINE
INSTALLATION MEDIA FOLDER
C:\SQL2019\Express_ENU
VERSION
15.0.2000.5, RTM
INSTALLATION RESOURCES FOLDER
C:\Program Files\Microsoft SQL Server\150\SSEI\Resources
5
Connect Now
Customize
Install SSMS
Close


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.
Download SSMS
Free Download for SQL Server Management Studio (SSMS) 18.11.1
6
SSMS 18.11 is the latest general availability (GA) version. If you have a previous GA version of SSMS 18 installed, installing SSMS 18.11.1 upgrades it to 18.11.1.
Release number: 18.11.1
Build number: 15.0.18410.0
Release date: March 08, 2022


RELEASE 18.0 PREVIEW 6
Microsoft SQL Server Management Studio
Welcome. Click "Install" to begin.
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.
7
Install
Close


RELEASE 18.0 PREVIEW 6
Microsoft SQL Server Management Studio
Package Progress
Microsoft Visual Studio Tools for Applications 2017
Overall Progress
Cancel


RELEASE 18.0 PREVIEW 6
Microsoft SQL Server Management Studio
Setup Completed
All specified components have been installed successfully.
Close


SQL Server
1
Server type:
Database Engine
2
Server name:
3
Authentication:
Windows Authentication
4
User name:
Password:
Remember password
Connect
Cancel
Help
Options >>

SQL Server Installation - Mac

- Mac users can install using docker

  Install Docker Desktop on Mac | Docker Documentation

- How to Install MS SQL Server on Mac and Create Databases - Step by Step

  How to Install MS SQL Server on Mac and Create Databases - Step by Step - YouTube

SQL Server Installation - Mac

- Download the Windows SQL Server Image for Docker. Open your CMD, you may need to run it in Admin, and run:

  ```
  docker pull mcr.microsoft.com/mssql/server:2019-latest
  ```

- Run the command below to create a container with the Windows 2019 server image installed:

  ```
  docker run -e "ACCEPT_EULA=Y" -e "SA_PASSWORD=Password" -p 1433:1433 --name nameDB -d mcr.microsoft.com/mssql/server:2019-latest
  ```

- Install Azure Data Studio using the link below:

  Download and install Azure Data Studio - Azure Data Studio | Microsoft Docs

- Open Azure Data Studio and select New Connection. Add the server name, username and password.

SQL Server Installation - Linux

- Import the public repository GPG keys:

  ```
  sudo apt-get update
  sudo apt-get -y upgrade
  ```

- Register the Microsoft SQL Server Ubuntu repository for SQL Server 2019

  ```
  sudo add-apt-repository "$(wget -qO- https://packages.microsoft.com/config/ubuntu/20.04/mssql-server-2019.list)"
  ```

- Run the following commands to install SQL Server:

  ```
  sudo apt update
  sudo apt install mssql-server
  ```

- After the package installation finishes, run mssql-conf setup and follow the prompts to set the SA password and choose your edition.

  ```
  sudo /opt/mssql/bin/mssql-conf setup
  ```

- Once the configuration is done, verify that the service is running:

  ```
  systemctl status mssql-server.service
  ```

- Now install the SQL Server command-line tools. Import the public repository GPG keys.

  ```
  curl https://packages.microsoft.com/keys/microsoft.asc | sudo apt-key add –
  ```

SQL Server Installation - Linux

- Register the Microsoft Ubuntu repository.

```
curl https://packages.microsoft.com/config/ubuntu/20.04/prod.list | sudo tee /etc/apt/sources.list.d/msprod.list
```

- Update the sources list and run the installation command with the unixODBC developer package

```
sudo apt update
sudo apt-get install mssql-tools unixodbc-dev
```

- Add /opt/mssql-tools/bin/ to your PATH environment variable in a bash shell

```
echo 'export PATH="$PATH:/opt/mssql-tools/bin"' >> ~/.bash_profile
source ~/.bash_profile
echo 'export PATH="$PATH:/opt/mssql-tools/bin"' >> ~/.bashrc
source ~/.bashrc
```

- Connect locally to your new SQL Server instance using the command below:

```
sqlcmd -S localhost -U SA -P '<YourPassword>'
```