

Database Essentials

Demo 1: Install and Configure MS SQL Server and SSMS



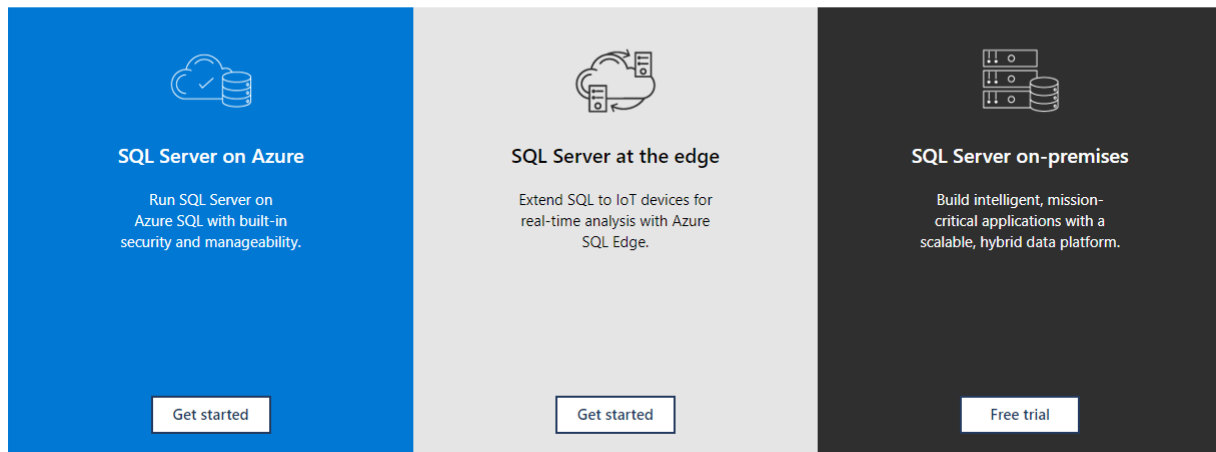
edureka!

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Install SQL Server and configure Microsoft SQL Server Management Studio (SSMS)

Step 1: Go to the official page of [Microsoft SQL Server download](#), where you will find the option to install SQL Server either on-premises or on the cloud.

Try SQL Server on-premises or in the cloud

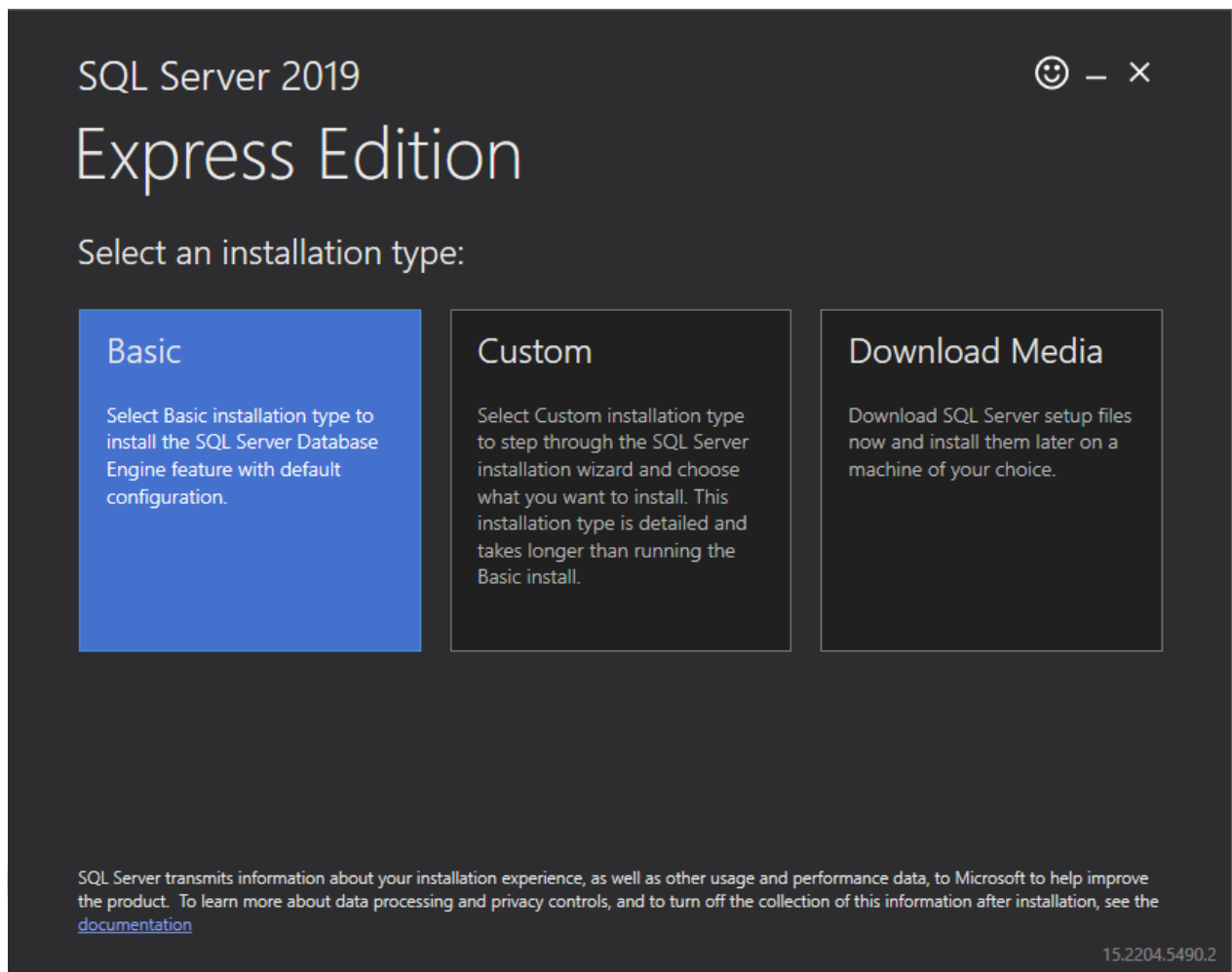


Step 2: Now, scroll down and you will see two options: **Developer & Express edition**. Here, I will be downloading the **Express edition**. To download, you just have to click on the **Download now** option. Refer below.
(You can also select **Developer edition**. The same installation and configuration steps are followed for **Developer edition**)

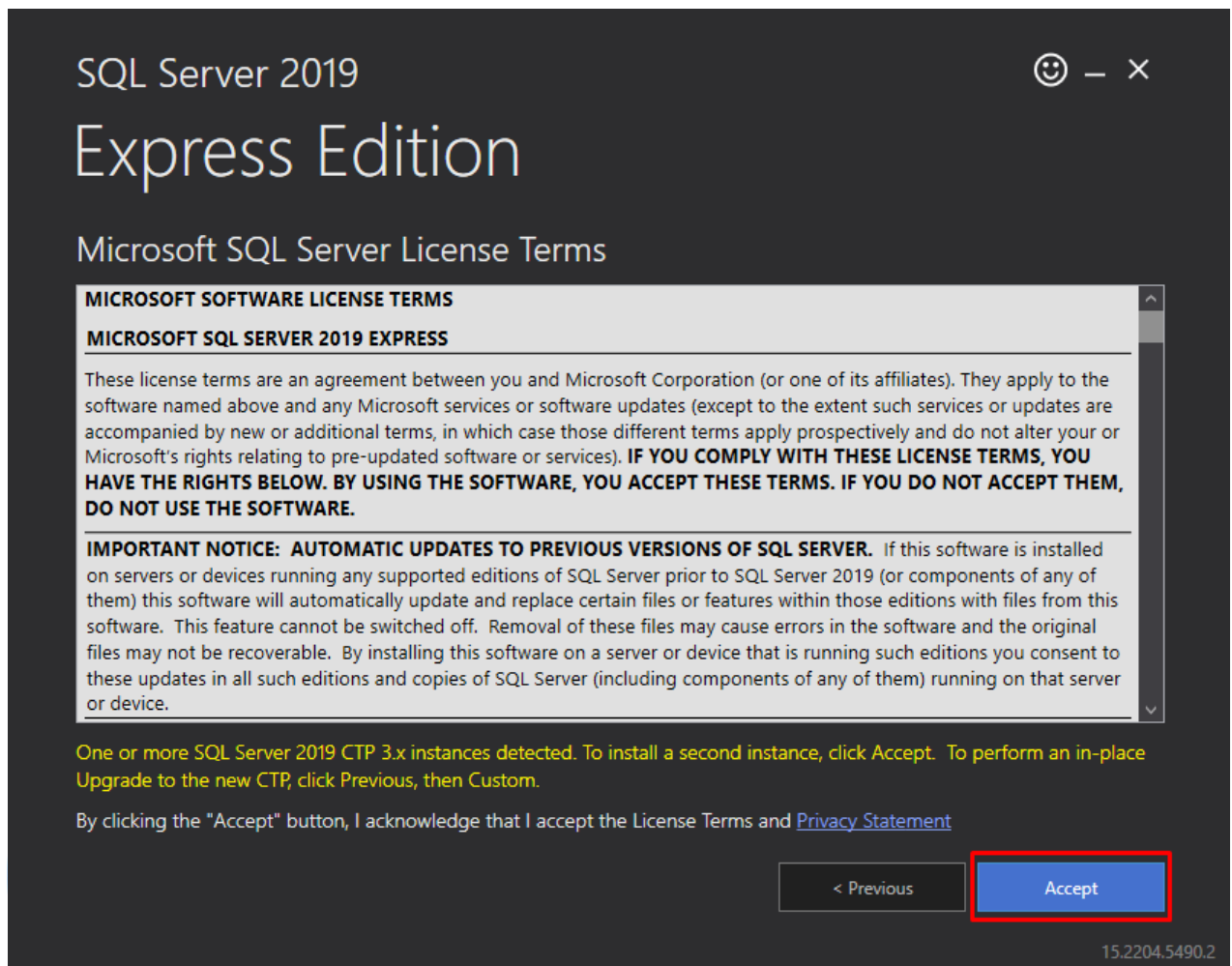
Or, download a free specialised edition



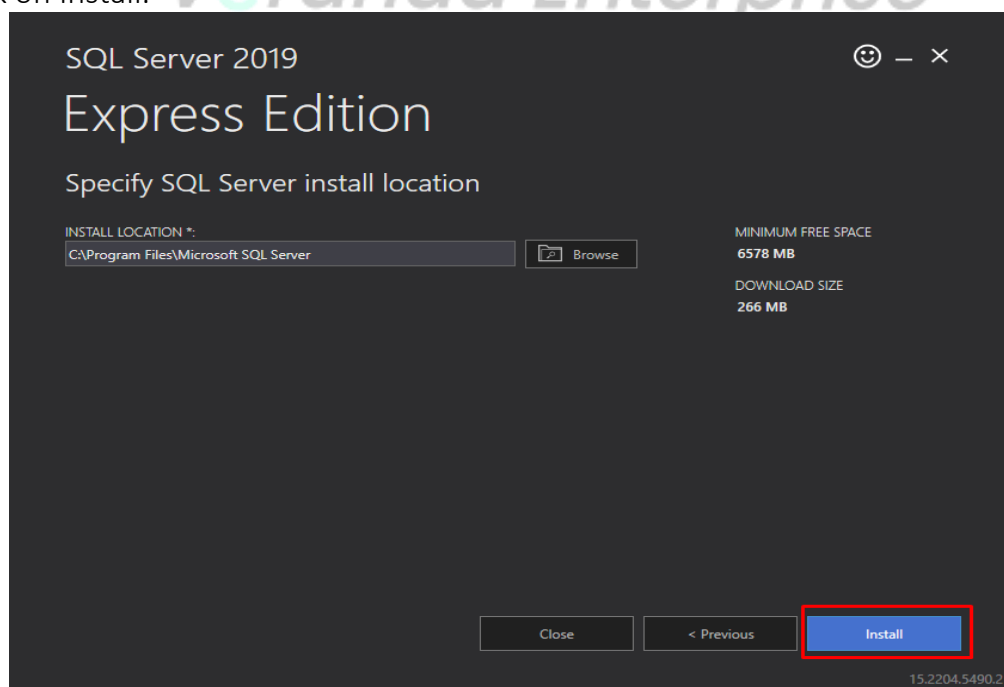
Step 3: Once the application is downloaded, double click on the file and you will see the following window.



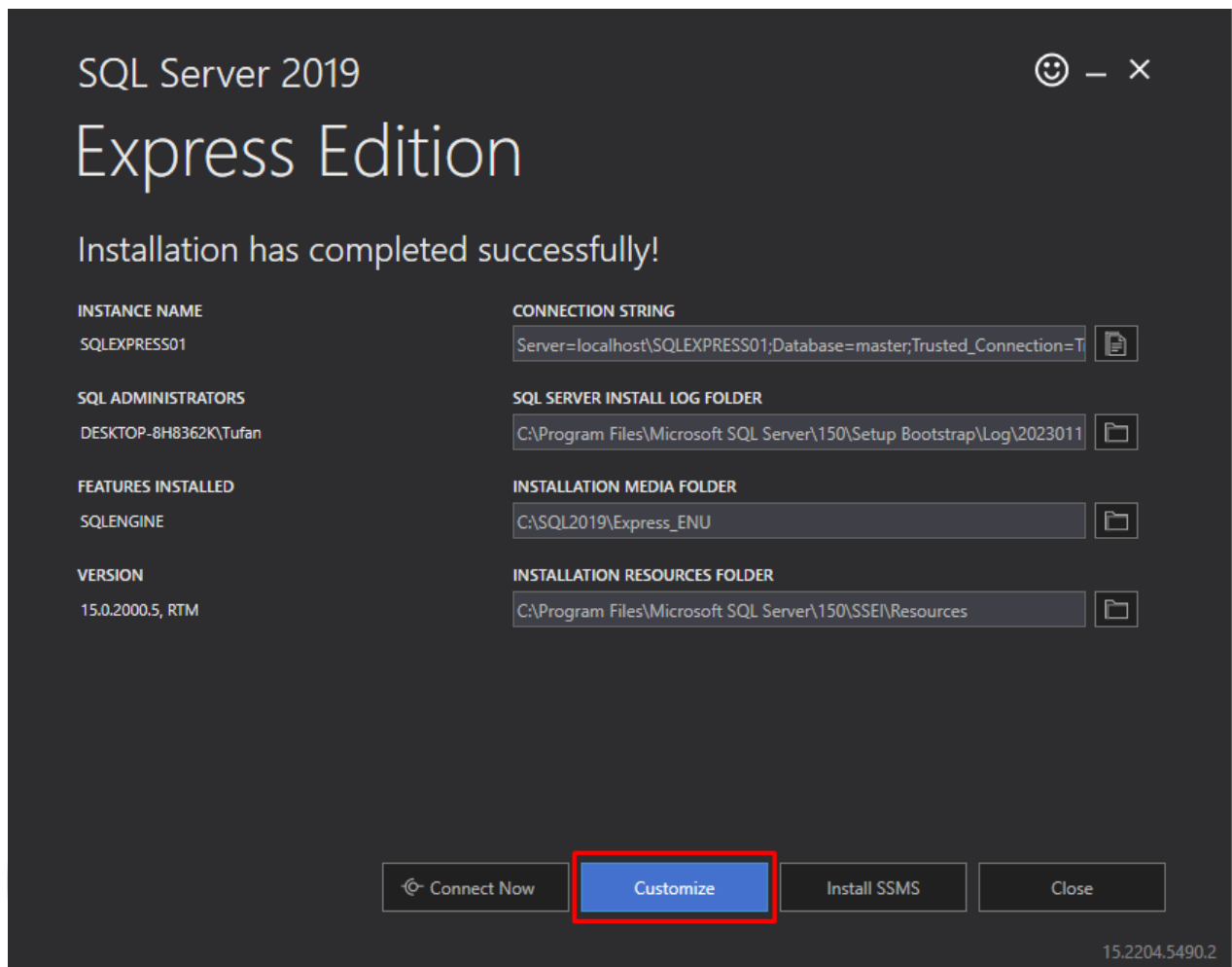
Step 4: Now, you can choose either of the 3 options to setup SQL Server. Here, I will just choose the **Basic option**. On selecting the installation type option, the next screen would be to accept the license agreement. To do that, click on **Accept** in the following window.



Step 5: Next, you have to specify the SQL Server installation location. Then, you have to click on Install.

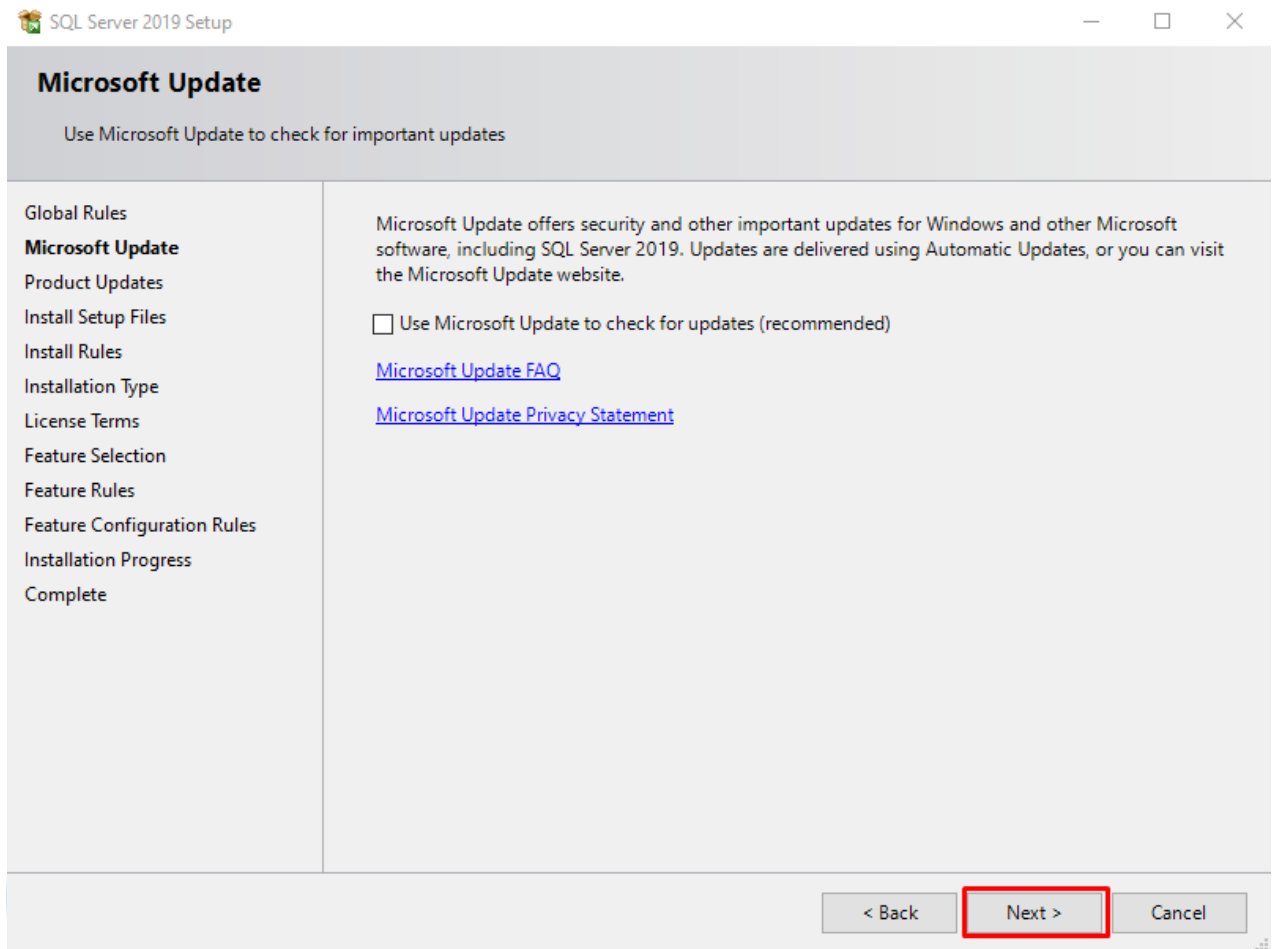


Once you click on **Install**, you will see that the required packages are getting downloaded. Now, after the installation is complete, you will see the following screen:

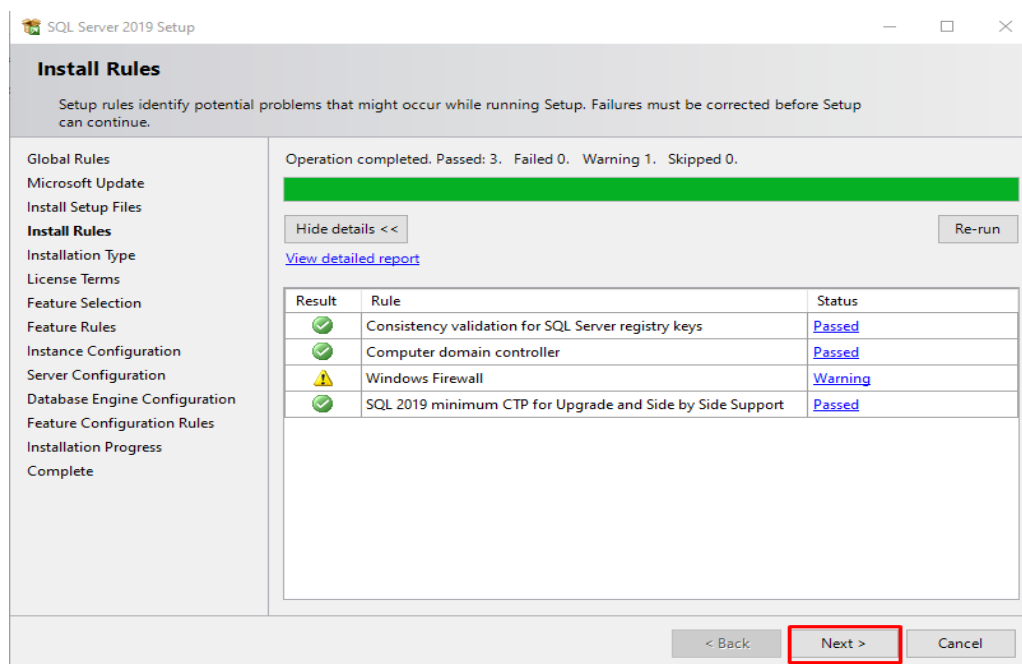


Here, you can either go forward and click on Connect Now, or you can Customize the installation. For your better understanding, I will go forward and choose **Customize**.

Step 6: Once you click on **Customize** in the above window, you will see the following wizard opening up in the following window, click on **Next**.



Step 7: After the rules get installed automatically, click on **Next**. Refer below.



Step 8: Next, you have to choose the installation type. So, choose the **Perform a new**

installation of SQL Server 2017 option and then click on Next.

SQL Server 2019 Setup

Installation Type

Perform a new installation or add features to an existing instance of SQL Server 2019.

Global Rules
Microsoft Update
Install Setup Files
Install Rules
Installation Type
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Installation Progress
Complete

☒ Perform a new installation of SQL Server 2019

Select this option if you want to install a new instance of SQL Server or want to install shared components.

☐ Add features to an existing instance of SQL Server 2019

SQLEXPRESS

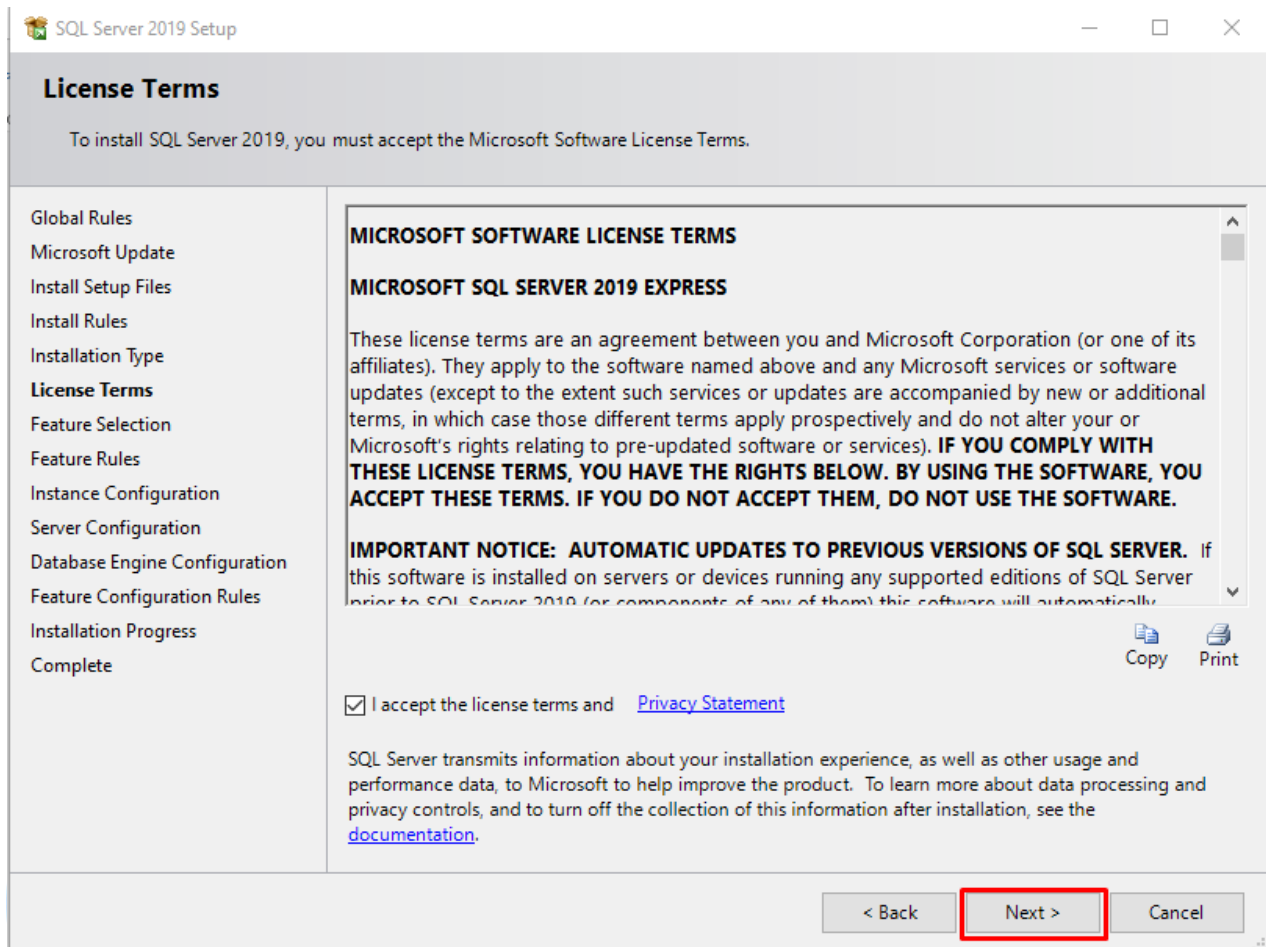
Select this option if you want to add features to an existing instance of SQL Server. For example, you want to add the Analysis Services features to the instance that contains the Database Engine. Features within an instance must be the same edition.

Installed instances:

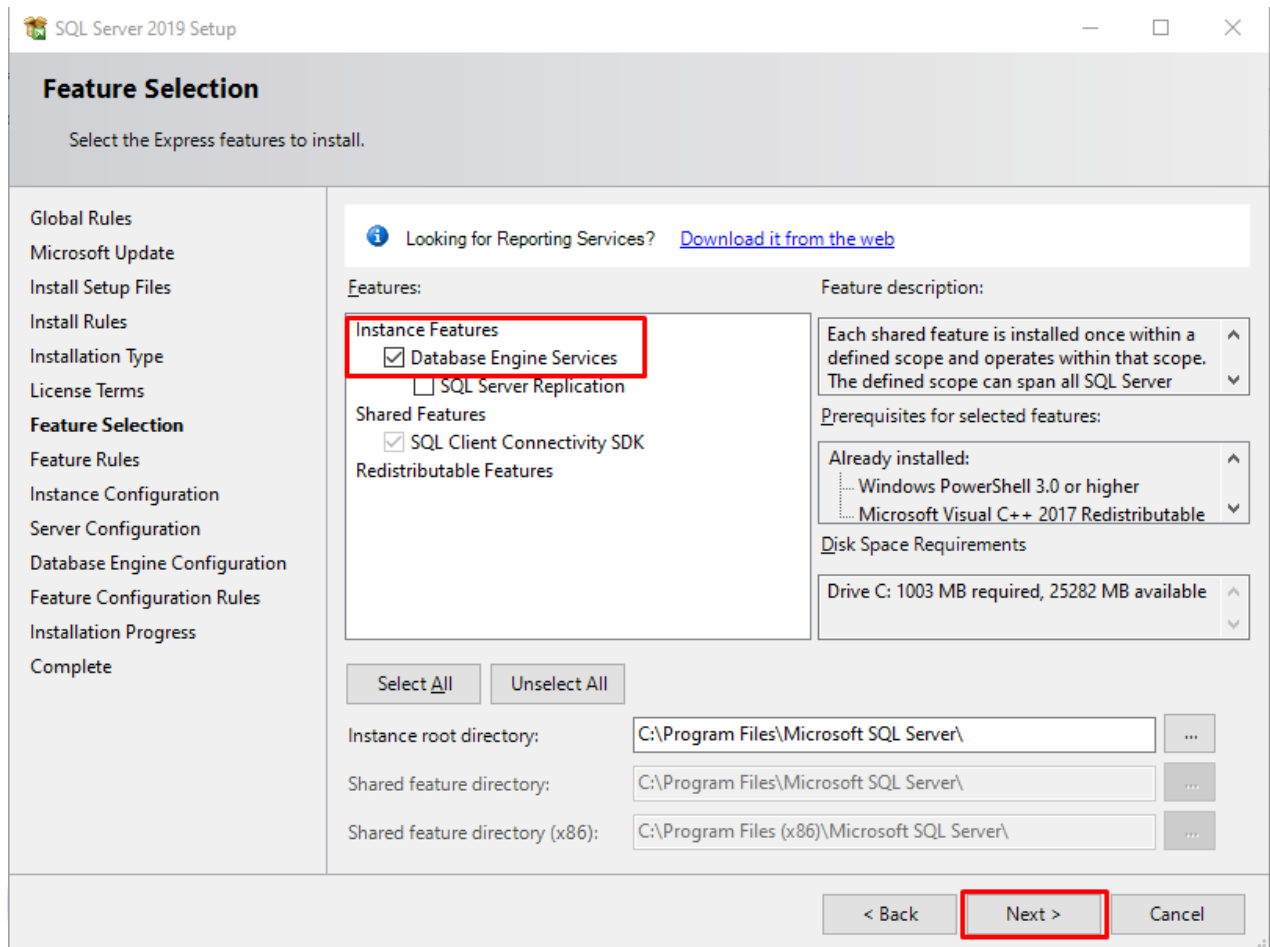
Instance Name	Instance ID	Features	Edition	Version
SQLEXPRESS	MSSQL15.SQLEXPRESS	SQLEngine	Express	15.0.2000.5
SQLEXPRESS01	MSSQL15.SQLEXPRESS01	SQLEngine	Express	15.0.2000.5

< Back **Next >** Cancel

Step 9: Now, read and accept the license agreements by check-in the radio button and then click on **Next**. Refer below.



Step 10: In the below wizard you can choose the features which you wish to install. Also, you can choose the instance root directory and then click on **Next**. Here, I will choose the **Database Engine Services**.



Step 11: Next you have to name the instance, and automatically the instance ID will be created. Here, I will name the instance “edureka”. Then, click on **Next**.

SQL Server 2019 Setup

Instance Configuration

Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.

Global Rules
 Microsoft Update
 Install Setup Files
 Install Rules
 Installation Type
 License Terms
 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\MSSQL15.EDUREKA

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
SQLEXPRESS	MSSQL15.SQLEXPRESS	SQLEngine	Express	15.0.2000.5
SQLEXPRESS01	MSSQL15.SQLEXPRESS01	SQLEngine	Express	15.0.2000.5

< Back **Next >** Cancel

Step 12: In the Server Configuration wizard, click on **Next**.

SQL Server 2019 Setup

Server Configuration

Specify the service accounts and collation configuration.

Global Rules
 Microsoft Update
 Install Setup Files
 Install Rules
 Installation Type
 License Terms
 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\MSSQLSEDA...		Automatic
SQL Server Browser	NT AUTHORITY\LOCALS...		Disabled

☐ Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service

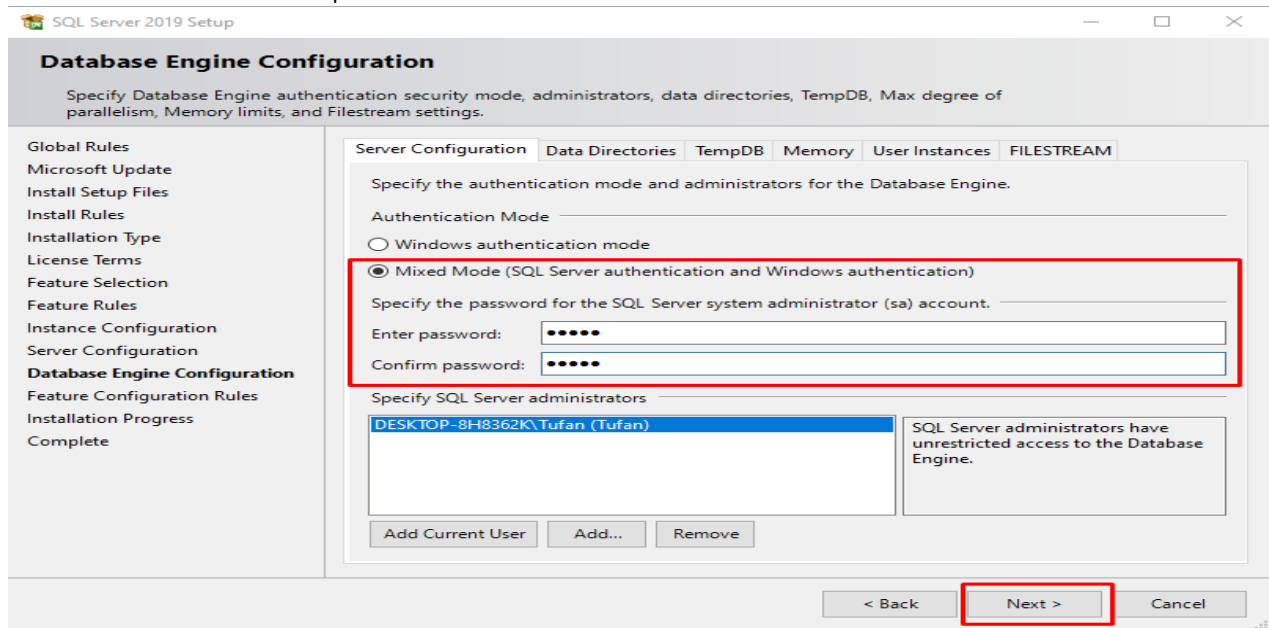
This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.

[Click here for details](#)

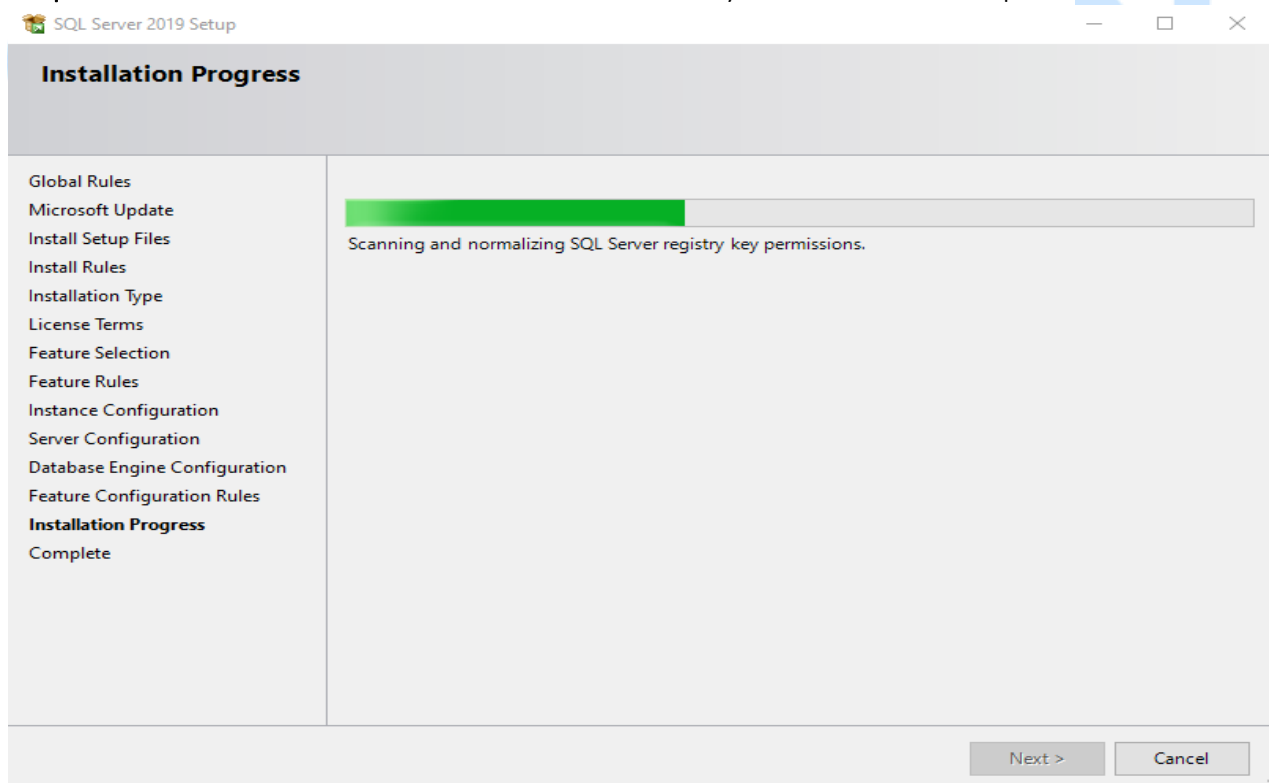
< Back **Next >** Cancel

Step 13: Now, you have to enable the authentication modes. Here, you will see

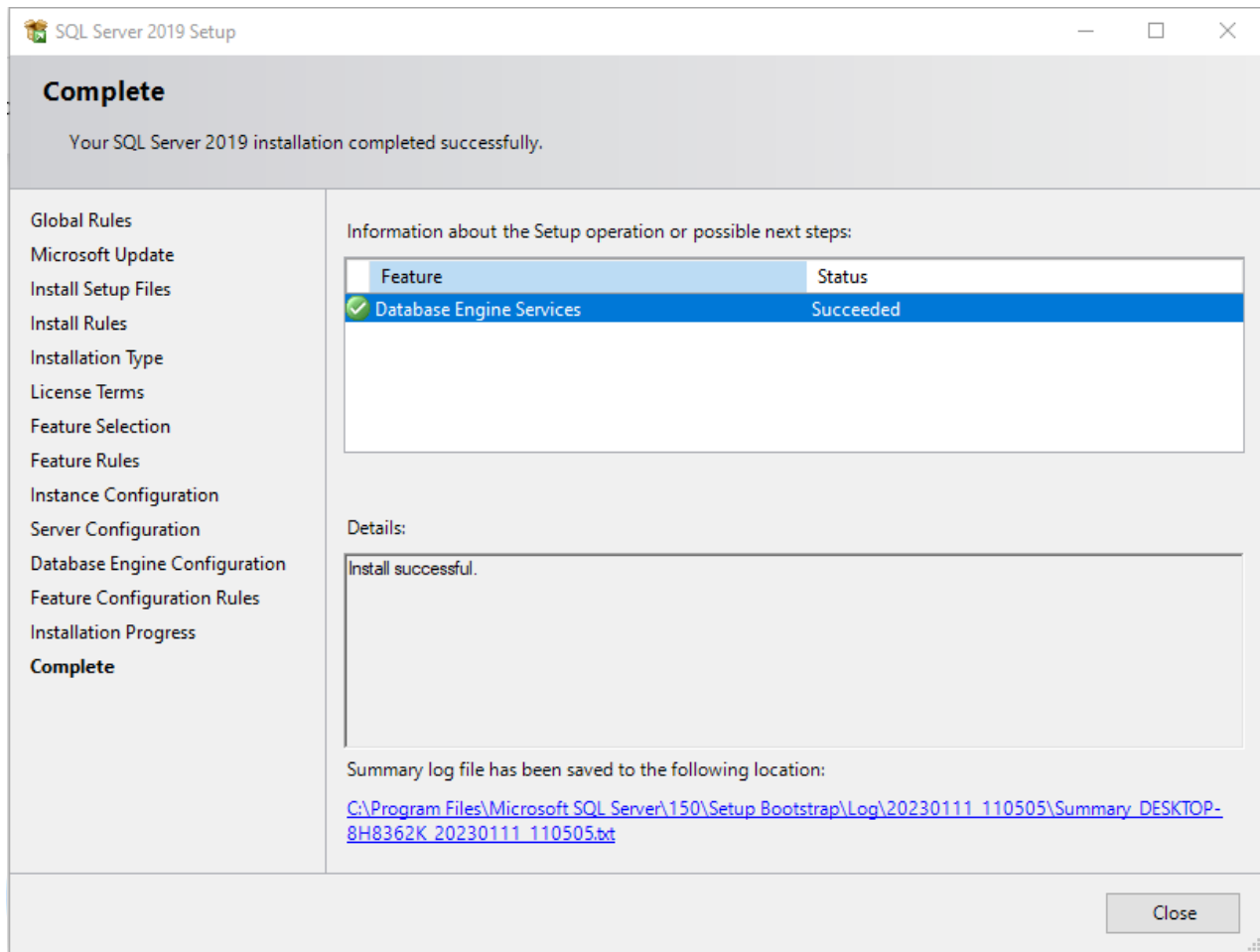
the **Windows authentication mode** and **Mixed Mode**. I will choose Mixed Mode. Then, mention the password and then I will add the current user as **Admin** by choosing the **Add Current User** option.



Step 14: Then the installation will start automatically. Wait for it to complete



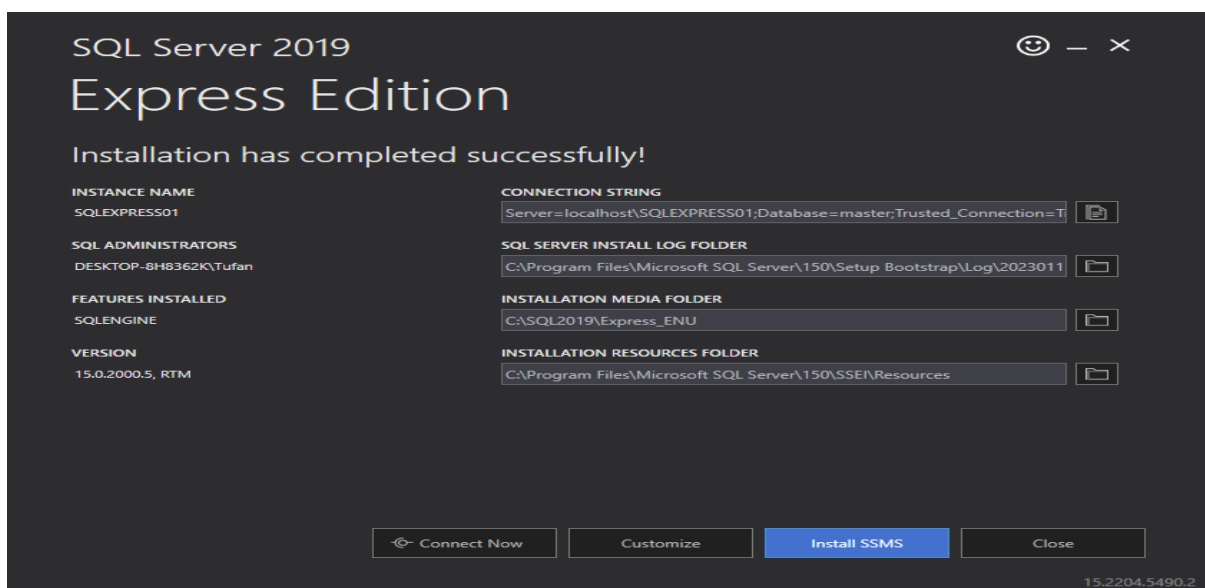
After the installation is complete, you will see the following screen:



Connect to SQL Server using SSMS

After the SQL Server is installed, your next step is to connect the SQL Server to the SQL Server Management Studio. To do that follow the below steps:

Step 1: Go back, to the following window, and click on the **install SSMS** option.







Step 2: Once you click on that option, you will be redirected to the following page, where you have to choose **Download SSMS**

Download SQL Server Management Studio (SSMS) 19 (Preview)

Article • 12/16/2022 • 6 minutes to read • 7 contributors

[Feedback](#)

Applies to:  SQL Server (all supported versions)  Azure SQL Database  Azure SQL Managed Instance  Azure Synapse Analytics

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.

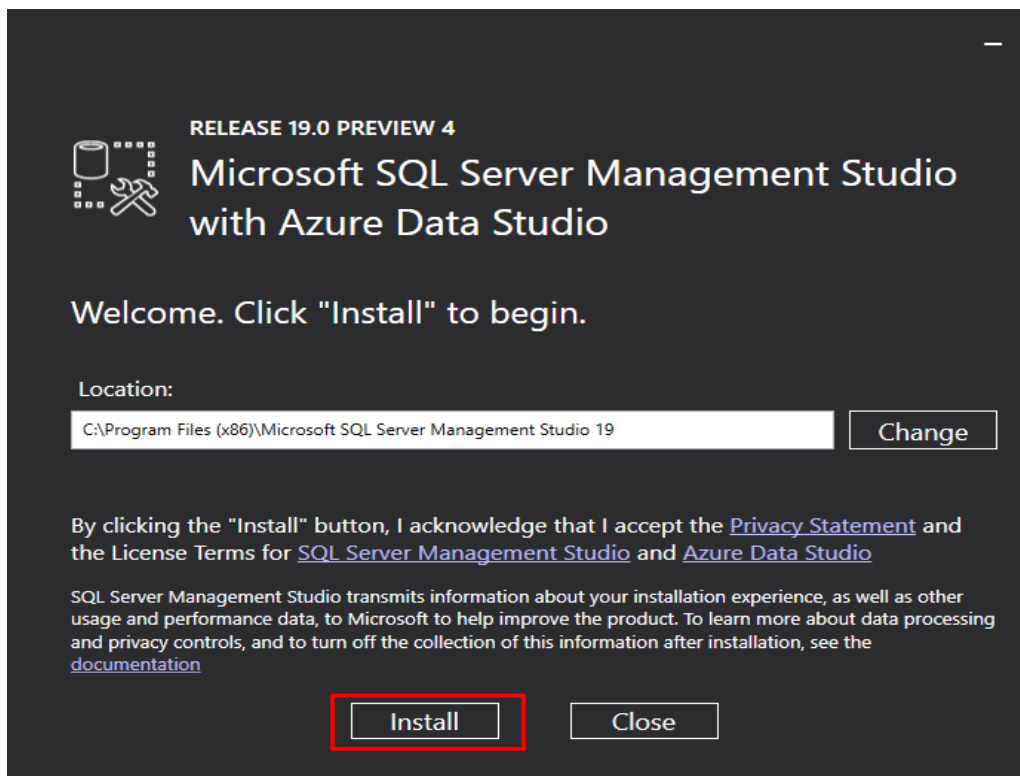
Download SSMS

To download the latest general availability (GA) version of SSMS, visit [Download SSMS](#).

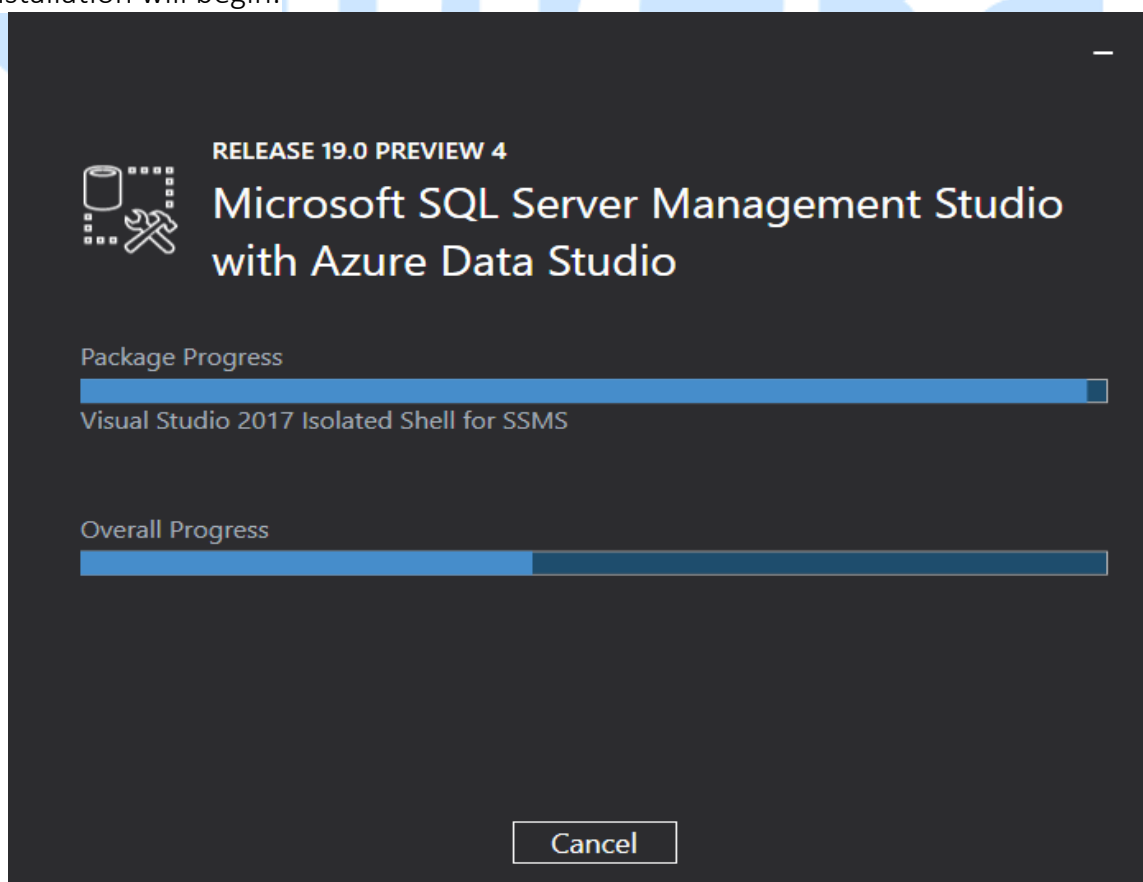
[Download SQL Server Management Studio \(SSMS\) 19 \(Preview\)](#)

SSMS 19 Preview 4 is the latest preview.

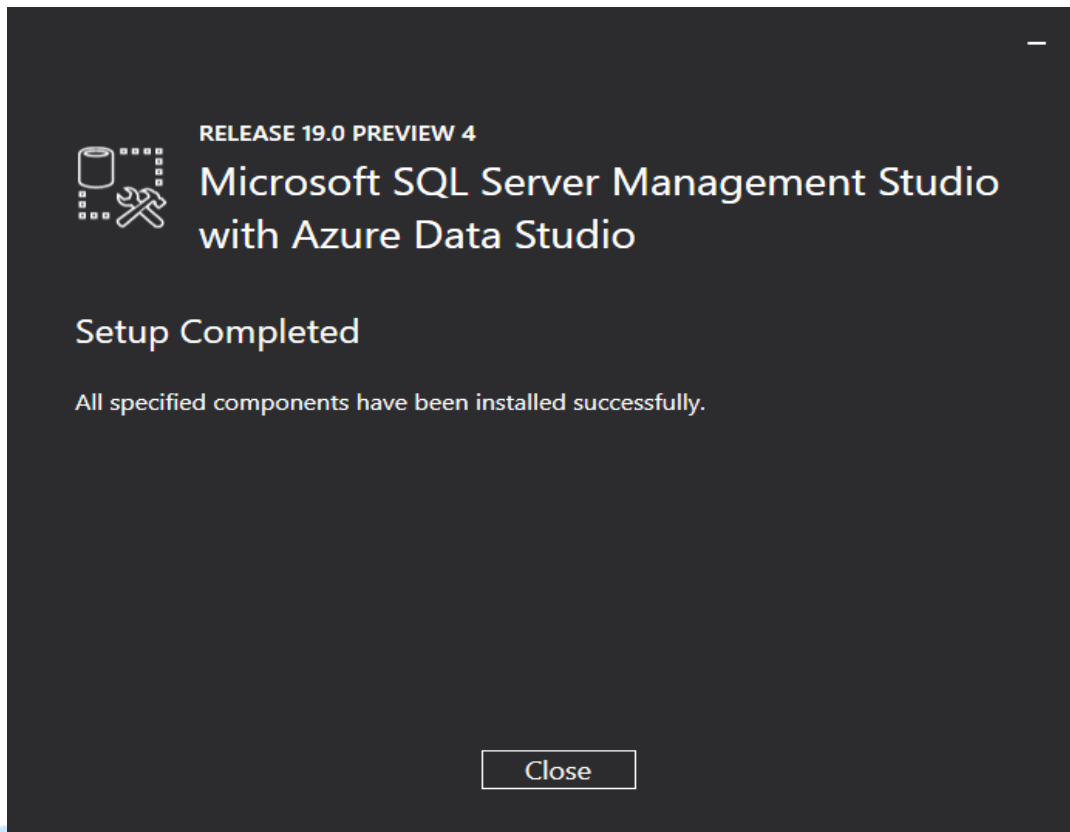
Step 3: After the setup has been downloaded, double-click on the application and you will see the following wizard opening up.



Step 4: Click on **Install option**, in the above window and you will see that that installation will begin.



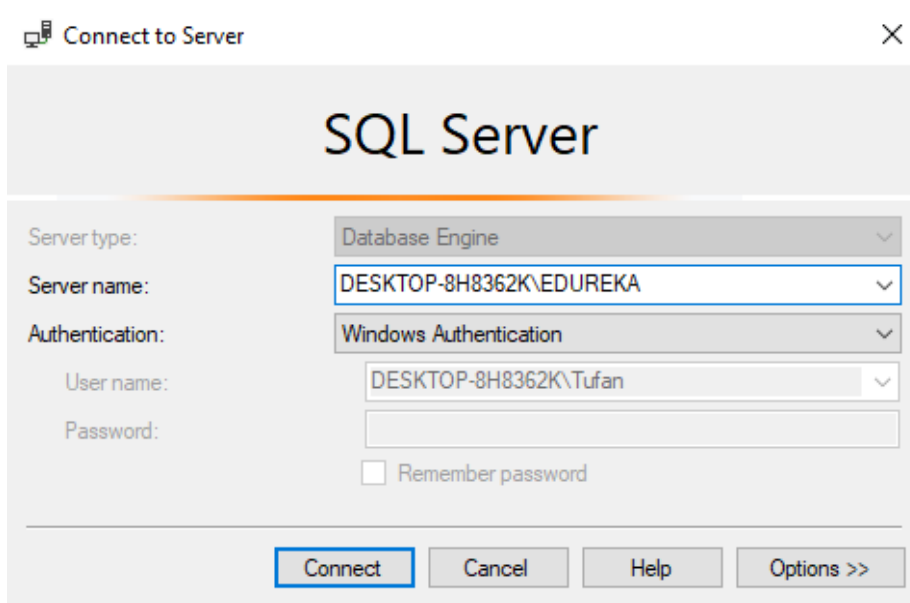
Step 5: After the installation is complete you will get a dialog box as shown below.



After you install the SSMS, the next step is to access the **Database Engine**.

Accessing Database Engine

When you open the **SQL server management studio** from the **start menu**, a window will open similar to the window shown in the picture below.



Server type: It is a dropdown menu that allows us to choose one of four MS SQL services options. Here we'll be working on the '**Database Engine**' that enables us to create and

work with databases. Some of the examples of other server types are Analysis, Reporting, and Integration Services.

Server name: It is the server's name where MS SQL Server is installed, and we will need to connect with that server. In most cases, we refer to the server name as "Machine name/Instance." Here we had given the Instance name to the SQL Server instance during installation.

Authentication: If we use "Windows Authentication" during SQL Server's installation, this option is set to "Windows Authentication." Authentication will be set to "SQL Server Installation" if we have chosen "Mixed Mode (Windows Authentication & Windows Authentication)."

User name\Password: These two fields will be needed when the Authentication is set to other than "Windows Authentication," such as "SQL Server Installation."

Here, mention the Server Name, Authentication Mode and click on **Connect**.

After you click on **Connect**, you will see the following screen.

