

# Install SQL Server 2019 Developer Edition on Windows Server 2019

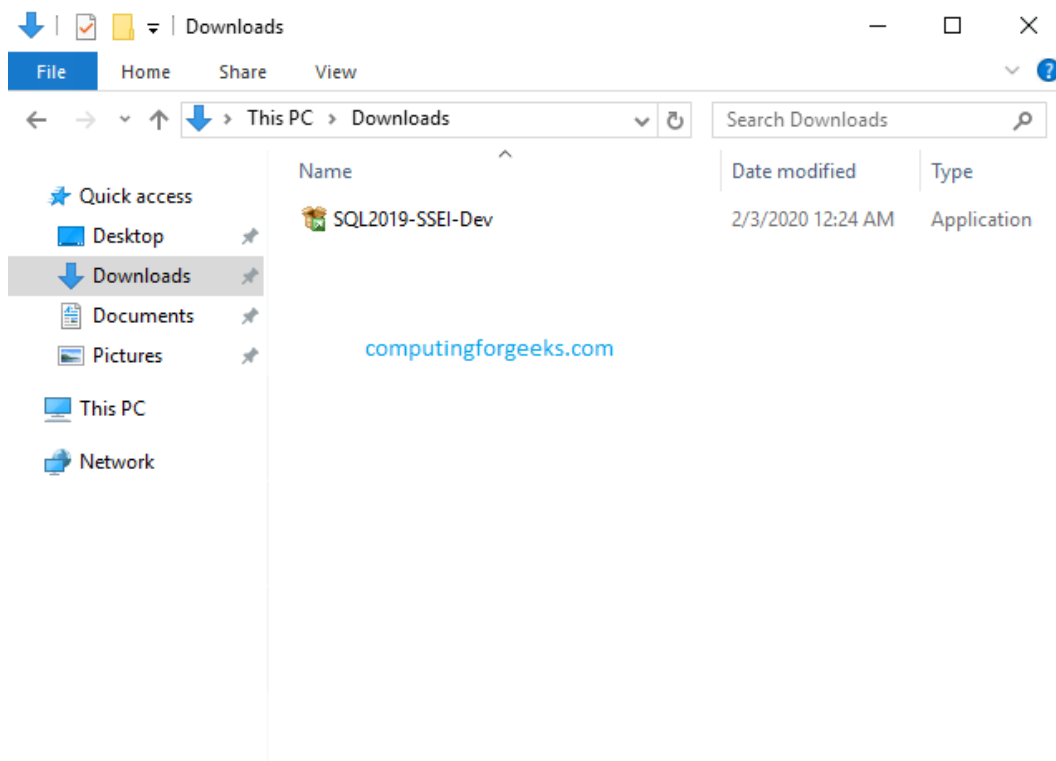
## Introduction

Microsoft produces SQL Server Developer edition is a full-featured free edition, licensed for use as a development and test database in a non-production environment. We are going to install SQL Server 2019 Developer Edition on Windows Server 2019. It is provided for macOS, Ubuntu, SLES, RHEL and Windows operating systems.

Before we begin, head over to the [Microsoft SQL Server Downloads page](#) and download SQL Server 2019 Developer Edition.

## Step 1: Run Installed Application

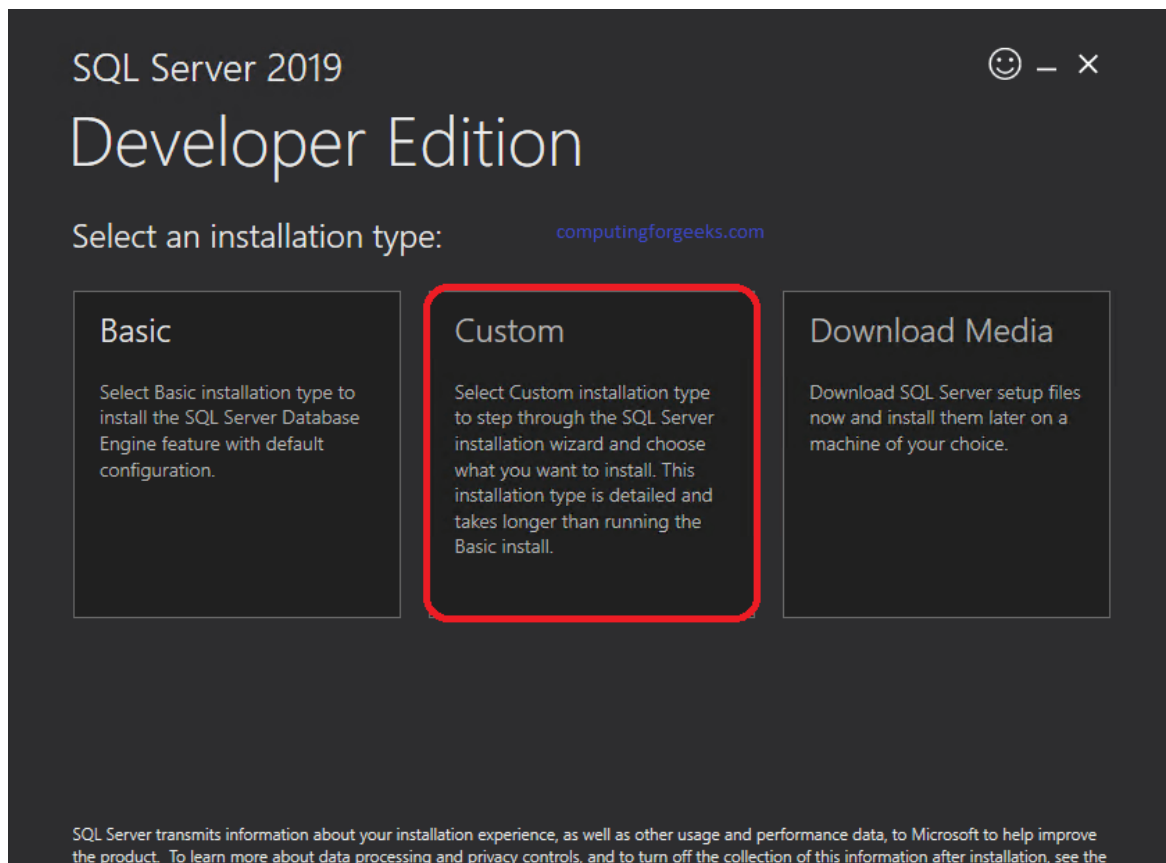
Navigate to the directory/folder where you downloaded the application then double-click it to start the installation process.



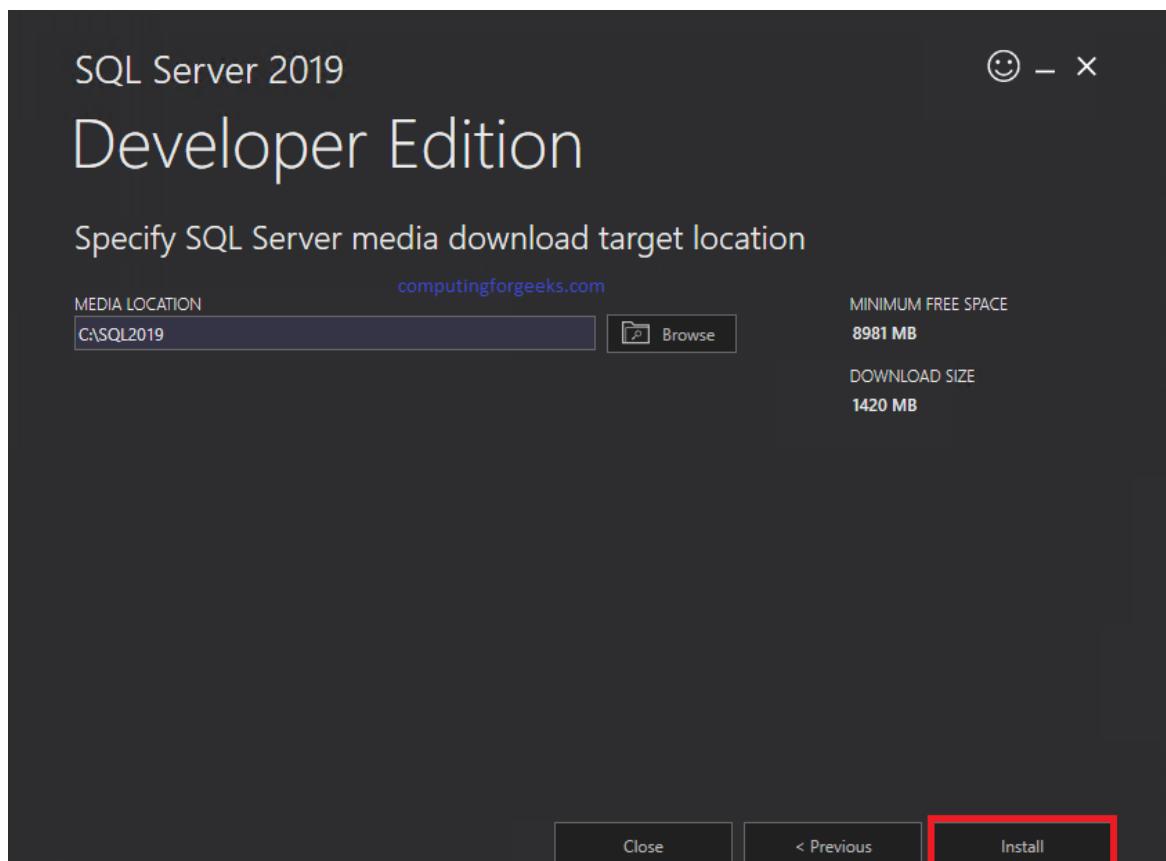
## Step 2: Select Custom Installation

After you have chosen the custom installation, click on “**Install**”. Allow the application to download and install packages.

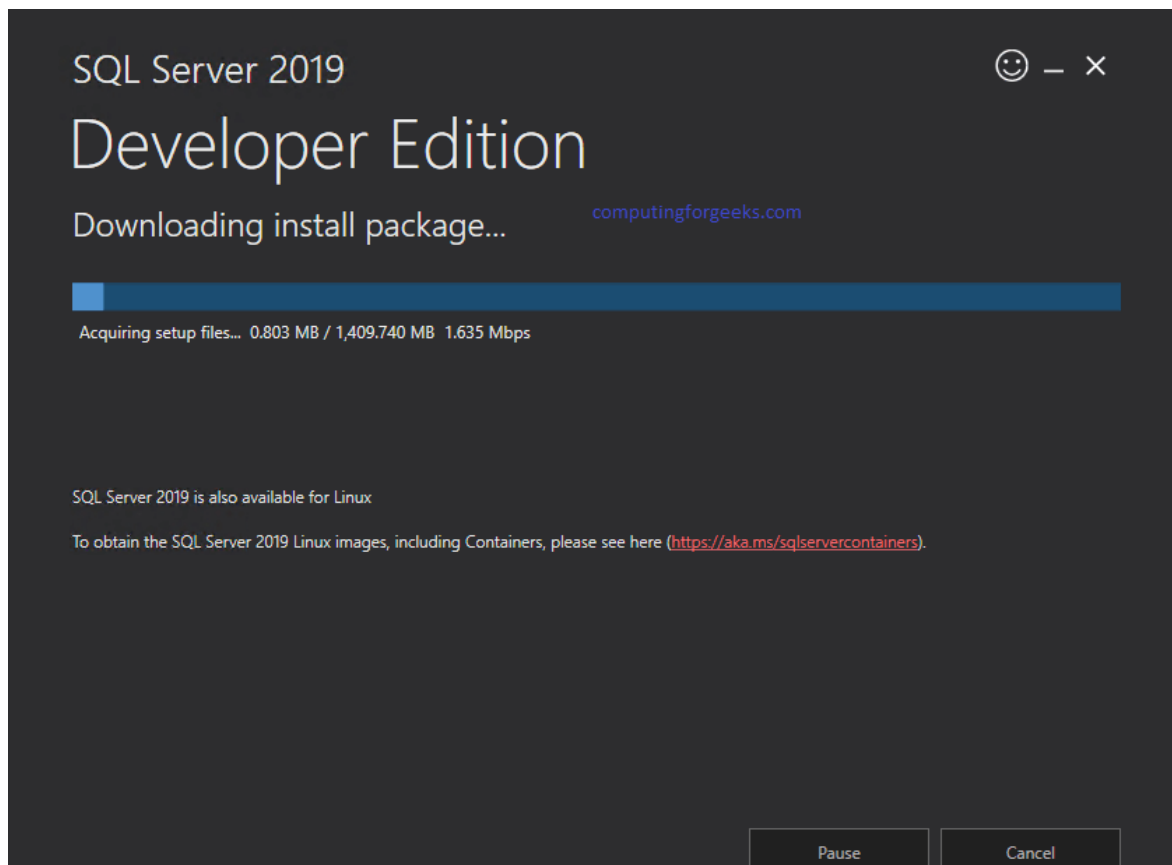
You have the “*Basic*“, “*Custom*” and “*Download Medium*” installation types. I recommend you choose “*Custom*” to tweak your installation of SQL Server 2019 Developer Edition on Windows Server 2019.



Specify a directory where SQL Server will store files downloaded for installation.

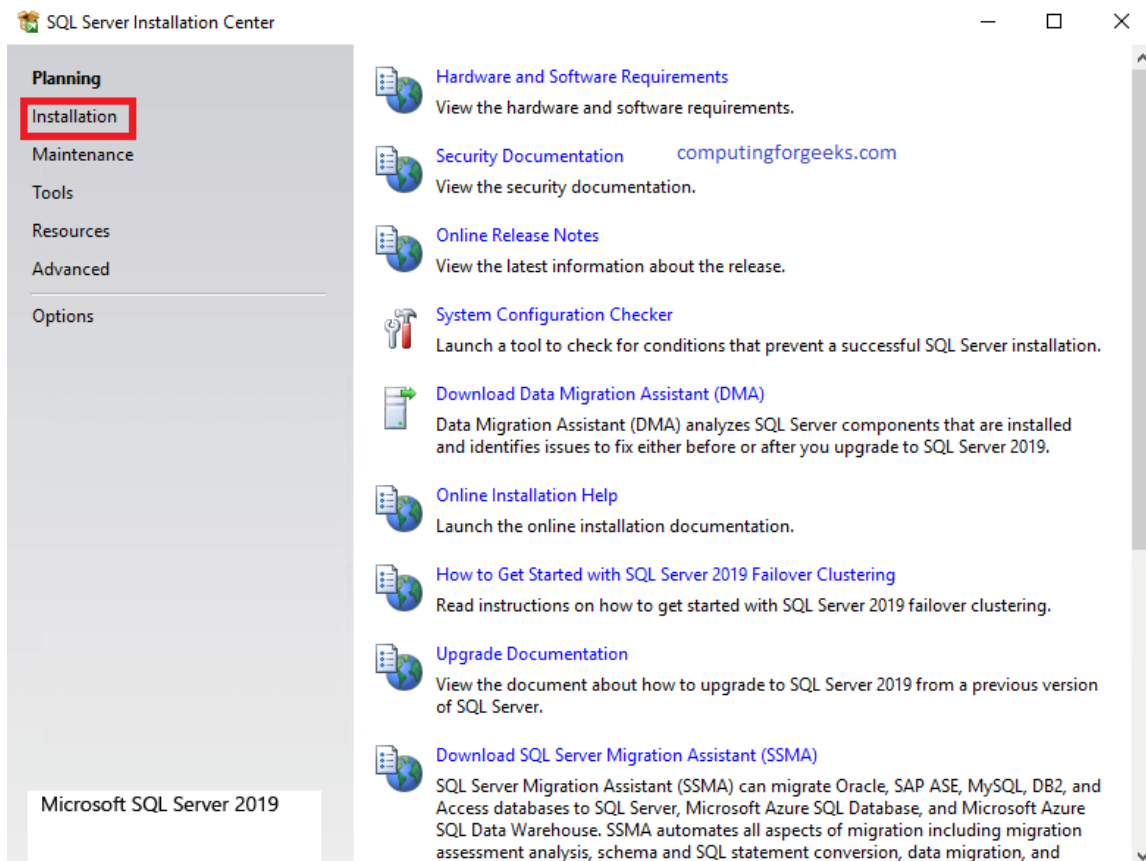


Be patient as the download begins, it may take some time.



## Step 3: Choose Installation

After all of the packages have downloaded, a new page as illustrated below will follow. Click on “**Installation**”



## Step 4: Choose New SQL Server standalone

After Step 3, choose the first option in the list and proceed to the next step. This is illustrated below.

Planning

**Installation**

Maintenance

Tools

Resources

Advanced

Options

Microsoft SQL Server 2019



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

Launch a wizard to install SQL Server 2019 in a non-clustered environment or to add features to an existing SQL Server 2019 instance.



**Install SQL Server Reporting Services**

Launch a download page that provides a link to install SQL Server Reporting Services. An internet connection is required to install SSRS.

[computingforgeeks.com](https://www.computingforgeeks.com)



**Install SQL Server Management Tools**

Launch 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 Tuning Advisor. An internet connection is required to install these tools.



**Install SQL Server Data Tools**

Launch a download page that provides a link to install SQL Server Data Tools (SSDT). SSDT provides Visual Studio integration including project system support for Microsoft Azure 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 failover cluster installation**

Launch a wizard to install a single-node SQL Server 2019 failover cluster. This action is only available in the clustered environment.



**Add node to a SQL Server failover cluster**

Launch a wizard to add a node to an existing SQL Server 2019 failover cluster. This action is only available in the clustered environment.



**Upgrade from a previous version of SQL Server**

Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2019.

[Click here to first view Upgrade Documentation](#)

Planning

**Installation**

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SQL Server 2019

Please wait while Microsoft SQL Server 2019 Setup processes the current operation.

This action is only available in the clustered environment.



**Add node to a SQL Server failover cluster**

Launch a wizard to add a node to an existing SQL Server 2019 failover cluster. This action is only available in the clustered environment.



**Upgrade from a previous version of SQL Server**

Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2019.

[Click here to first view Upgrade Documentation](#)

## Step 5: Specify Edition

This step depends on whether you need “**Developer**“, “**Evaluation**” or “**Express**“. Their differences are described in the window. Since we are installing the “**Developer**” edition, let us proceed with that option. Click “**Next**“

SQL Server 2019 Setup

### Product Key

Specify the edition of SQL Server 2019 to install.

**Product Key**  
License Terms  
Global Rules  
Microsoft Update  
Product Updates  
Install Setup Files  
Install Rules  
Feature Selection  
Feature Rules  
Feature Configuration Rules  
Ready to Install  
Installation Progress  
Complete

Validate this instance of SQL Server 2019 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.

☒ Specify a free edition: [computingforgeeks.com](http://computingforgeeks.com)

Developer

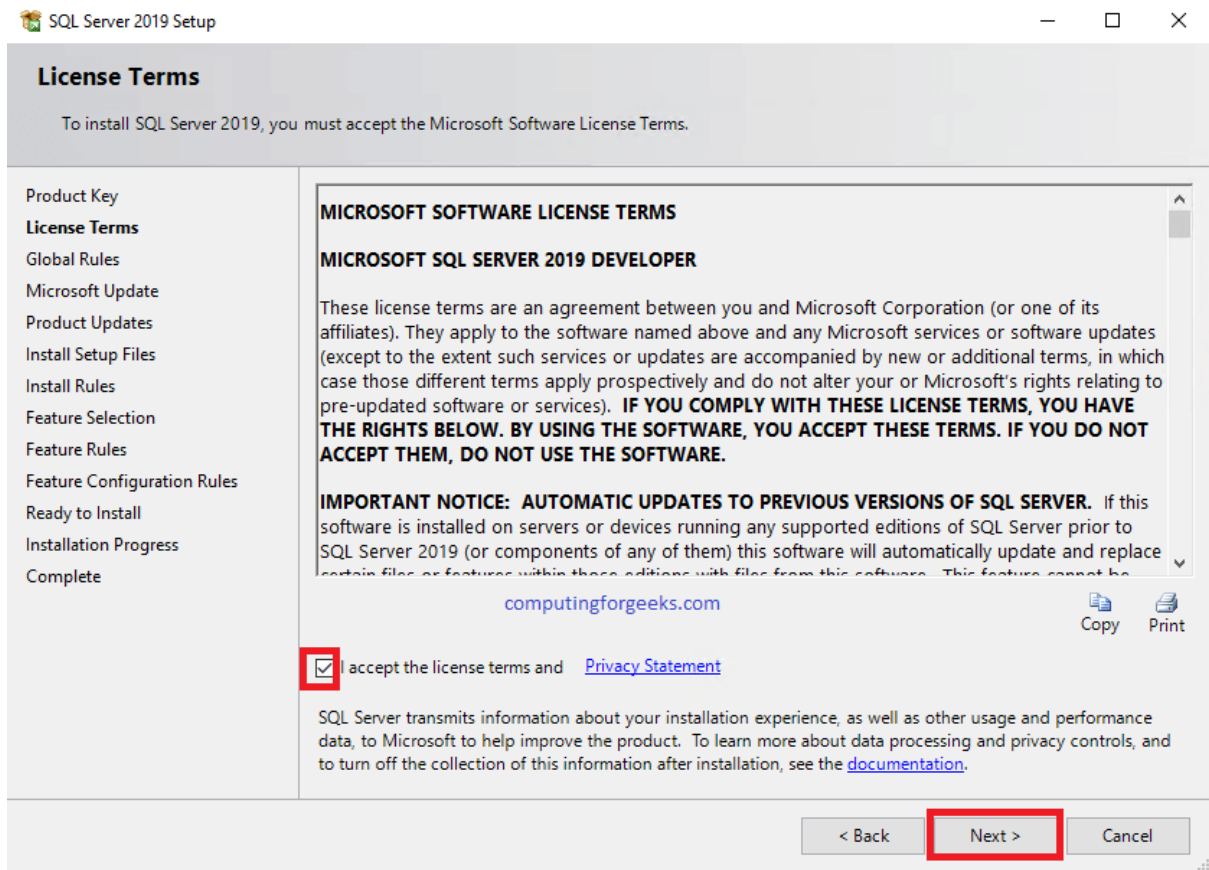
☐ Enter the product key:

- - - -

< Back   **Next >**   Cancel

## Step 6: Accept License Terms

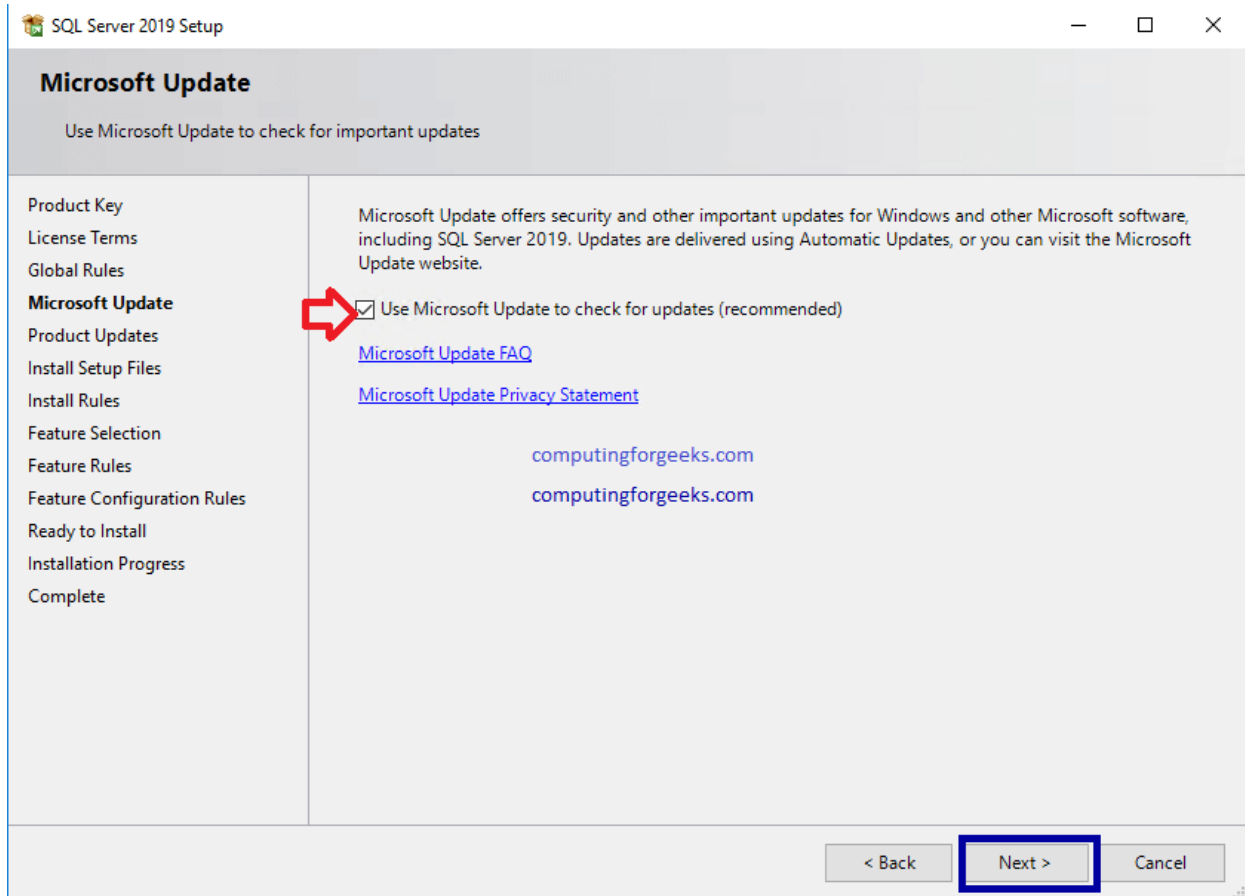
Select the “**I accept the license terms and Privacy Statement**” Radio and click on “**Next**“.



## Step 7: Microsoft Update

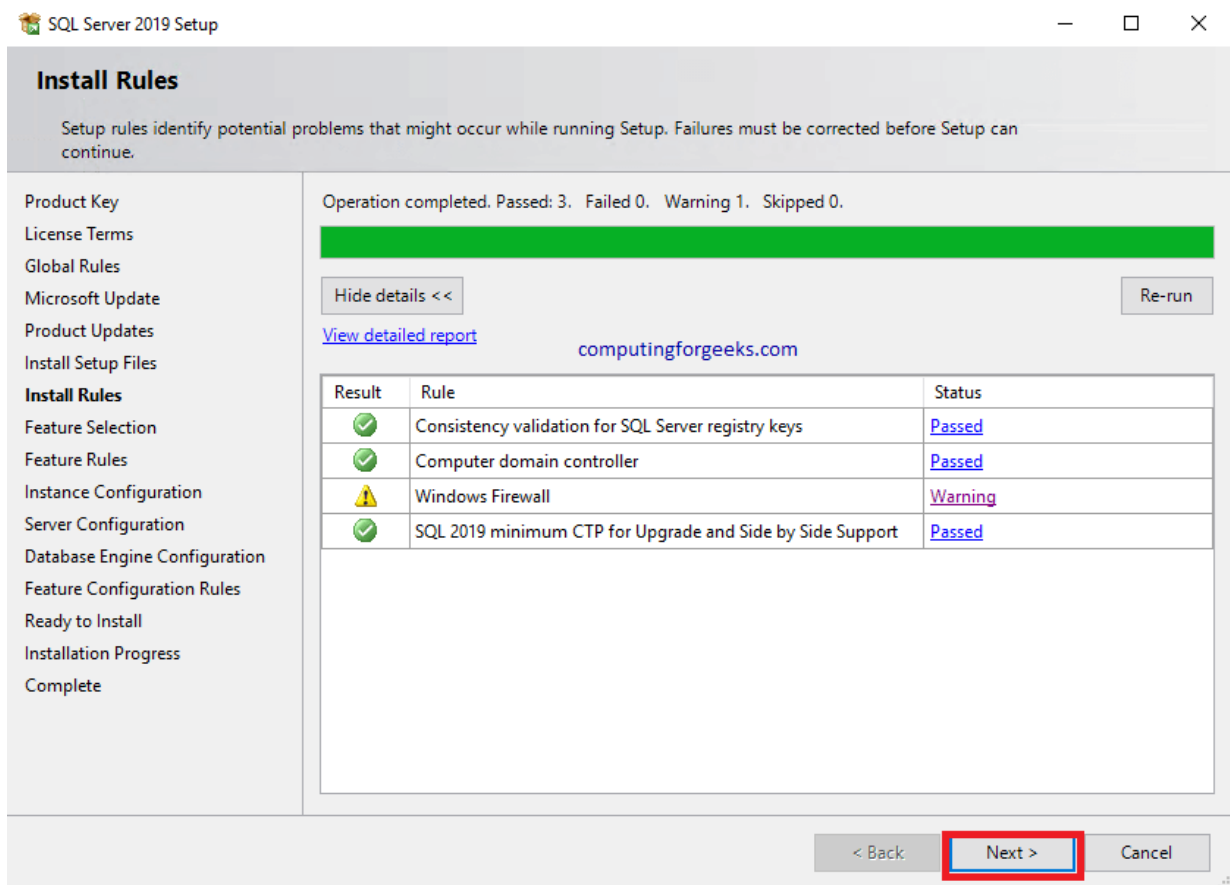
You can either select the “**Microsoft update**” radio or not in this step then click “**Next**”





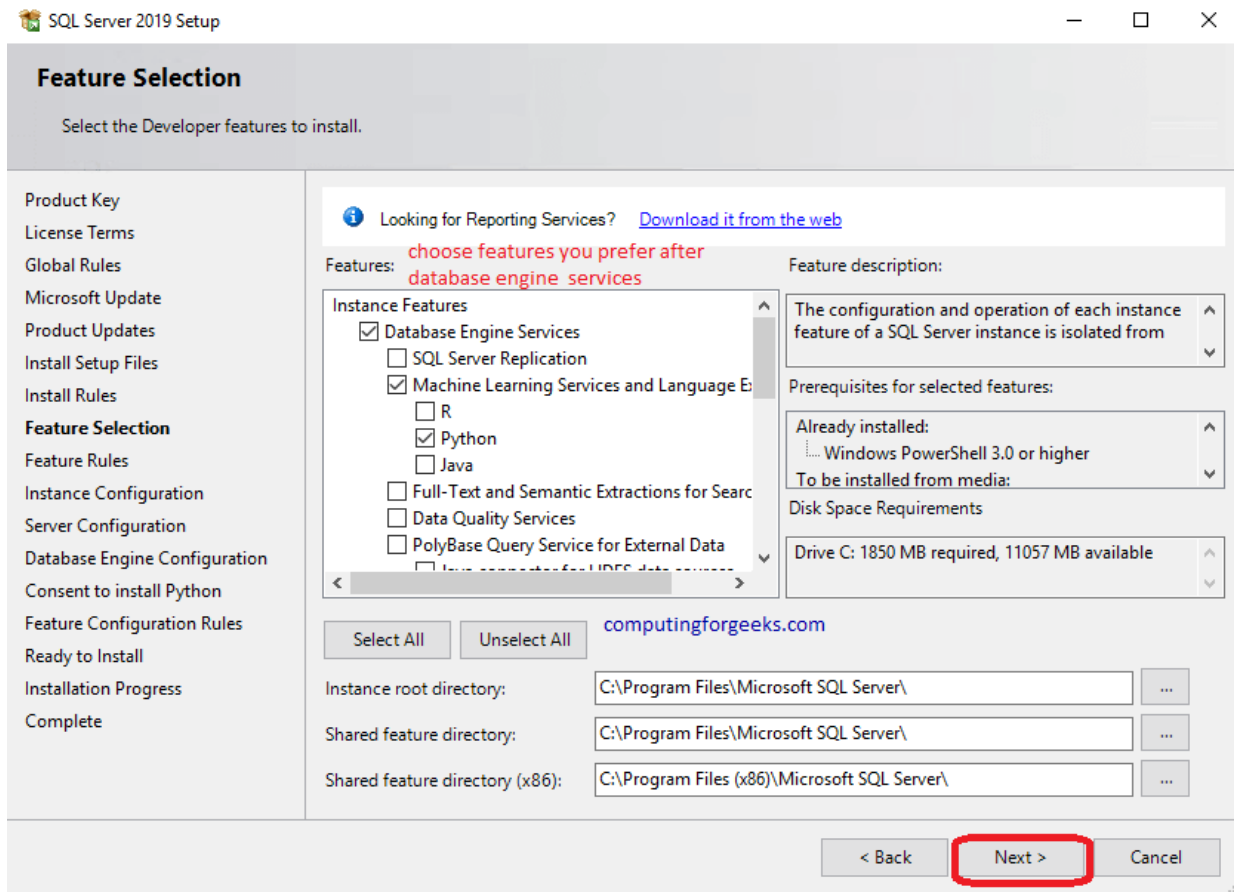
## Step 8: Install Rules

Windows will check the system to find out any potential problems that can occur while the setup is running. If your firewall is running, you might see a warning sign for “**Windows Firewall**” which reminds you to open appropriate ports after installation is complete. Click “**Next**” after you are satisfied with the results of that page.



## Step 9: Feature Selection

In this step, you are presented with many features that SQL Server comes with. In case you would wish a certain feature to be included in your SQL instance, then this is the part that you choose their radio buttons. Go ahead and choose what you prefer to have. Click “**Next**” after you are done.



## Step 10: Instance Configuration

Name your instance, in this step and 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.

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

Consent to install Python

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

☐ Default instance [computingforgeeks.com](https://computingforgeeks.com)

☒ Named instance:

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Instance ID:

---

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER2019

Analysis Services directory: C:\Program Files\Microsoft SQL Server\MSAS15.MSSQLSERVER2019

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
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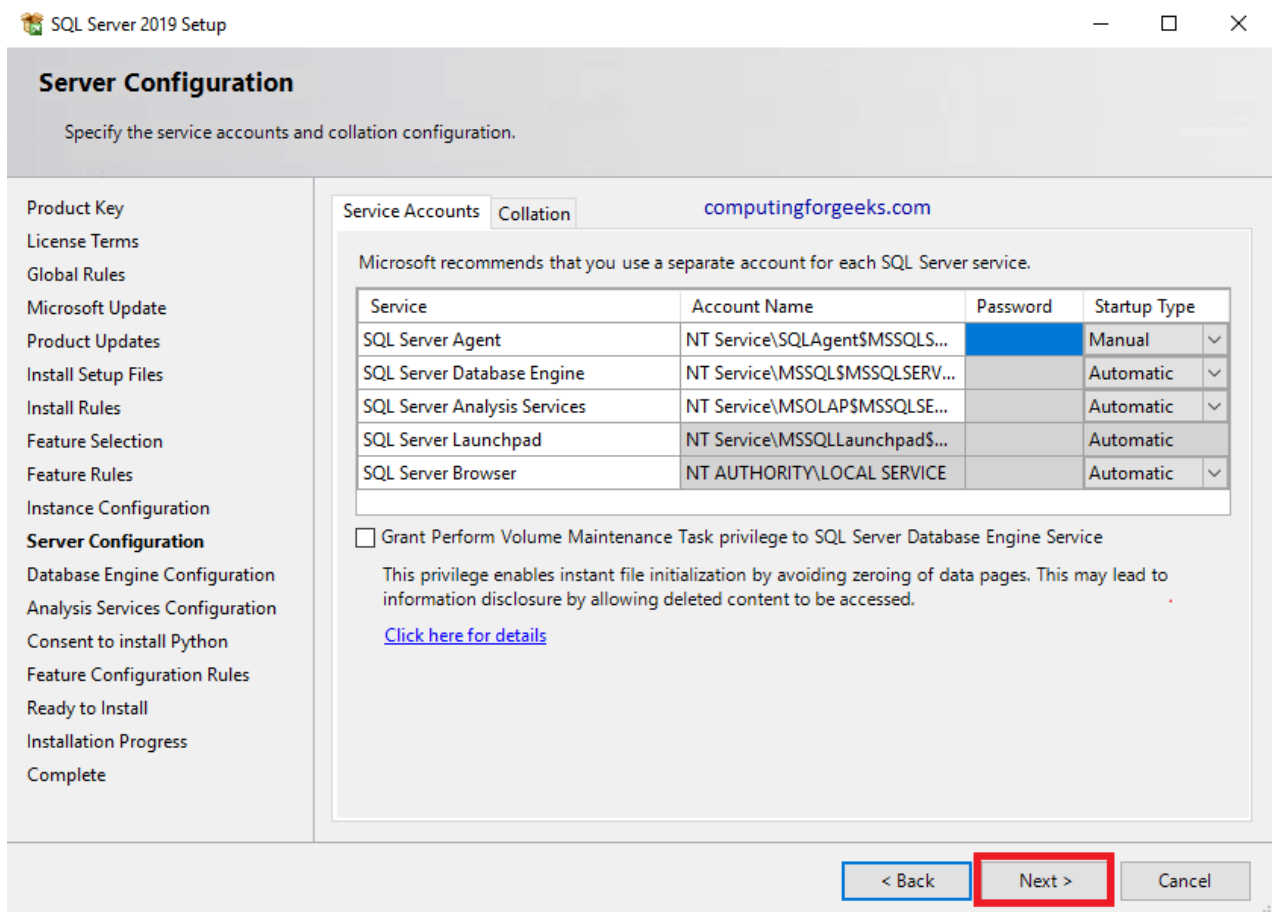
< Back

**Next >**

Cancel

## Step 11: Server Configuration

Specify the service accounts and collation configuration here. Click “**Next**” after that.



## Step 12: Configure Database Engine Parameters

This step gives you the opportunity to choose authentication mechanisms you will use, setting a password for the administrator account and choosing other admin accounts.

I prefer **mixed-mode authentication** where a user can either be from a domain or added manually in the SQL instance. Choose the one that suits you best, enter the password and any other setting that you would wish to configure.

If you are keen, you will notice that there are other Tabs on this page. They are “**Data Directories**” where you can specify where you would wish your logs to reside, where your root directory will be, where you would wish to place your backup directory and database directory.

If you have different partitions in your server, you can place these directories in a smart way. Other tabs include “**Memory**“, “**TempDB**“, “**MaxDOP**“, and “**FILESTREAM**“. Look into them and set your customized settings therein. Click on “**Next**” when you are done. Do not forget to add an admin user.

SQL Server 2019 Setup

### Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.

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  
Consent to install Python  
Feature Configuration Rules  
Ready to Install  
Installation Progress  
Complete

Server Configuration | Data Directories | TempDB | MaxDOP | Memory | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode [computingforgeeks.com](http://computingforgeeks.com)

☐ 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

WIN-UEK4V3D4HSQ\Administrator (Administrator)

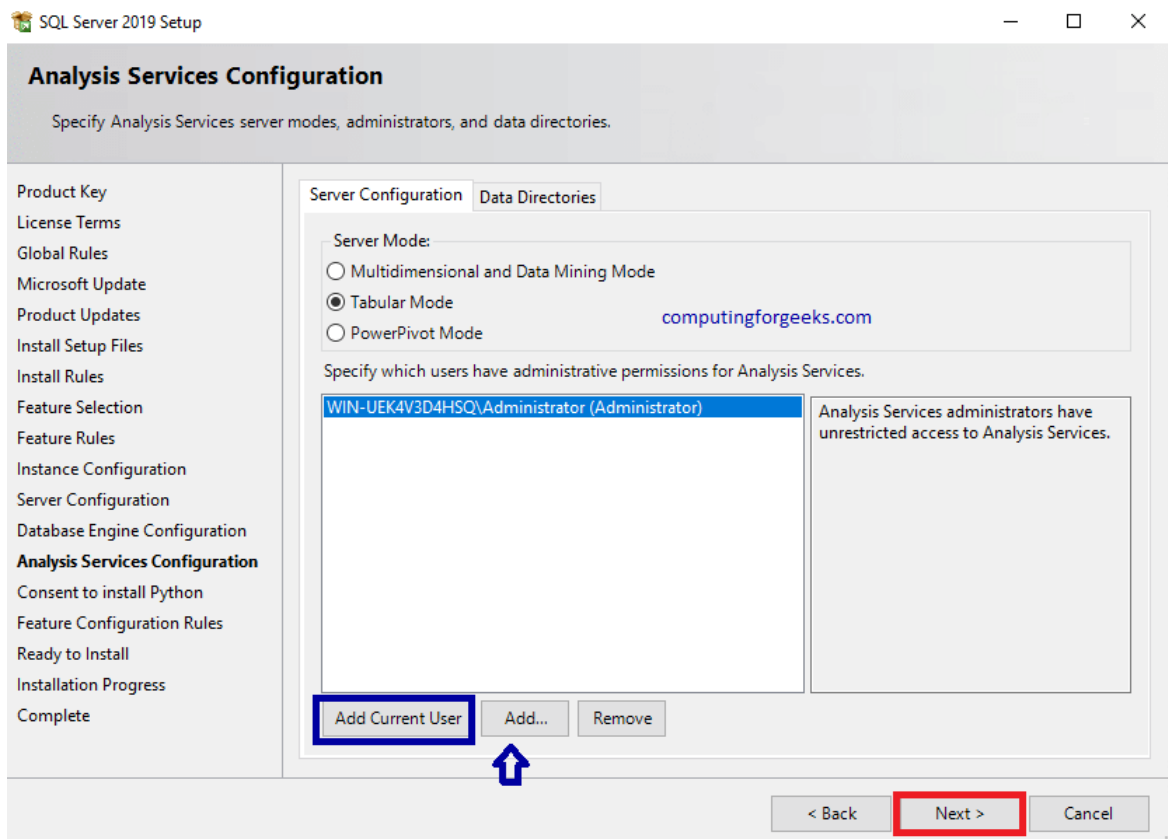
SQL Server administrators have unrestricted access to the Database Engine.

Add Current User | Add... | Remove

< Back | **Next >** | Cancel

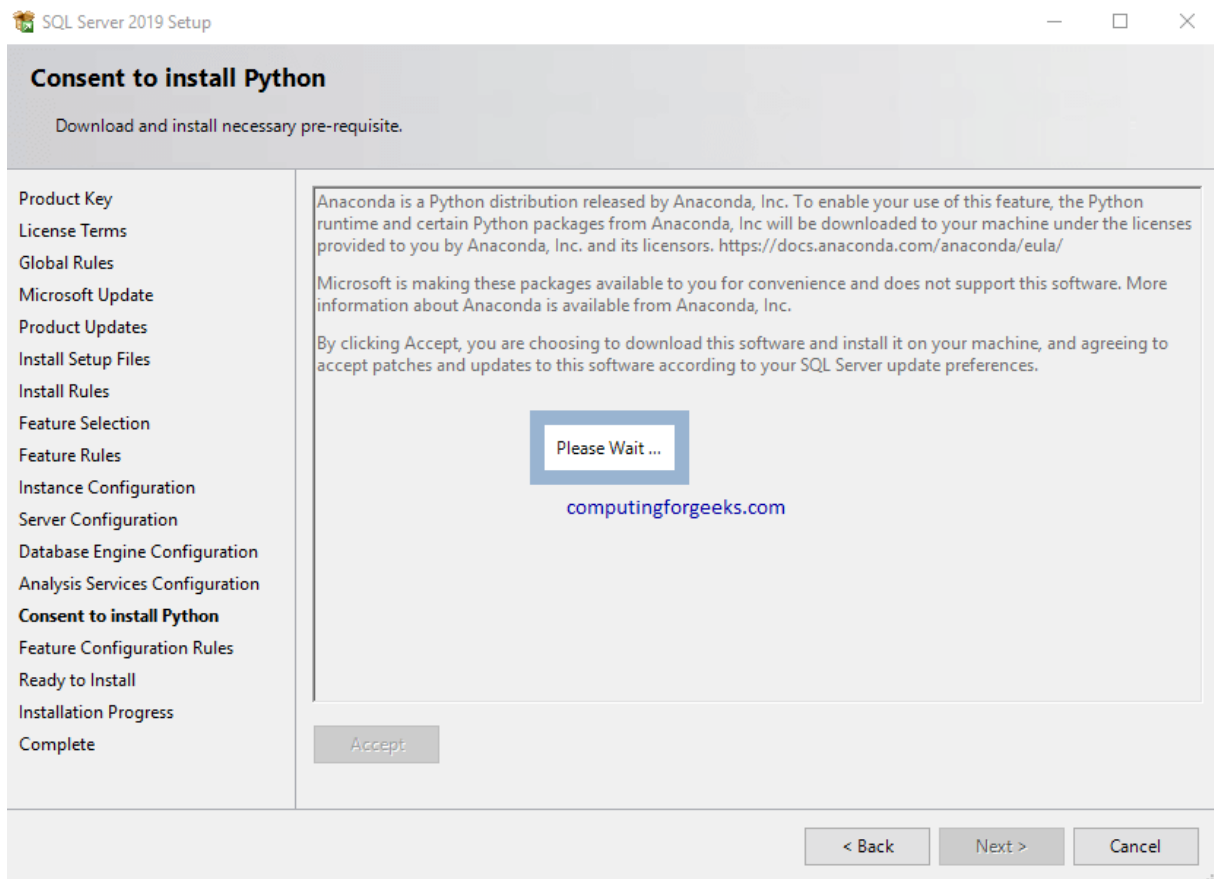
## Step 13: Analysis Services Configuration

Since I enabled analysis functionality, this is the step where I configure them. Choose an administrator and set the server mode that you prefer. Click on “**Next**“.



## Step 14: Accept Installation of Services

In case you had chosen specific packages to suit your needs in Step 9, you will be presented with installation guide and settings tailored for that specific service. For example, I had chosen Python and now I am being asked to consent its installation. After you are done with all of the prompts, click “**Next**” to proceed.



## Step 15: Ready to Install

This step gives a summary of what we have been doing so far. The packages we have chosen to install, the settings we have configured and many more. Look at the list carefully. After you are satisfied with the summary, then gladly click on “**Install**”

Wait as the server gets installed.

## Step 16: Finish up

After everything has installed. Click on “**Close**”. Your SQL instance is installed and ready to be used.



After this you need to install SSMS, Sql Server Management Studio. Use the following link

<https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15>