How to Install SQL Server Developer 2019

Introduction

The following explains how to install SQL Server Developer 2019. This is an older version of the software so it's not easily found on the Microsoft website (they usually promote the current release/version). So, you can use the links under the "Resources" section to locate and download the software.

Resources

Direct link to software download:

https://go.microsoft.com/fwlink/?LinkID=866662

General information with link to software download:

https://www.mssqltips.com/sqlservertip/7201/sql-server-developer-edition-download-install-get-started/

Additional installation instructions:

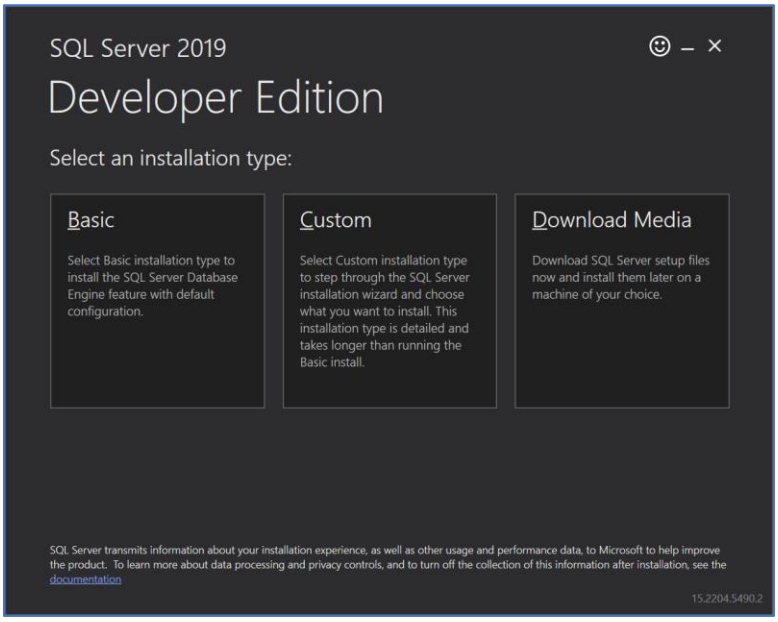
https://www.visual-expert.com/EN/visual-expert-documentation/install-and-configure-visual-expert/sql-server-2019-installation-guide-visual-expert.html

Detailed Steps

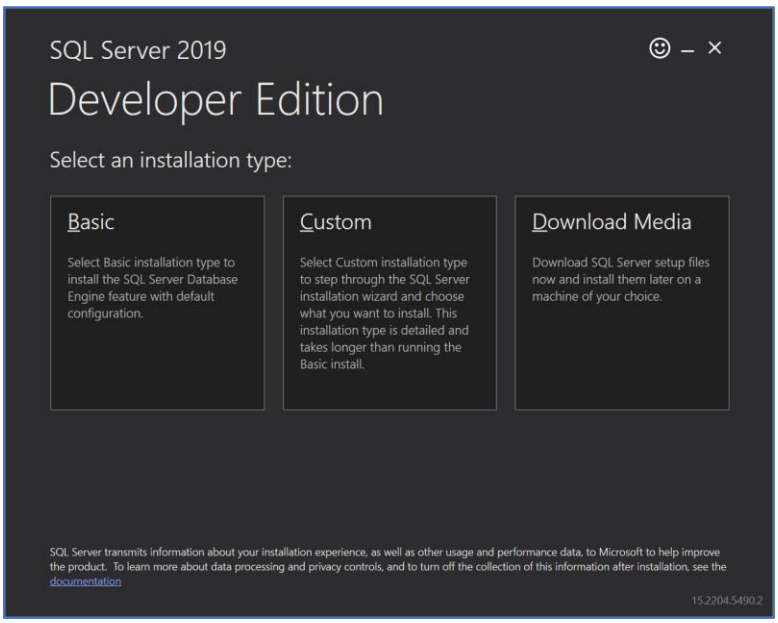
Part 1 – Run the Download Wizard

The actual installation file is not what is initially downloaded. Instead, a download wizard must be run to download the actual installations files. This part explains the steps involved to do that.

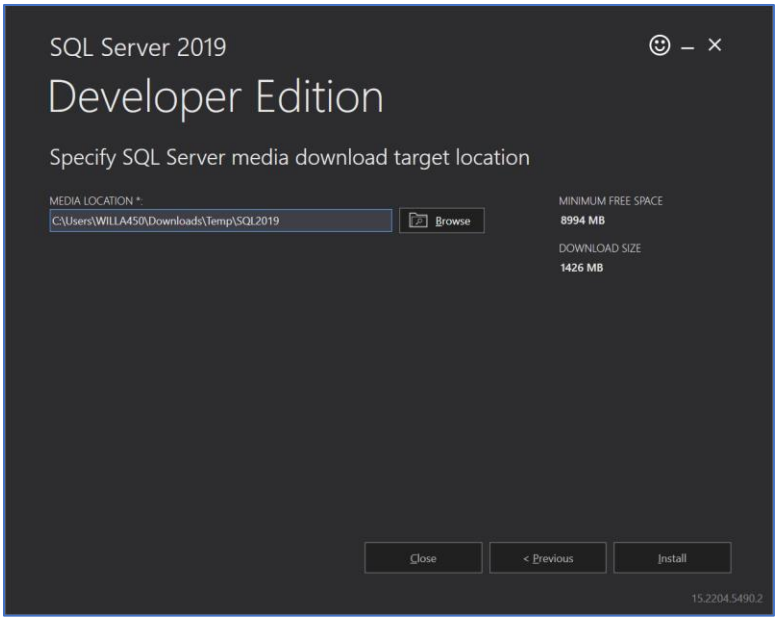
1. Launch the application.



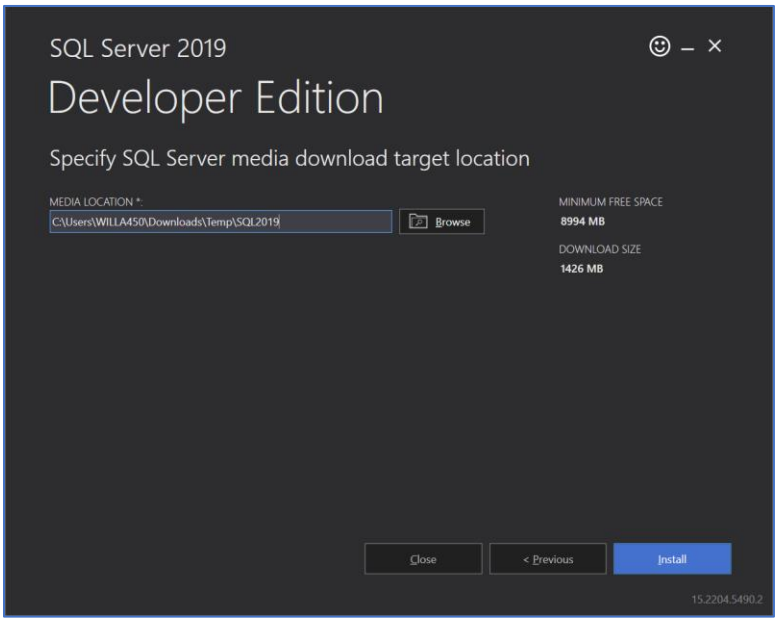
2. Select the "**Custom**" option.



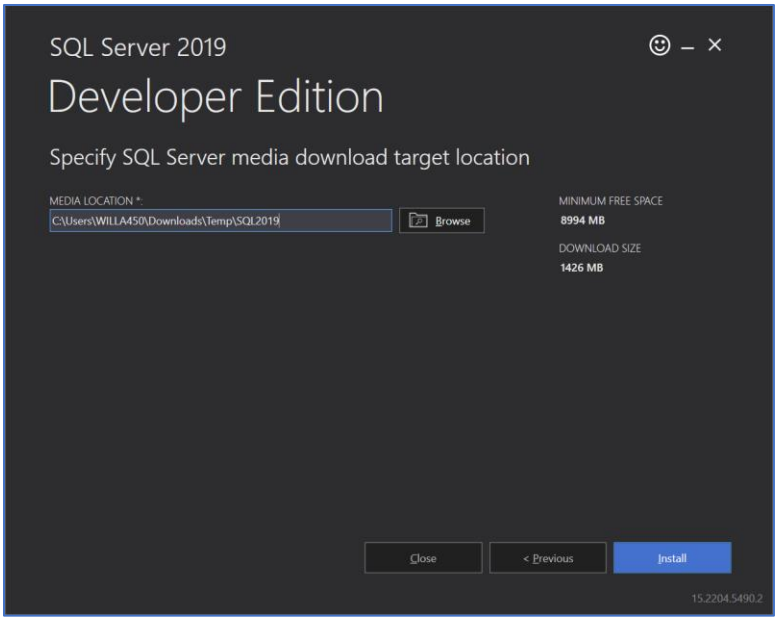
3. Select a temporary location on the local computer (or where you prefer) where the installation process can download the necessary files it needs during the installation.



4. Click the "**Install**" command button to begin the installation.



5. The necessary files will be downloaded.

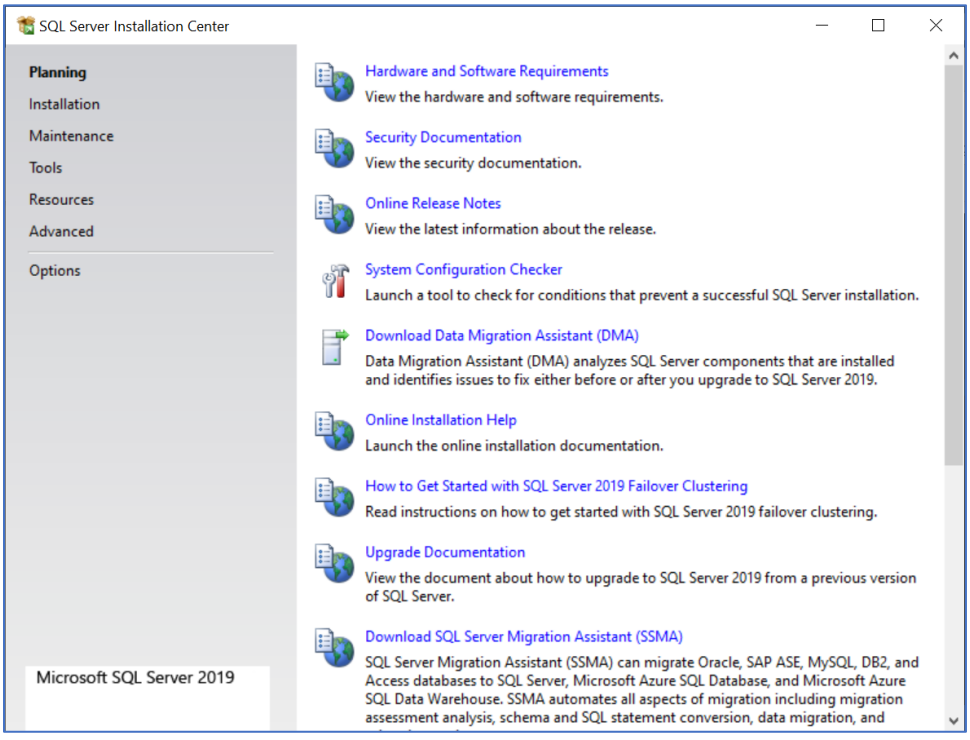


Part 1 – Install Application

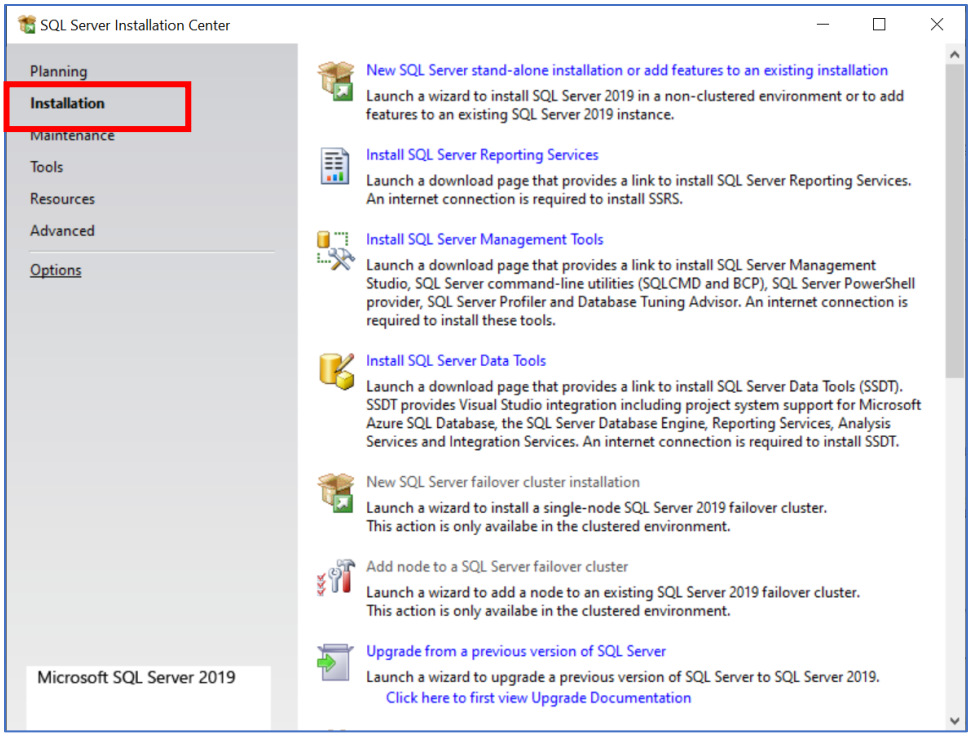
Part 2 – Install Application

In this part, you install the application.

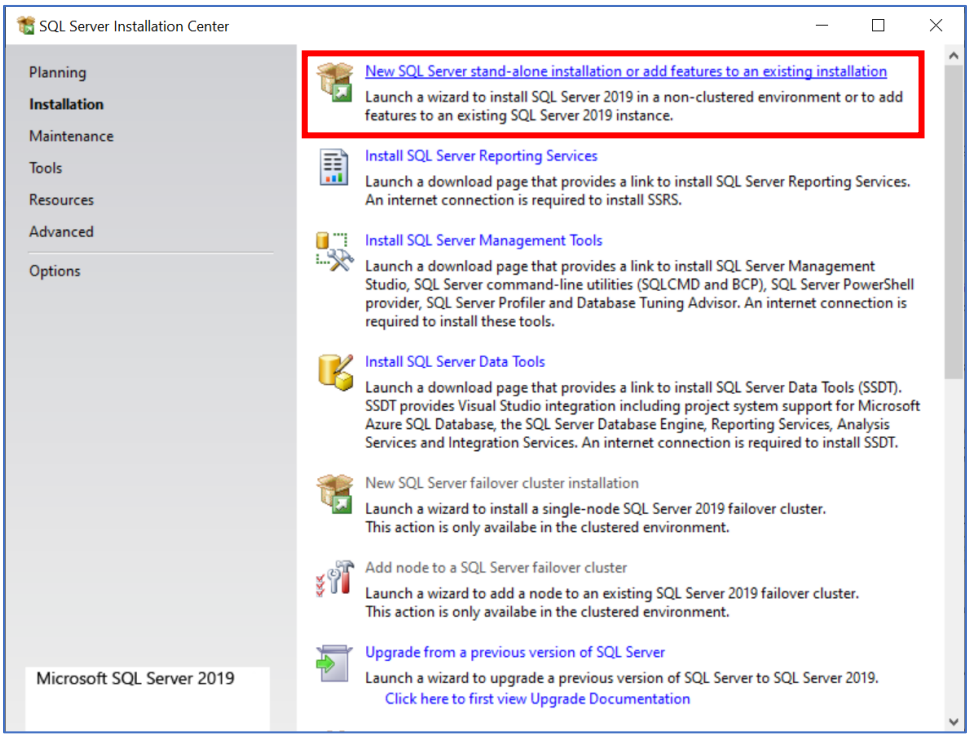
1. Once the download is complete, the SQL Server Installation Center will launch.



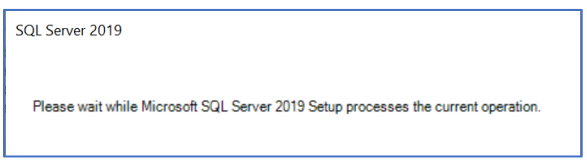
2. Select the "**Installation**" page on the left.



3. Select the “New SQL Server stand-alone installation or add features to an existing installation” link.

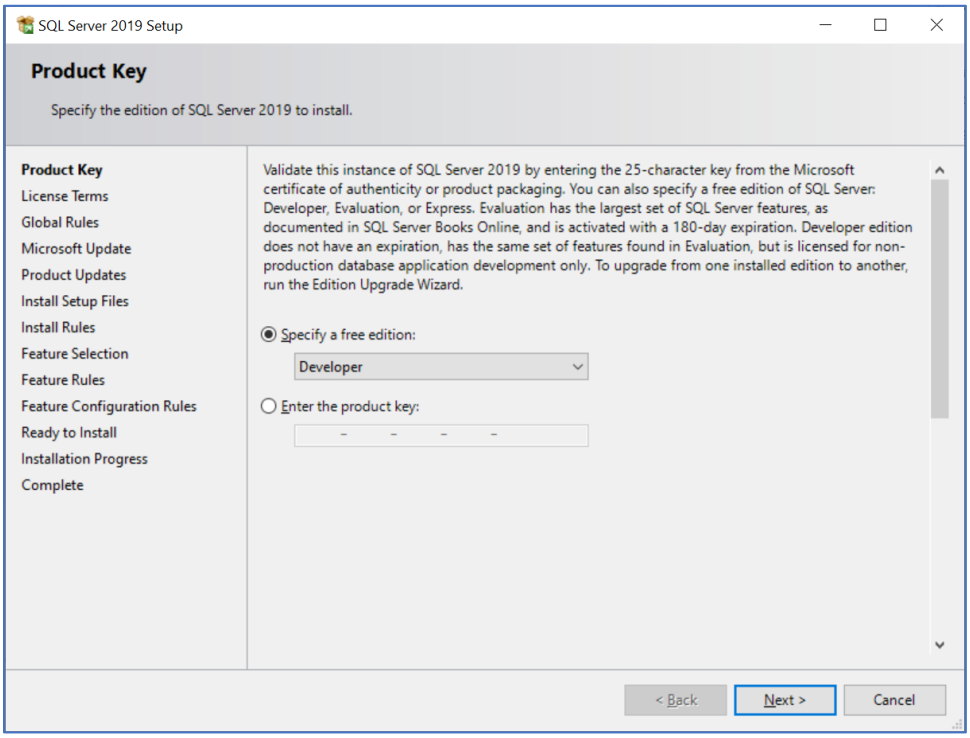


4. You may receive a “please wait” message.

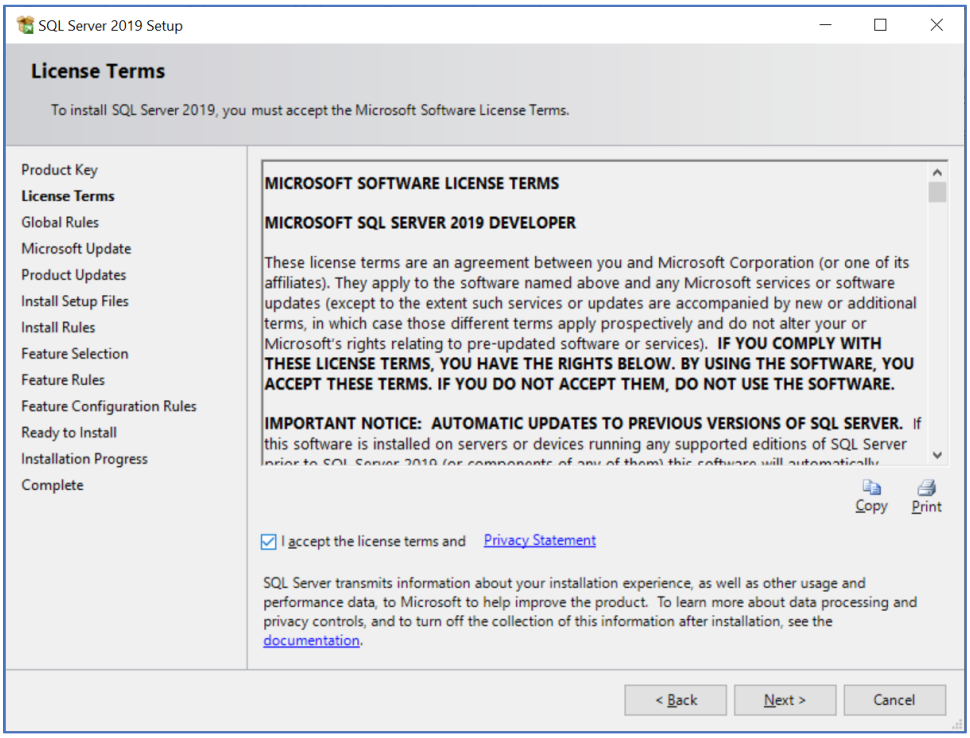


5. The setup screens will appear in the following steps where you'll make a number of selections along the way or just click through a number of screens.

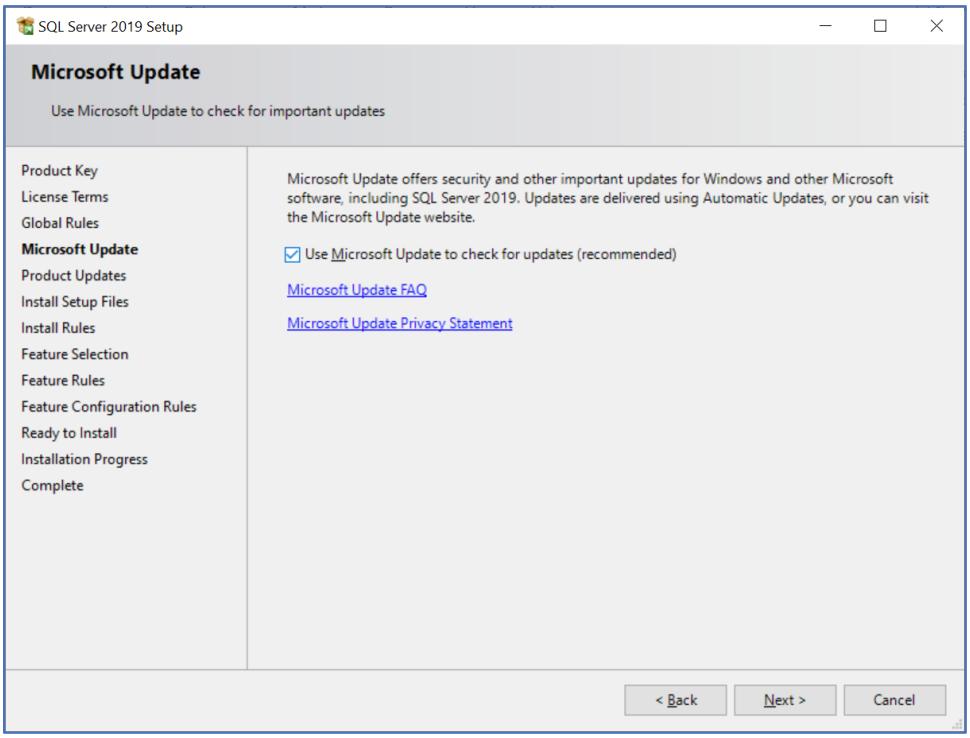
6. Select the "**Specific a free edition**" option button and select "**Developer**" in the dropdown list. Then, click the "**Next**" command button to continue.



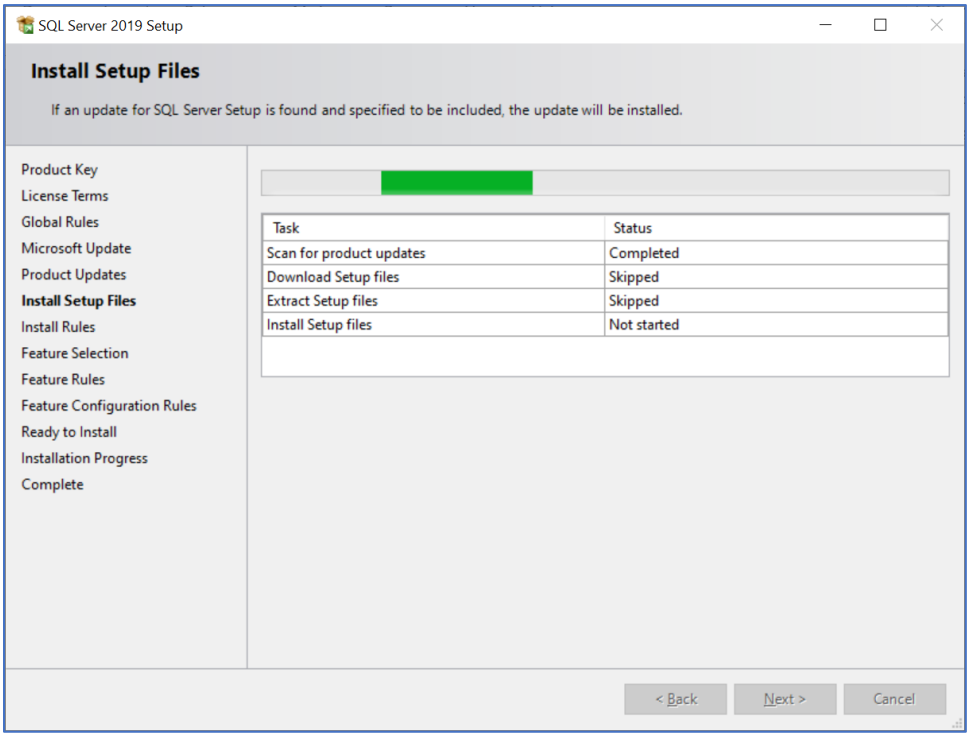
7. Select the "**I accept the license terms**" checkbox. Then, click the "**Next**" command button to continue.



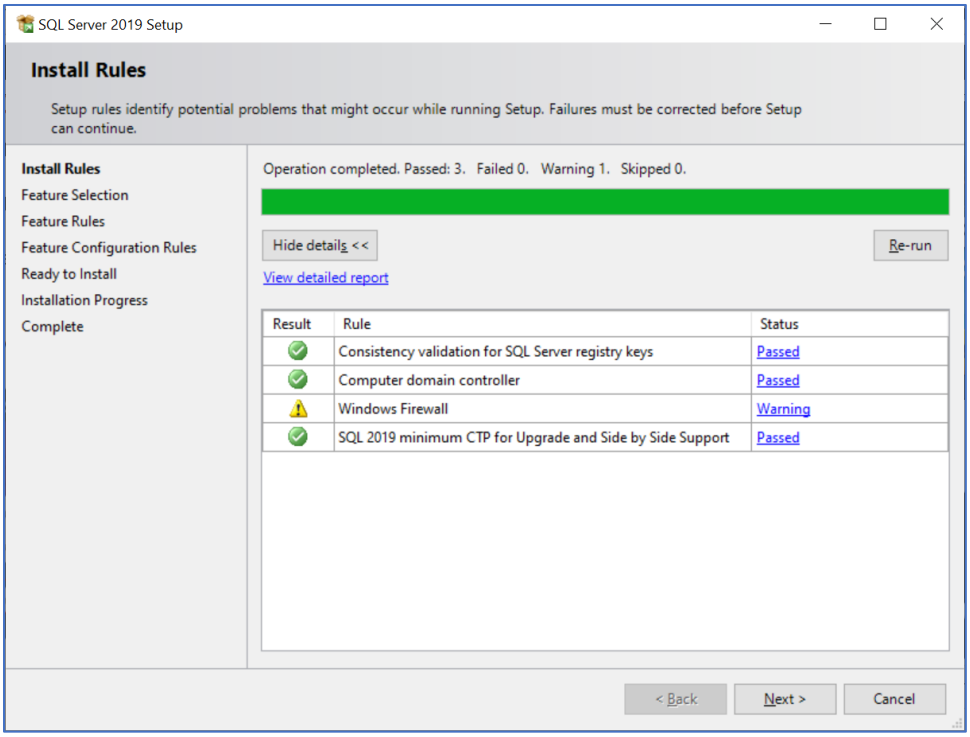
8. If preferred (this is optional), select the "**Use Microsoft Update to check for updates**" checkbox. Then, click the "**Next**" command button to continue.



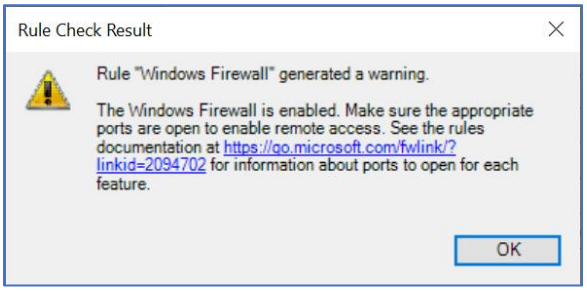
9. The setup process will check for any necessary updates.



10. Click the “Next” command button to continue.



Special notes: Warnings can be ignored (below is an example of the Windows Firewall message from above). However, if there are any errors at this point, please reach out to the IT team to resolve. The issue is likely related to the configuration/settings on the local computer this software is being installed on.



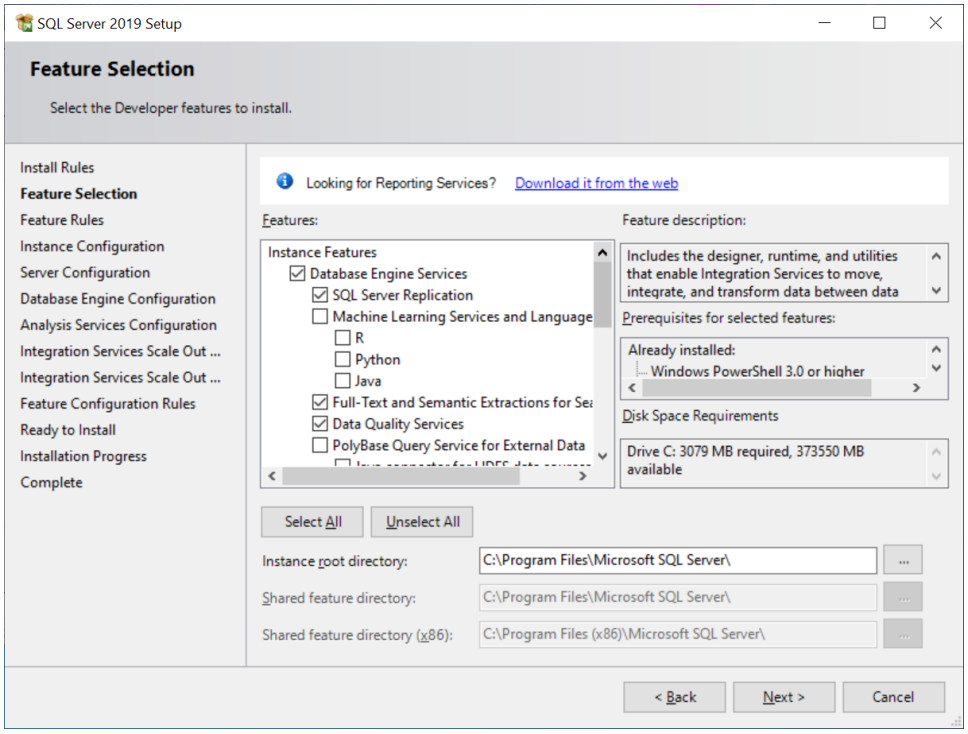
11. In the feature selection page, select only the features highlighted in yellow and listed as "Yes" below. Then, click the "**Next**" command button to continue. You'll be selecting the more "typical" features to install.

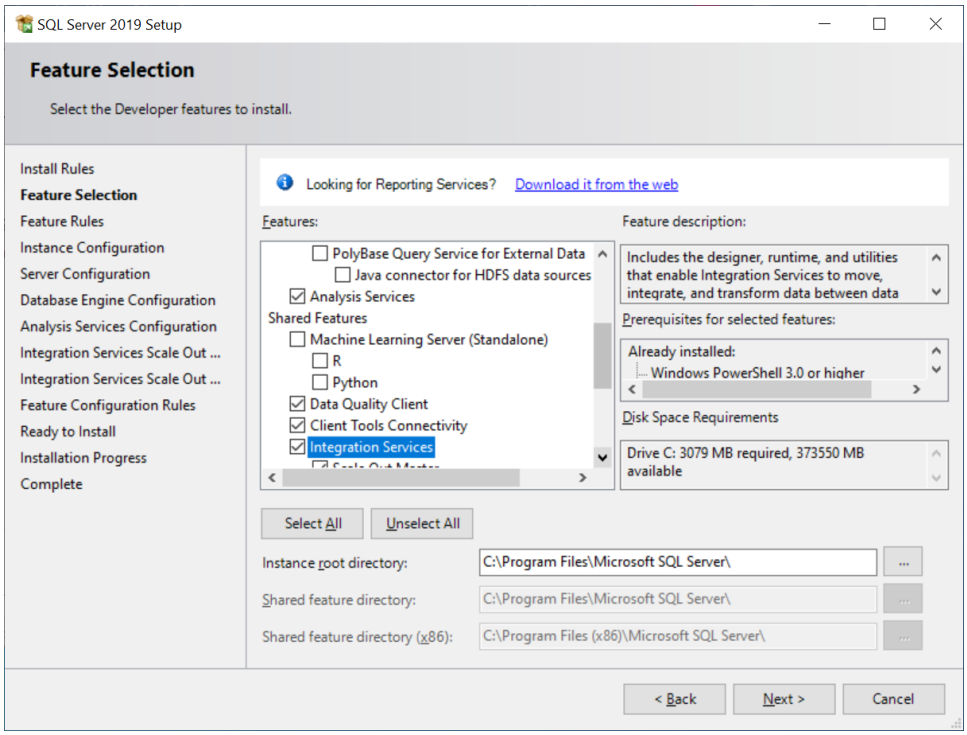
List of typical features to install:

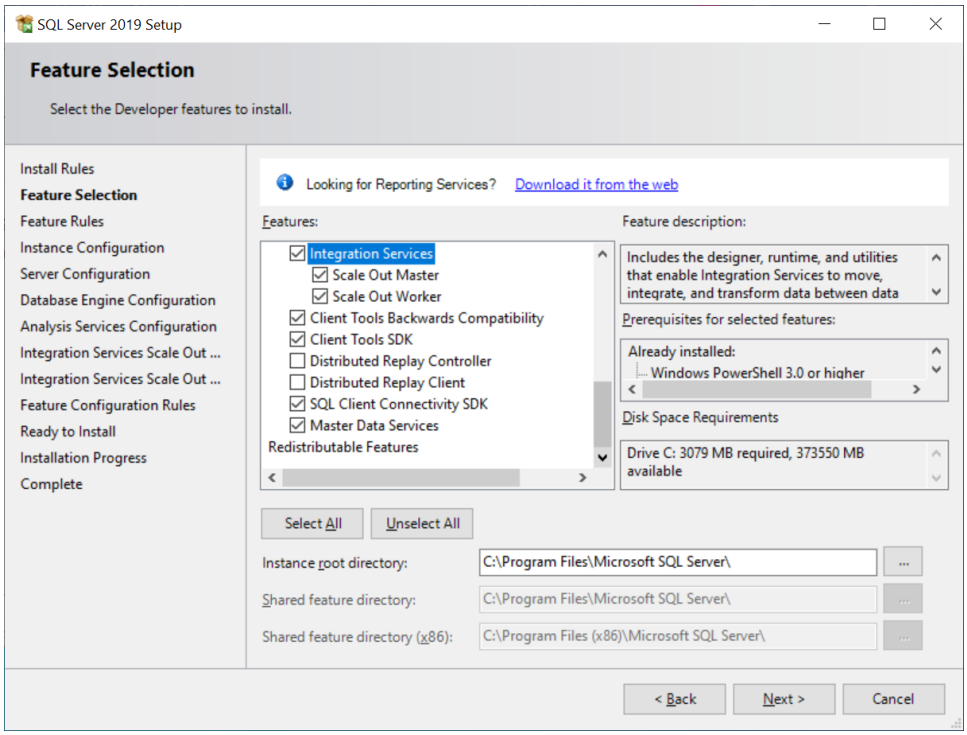
Features	Basic	Typical
Database Engine Services	Yes	Yes
SQL Server Replication	No	Yes
Machine Learning Server (Standalone)	No	No
R	No	No
Python	No	No
Java	No	No
Full-Text and Semantic Extractions	Yes	Yes
Data Quality Services	No	Yes
PolyBase Query Service for External Data	No	No
Java connector for HDFS data sources	No	No
Analysis Services	No	Yes
Machine Learning Server (Standalone)	No	No

R	No	No
Python	No	No
Data Quality Client	No	**Yes**
Client Tools Connectivity	**Yes**	**Yes**
Integration Services	No	**Yes**
Services Scale Out Master	No	**Yes**
Integration Services Scale Out Worker	No	**Yes**
Client Tools Backwards Compatibility	No	**Yes**
Client Tools SDK	No	**Yes**
Distributed Replay Controller	No	No
Distributed Replay Client	No	No
SQL Client Connectivity SDK	No	**Yes**
Master Data Services	No	**Yes**

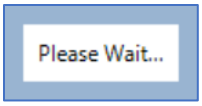
Screenshots



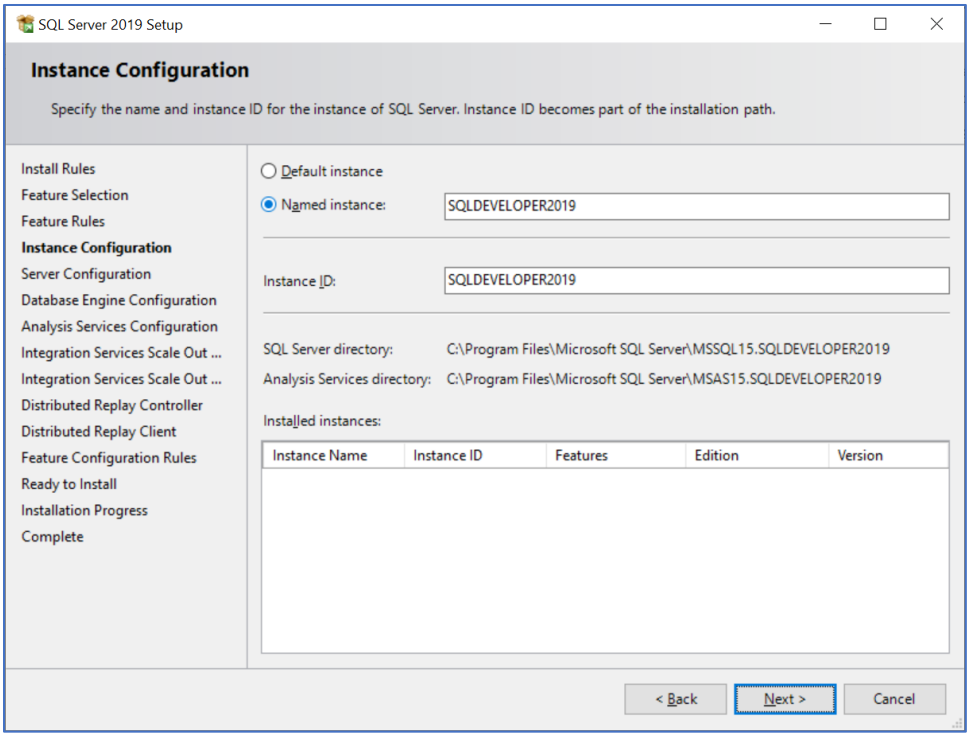




12. You may receive a “please wait” message.

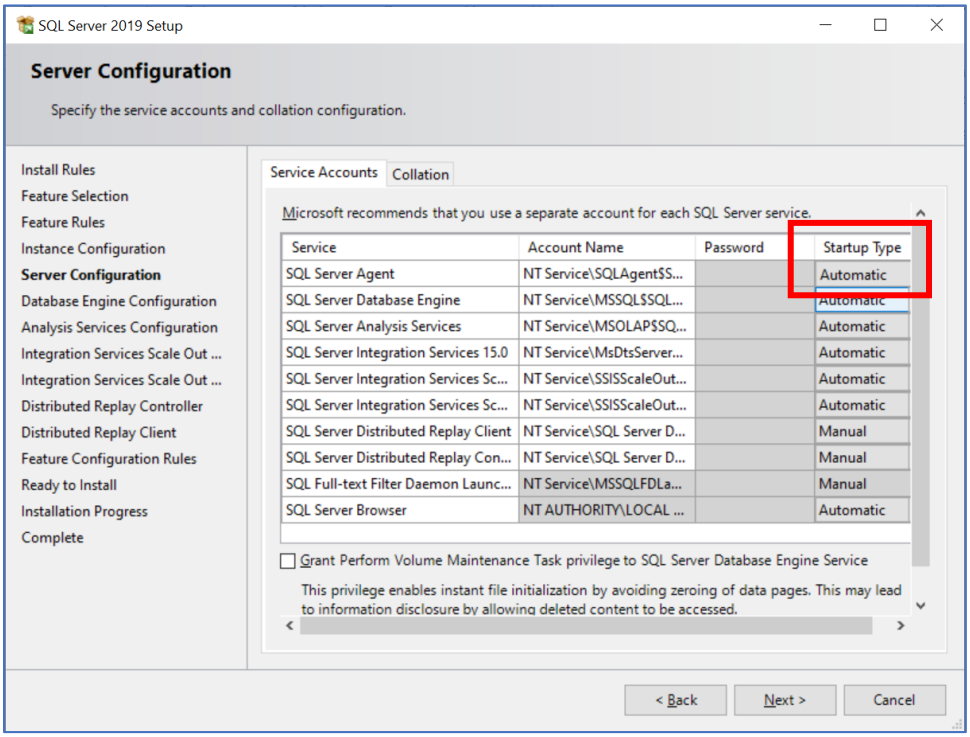


13. Select the “**Named Instance**” option button and enter “**SQLDEVELOPER2019**” in the associated text box. Then, click the “**Next**” command button to continue.



Special notes: The "**Default Instance**" can also be used, but its preferrable to name your own instance (in scenarios where you have multiple instances (installations of SQL Server) on the same computer this is helpful). Also, you can choose any name for you named instance. However, using the name of the edition and version as the named instance is preferrable.

14. Change the "**Startup Type**" for "**SQL Server Agent**" to "**Automatic**". Then, click the "**Next**" command button to continue.



15. This next step requires a few "sub-steps" and a brief explanation.

Steps:

1) Select the "**Mixed Mode**" option. See special notes below about the "windows authentication mode" option.

When you select “Mixed Mode”, this effectively allows you to log into SQL Sever under an system administrator account with the user name “sa”. Therefore, it will also ask you to enter a password.

2) Enter in a password for the “sa” system account / username.

3) Click the “Add Current User” command button to add your current Microsoft Windows account as an additional user.

   When you select “Mixed Mode”, you also need to add a Windows user as an account that can log into SQL Server. When you click this button, it will add the current Microsoft Windows (the one you are logged in as/under right now as you do the install) as the additional user. If you are in a corporate/business environment, this will be the network user .

   When you do this, it will automatically apply your same password in the background and use Windows Authentication when you log into SQL Server.

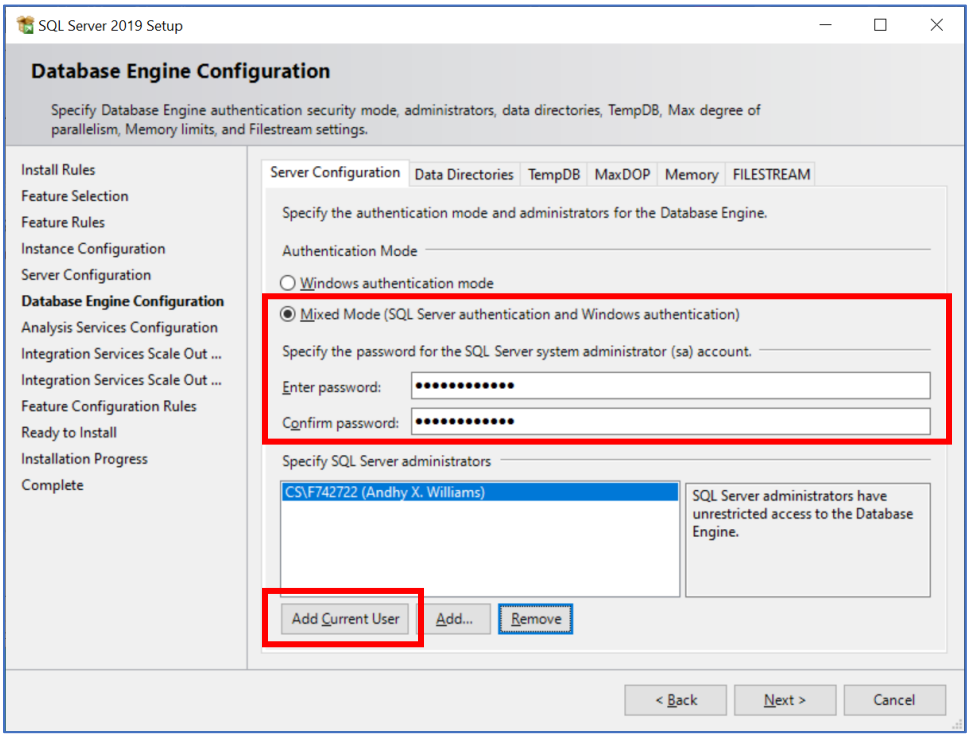
4) Done!

Summary

By select Mixed mode, you will therefore have two user accounts to log into SQL Server. You can use either one and both have the same administrator, ownership level access to SQL Server.

	Username	Password	Notes
User 1	**sa**	**{the password you added here}**	This is a default/built-in username that you can apply a custom password to, to log into SQL Server.
User 2	**{Your Windows user name}**	**{Your Windows password}**	This uses your current Windows account to log into SQL Server.

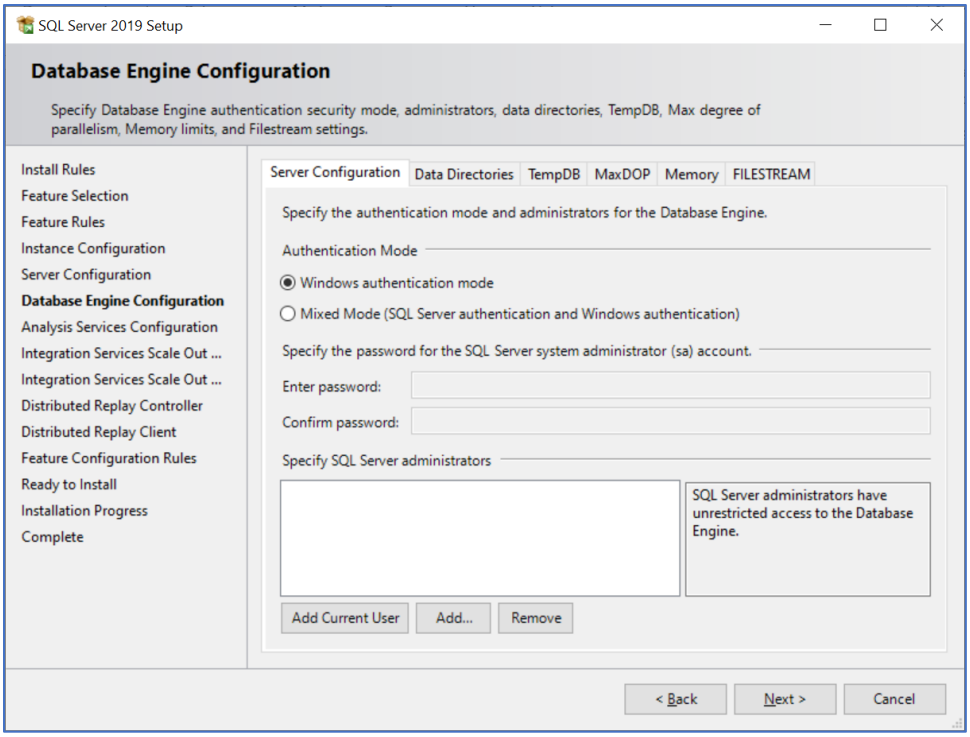
Screenshots:



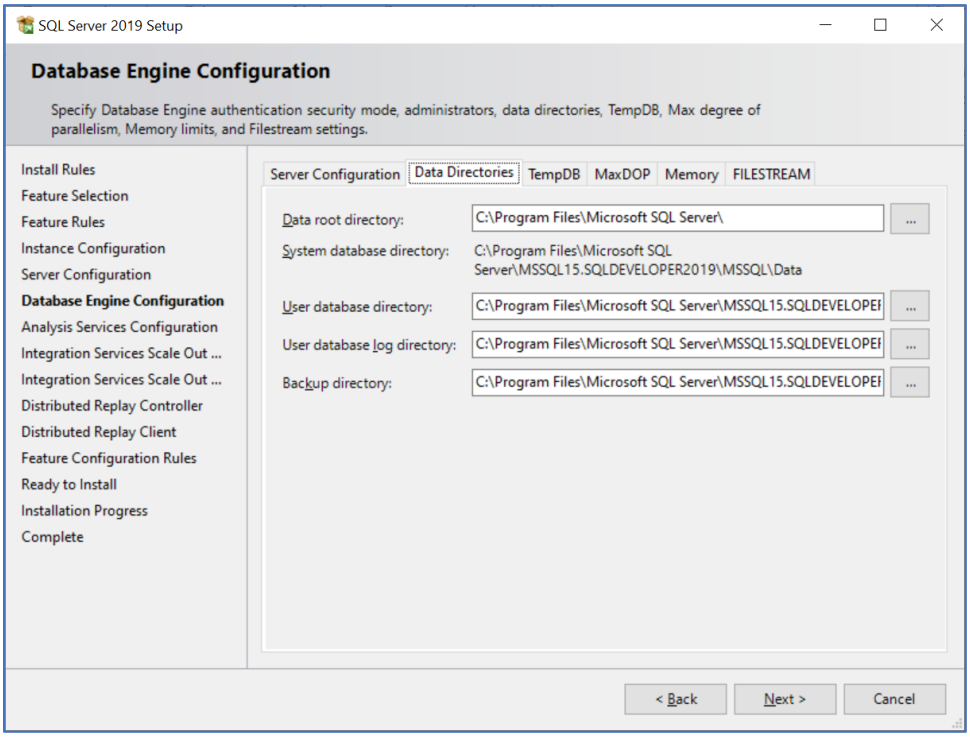
Special notes:

You can also add a different user other than the “current” user, by clicking the “Add” command button and working through the successive windows that appear afterward. However, the current user is all that is needed during the set up. You can always add additional user later.

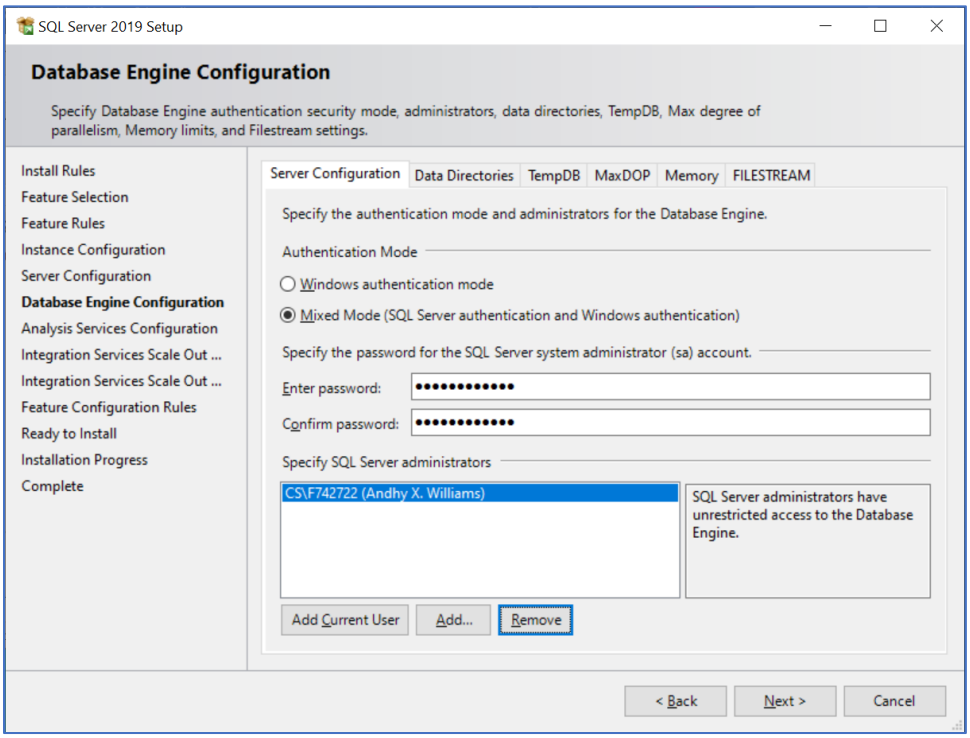
The “**Mixed Mode**” is typically preferred. However, for those unfamiliar with how to complete this install when selecting that option, the “**Windows authentication mode**” option mode will work as well. If you select this option, you will not have a “sa” system user account created. You will only be able to log into SQL Server using your current Microsoft Windows account



Also, you may also want to take a look at the “Data Directories” tab to review where the software will be installed. Typically, the default locations the setup process chooses will work. You can leave the default settings for the remaining tabs.

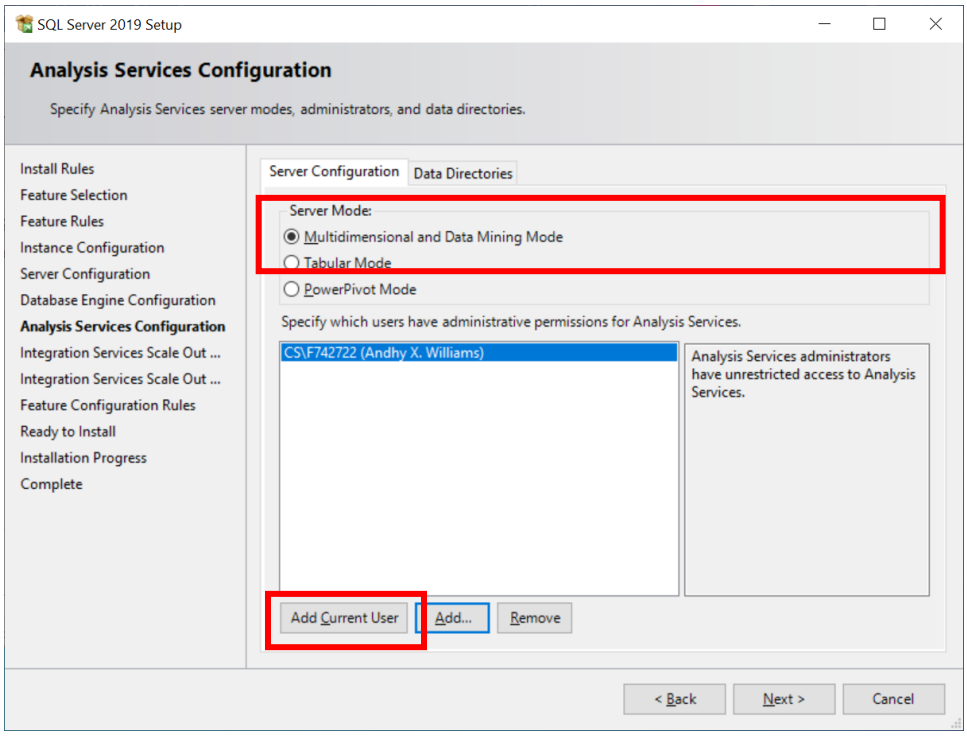


16. Once you made you selections, click the "**Next**" command button to continue.



17. Select the "**Multidimensional and Data Mining Mode**" option. Then, click the "**Add Current User**" command button to add the current Microsoft Windows user (the one you are using right now to do the install), click the "**Next**" command button to continue.

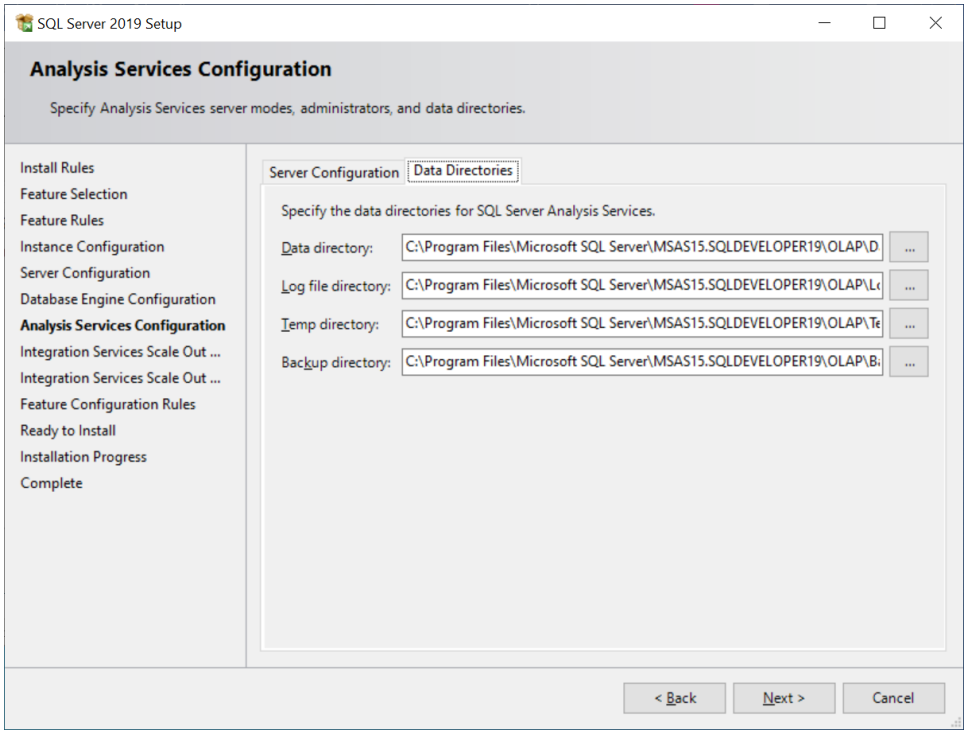
    This step is used to install **SQL Server Analytic Services (SSAS)** which allows you to build multi-dimensional databases.



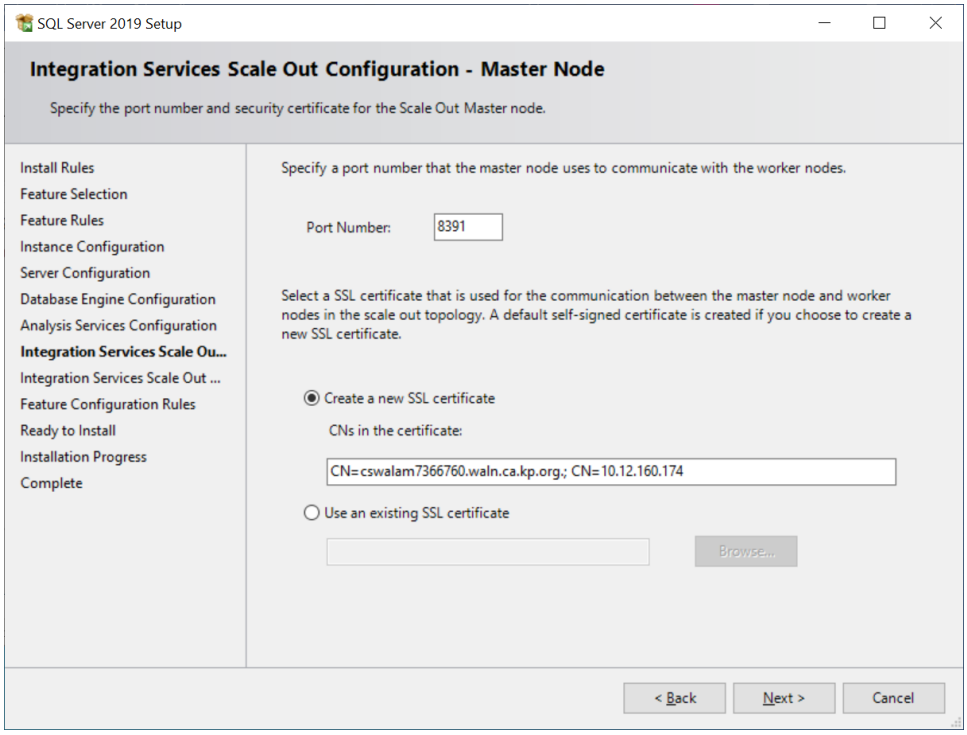
    Special notes:

You can also add a different user other than the “current” user, by clicking the “Add” command button and working through the successive windows that appear afterward. However, the current user is all that is needed during the set up. You can always add additional user later.

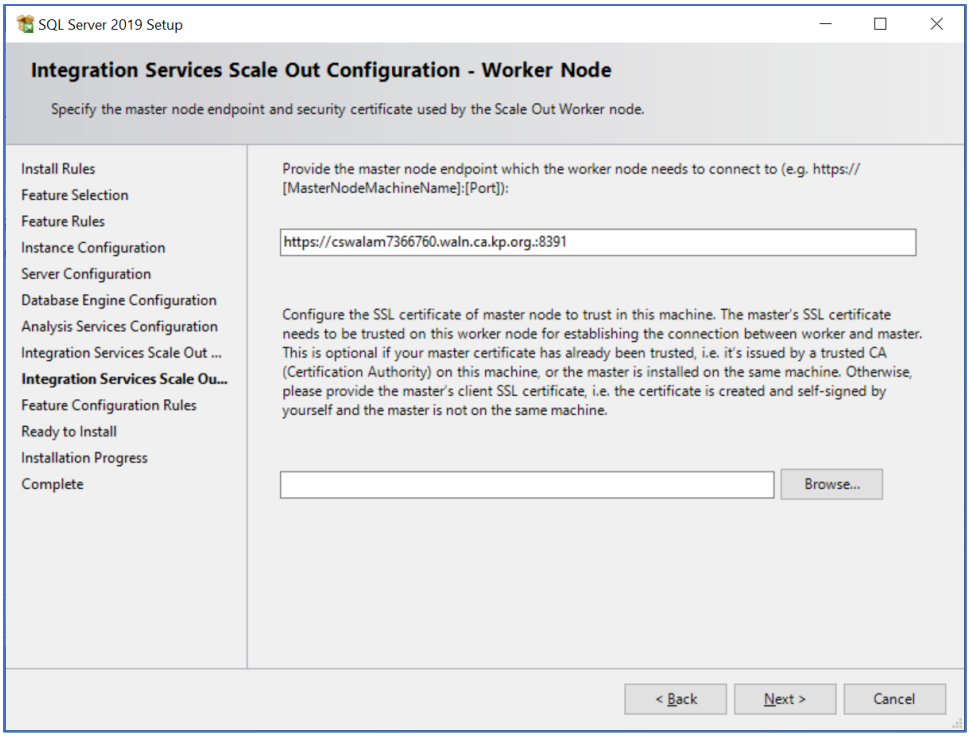
Also, you may also want to take a look at the “Data Directories” tab to review where the software will be installed. Typically, the default locations the setup process chooses will work. You can leave the default settings for the remaining tabs.



18. Select the “**Create a new SSL certicate**” option. Then, click the “**Next**” command button to continue.

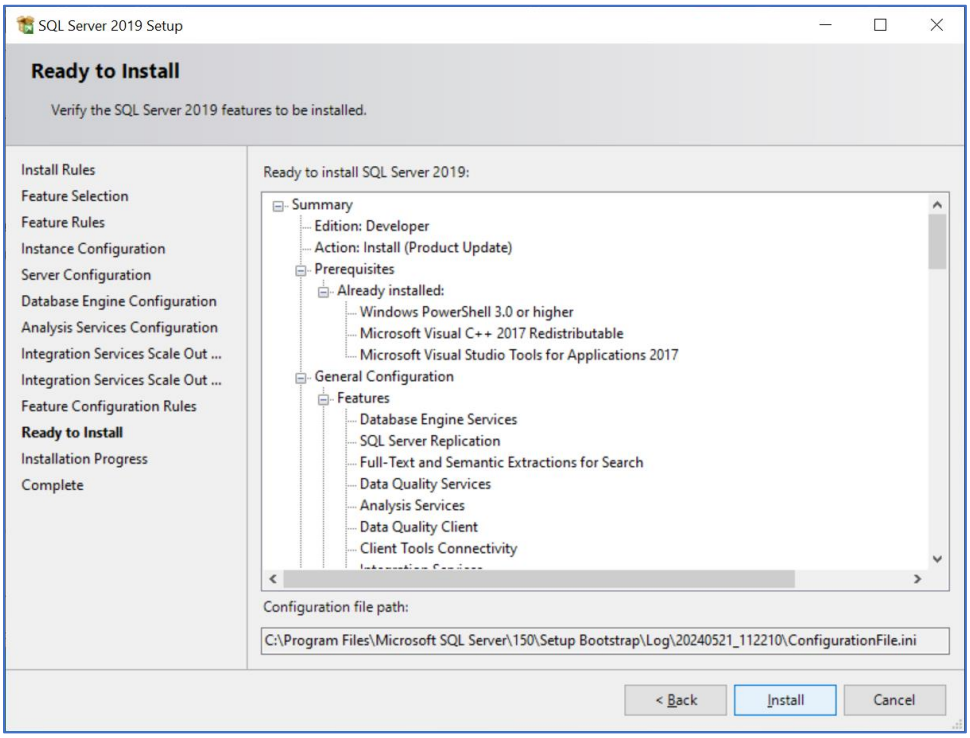


19. Leave the default settings. Then, click the “**Next**” command button to continue.

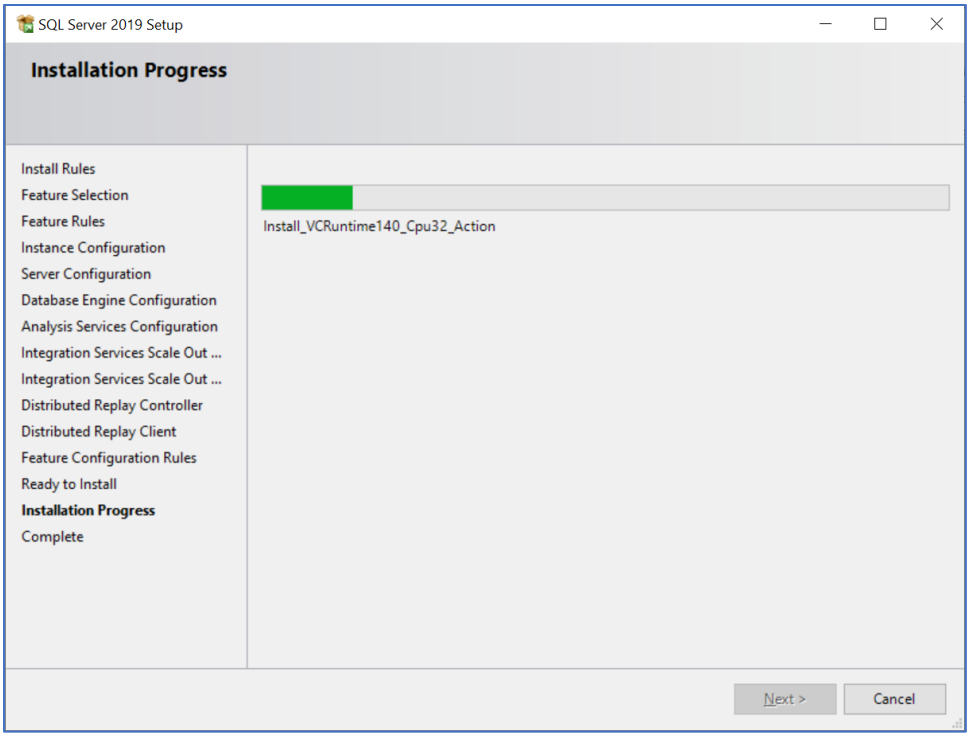


20. **Extra note before you continue**. Depending on the features you selected, you may get more steps (not shown here) that you'll need to navigate through. If you do, usually you can leave the default settings and move on to the next. If there is an area that requires you to add a user (as you did for the Database Engine and Analysis Services above), usually adding the "current" user is all you'll need to do.

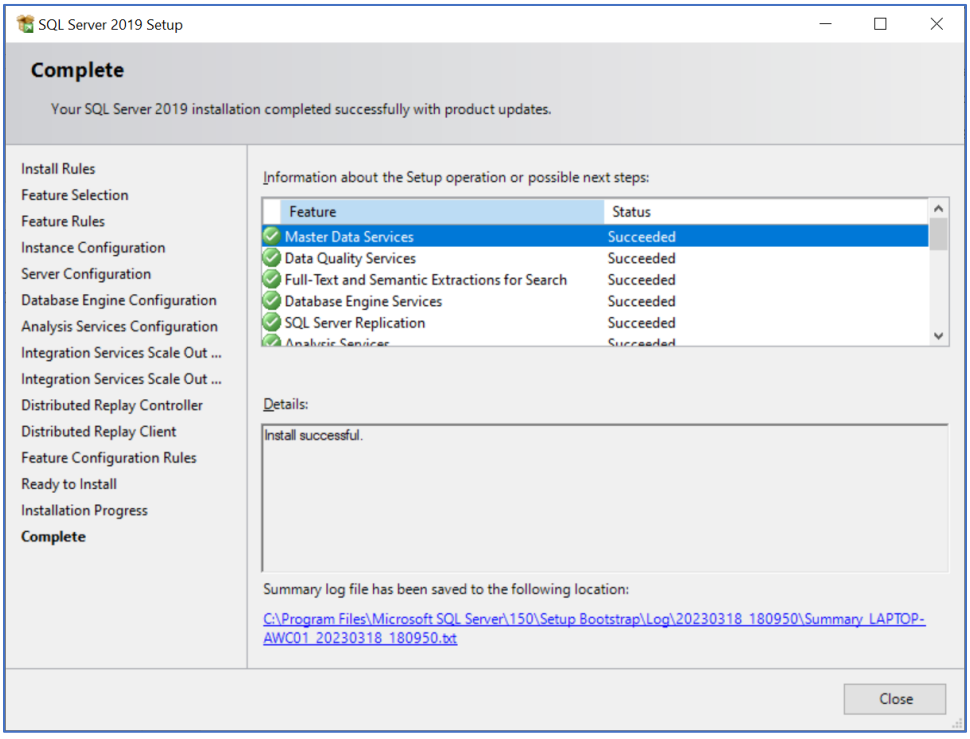
21. The installation should now be ready to complete. You can review the selections you made during the wizard if you prefer. When done, click the "**Install**" command button to begin the installation.



22. The installation process will begin.



23. Once the installation is completed, you'll receive a message that installation was successful.

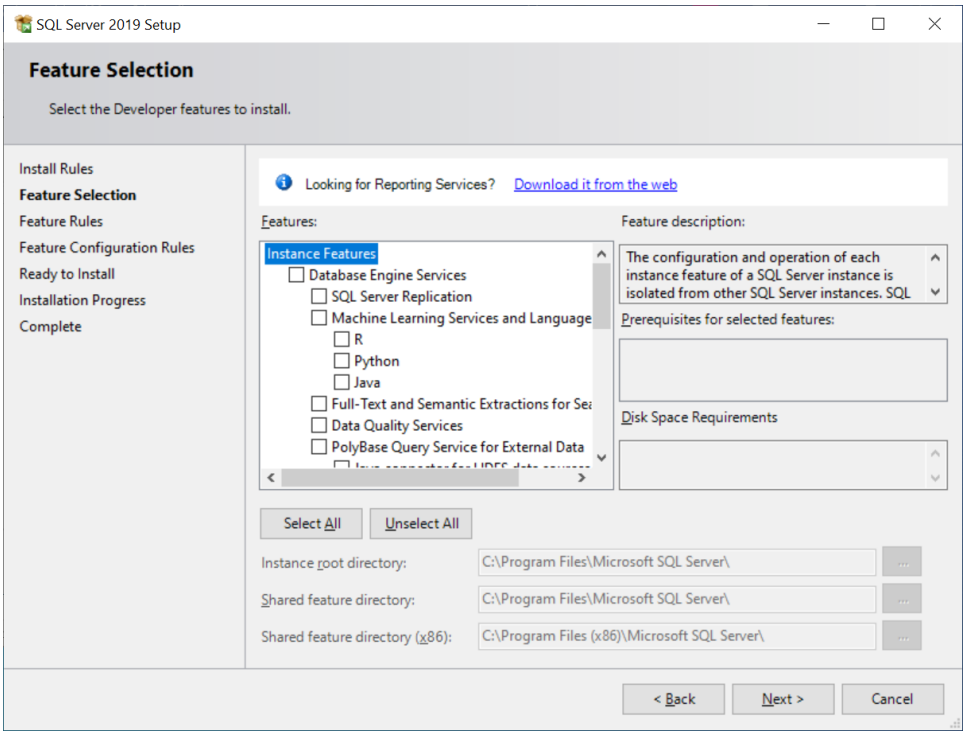


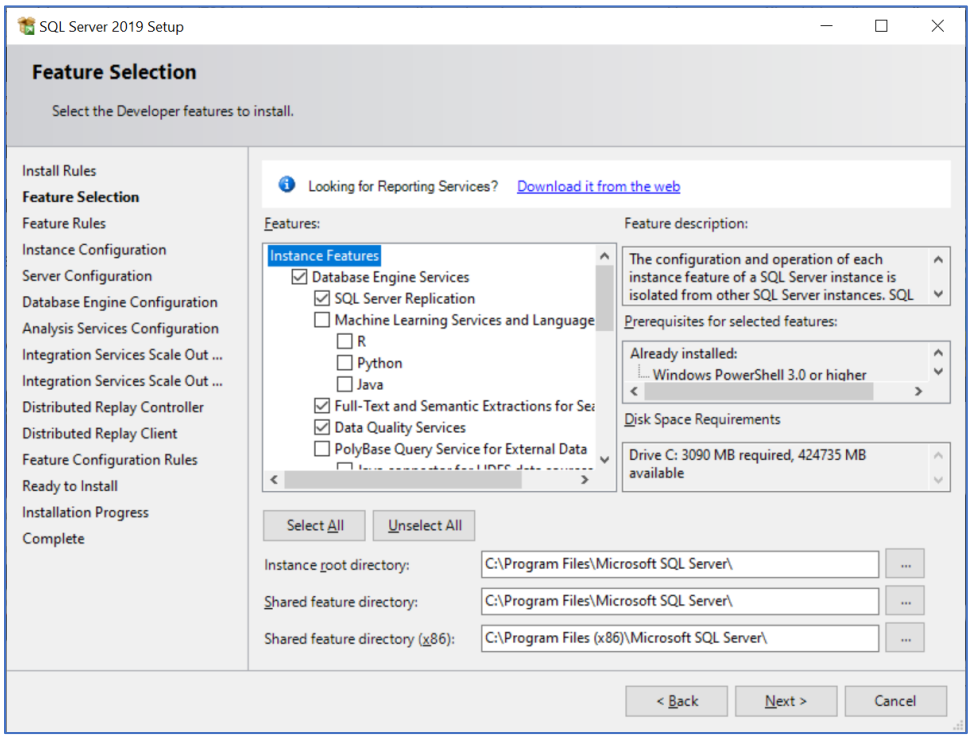
24. All done!

Appendix

Basic Features

If you want to only install the database engine, you can make the following features selections.





Potential Errors

Missing file “msodbcsql.msi”. If you get this error, the workaround is to locate the file from the Microsoft website and manually create the folder being looked for. Then place the file in that location.

