# Installing SQL Express 2019

Last Modified on 10/29/2024 3:10 pm CDT

SQL 2019 is not compatible with Windows 7, Windows Server 2008R2, or Windows Server 2012. It is only compatible with Windows 10, Windows Server 2016, and later operating systems.

**Note**: The installation and setup process is lengthy and quite detailed. If assistance is needed at any time during the process, please contact a member of the IS Support team.

 Download SQL Server 2019 by going to https://www.microsoft.com/en-us/Download/details.aspx? id=101064. Select Download.

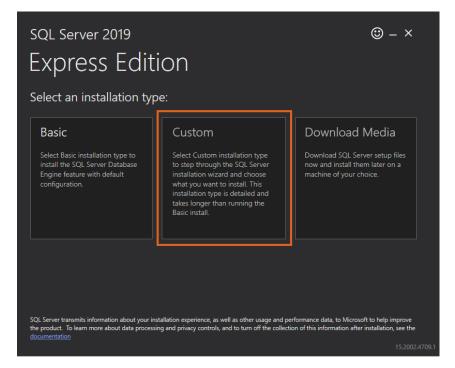
Note: To download the Standard edition, the product must be licensed from Microsoft.

Microsoft® SQL Server® 2019 Express

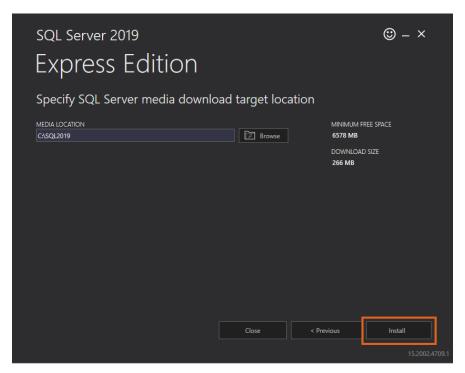


Microsoft® SQL Server® 2019 Express is a powerful and reliable free data management system that delivers a rich and reliable data store for lightweight Web Sites and desktop applications.

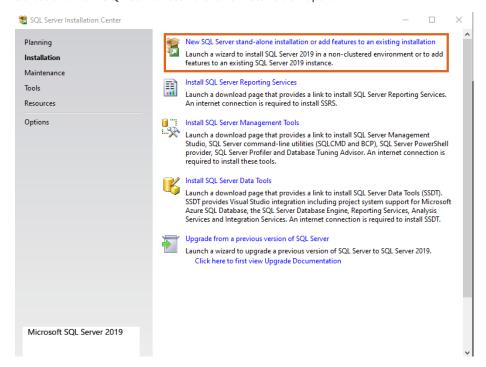
2. Select Custom.



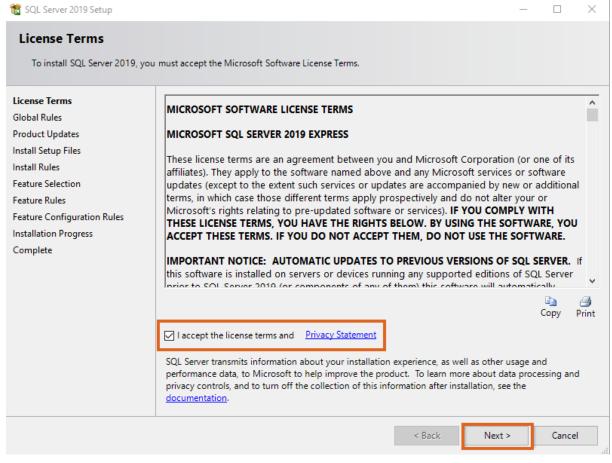
3. After initial setup, the following screen displays. Select Install.



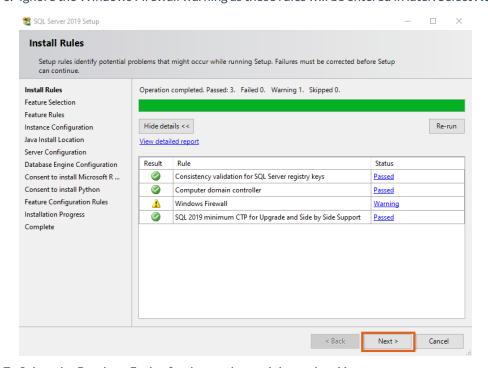
4. Select the New SQL Server stand-alone installation option.



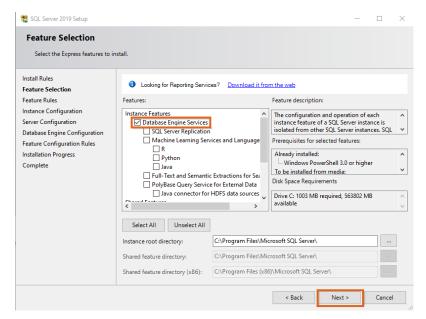
5. Check the box to accept the license terms and select **Next**.



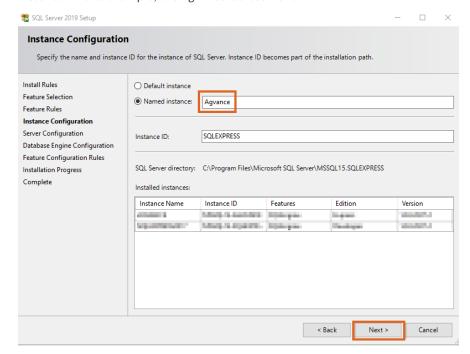
6. Ignore the Windows Firewall warning as those rules will be entered in later. Select Next.



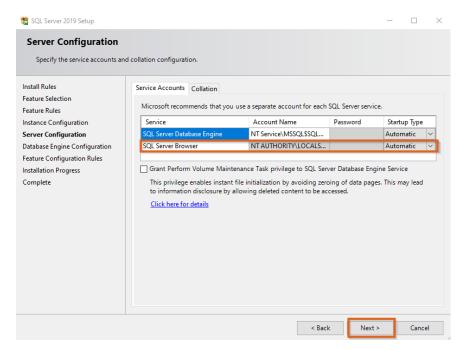
7. Select the Database Engine Services option and then select Next.



8. On the *Instance Configuration* window, choose the *Named instance* option and enter a name for the SQL instance. In this example, it is *Agvance*. Select **Next**.

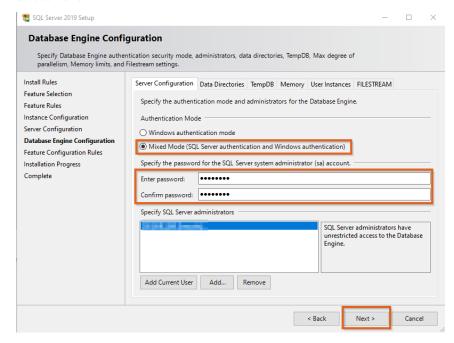


9. On the Server Configuration window, make sure the Startup Type for the SQL Server Browser service is set to Automatic and select **Next**.

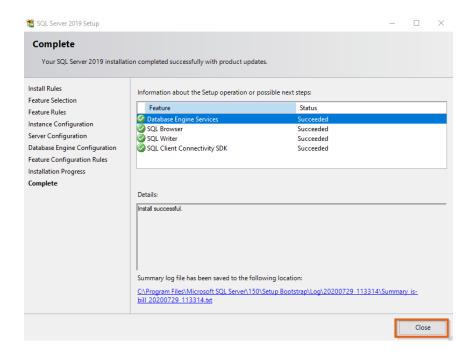


10. Choose the Mixed Mode (SQL Server authentication and Windows authentication) option and create a password.

#### Select Next.



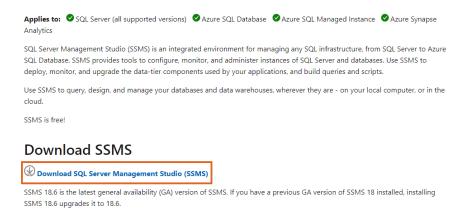
11. Select the Install button and allow the install to finish. Select Close.



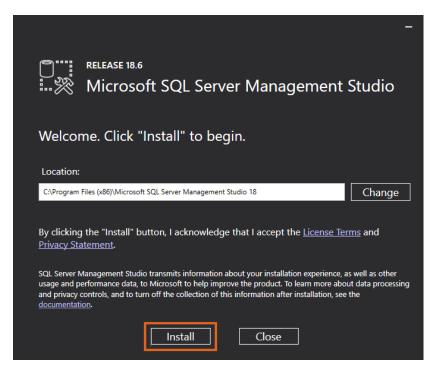
## Installing Management Studio

1. Go to https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms, and download SQL Server Management Studio.

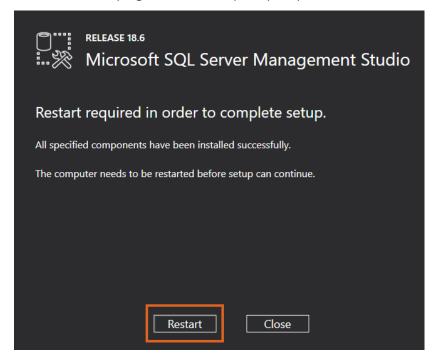
### **Download SQL Server Management Studio (SSMS)**



2. After the download completes, run the file and then choose Install.



3. As the installation progresses, there may be a prompt to reboot the machine to complete the installation.

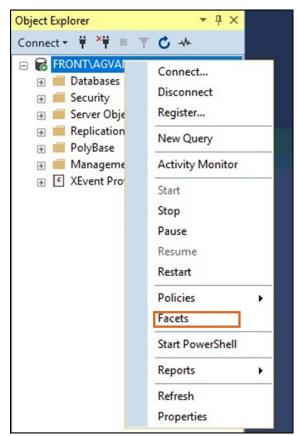


## Configuring SQL Express 2019

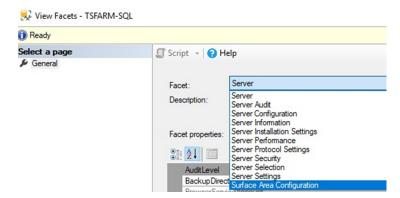
1. Open SQL Server Management Studio and log in via SQL Server Authentication using the sa login. Enter the password created on Step 10 of the Installing SQL Express 2019 section.



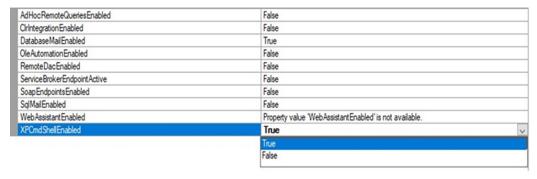
2. After logging in, right-click on the SQL Server instance name, and selectFacets.



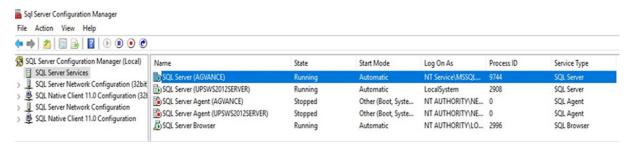
3. From the Facet drop-down list, choose Surface Area Configuration.



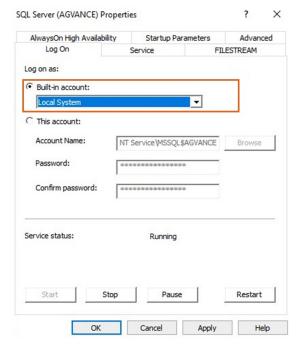
4. Set the XPCmdShellEnabled option to True and exit SQL Server Management Studio.



- Open SQL Server Configuration Manager by navigating to C:\Windows\SysWOW64\SQLServerManager15.msc.
- 6. In the left panel, select *SQL Server Services*. In the right panel, right-click the installed SQL Server instance, and choose *Properties*.



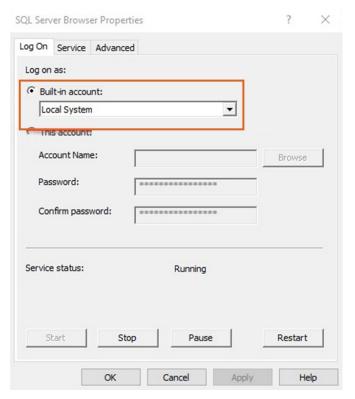
7. On the *Log On* tab, select the *Built-in account* option, and choose *Local System* from the drop-down list. Select **Apply**. When the prompt to restart the service appears, select **OK**.



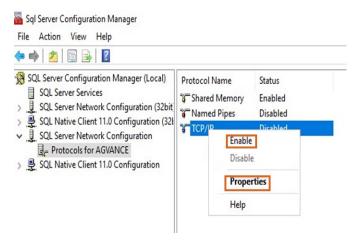
8. In the right panel of the SQL Configuration Manager window, right-click SQL Server Browser, and choose Properties.

Name	State	Start Mode	Log On As	Process ID
SQL Server (AGV	Running	Automatic	LocalSystem	4580
SQL Full-text Filte	Running	Manual	NT Service\MSSQL	6400
SQL Server Launc	Running	Automatic	NT Service\MSSQL	6908
SQL Server Agent	Stopped	Other (Boot, Syste	NT AUTHORITY\NE	0
SQL Server Browser	Running	Automatic	LocalSystem	4452

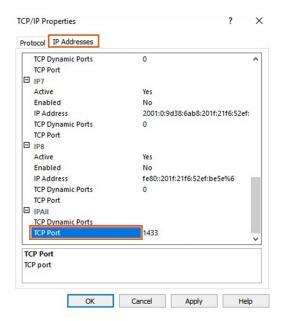
9. Similar to how the SQL Service is set up, select the *Built-in* account option on the *Log On* tab, and choose *Local System* from the drop-down menu. Click **Apply** and select **OK** when prompted.



- 10. Select the SQL Server Network Configuration in the left panel of the SQL Server Configuration Manager window.
- 11. In the left panel, double-click the option for the installed SQL instance.
- 12. Right-click the *TCP/IP* option, and select *Enable*. When the prompt to restart the instance appears, select **OK**. Right-click *TCP/IP* again, and select *Properties*.

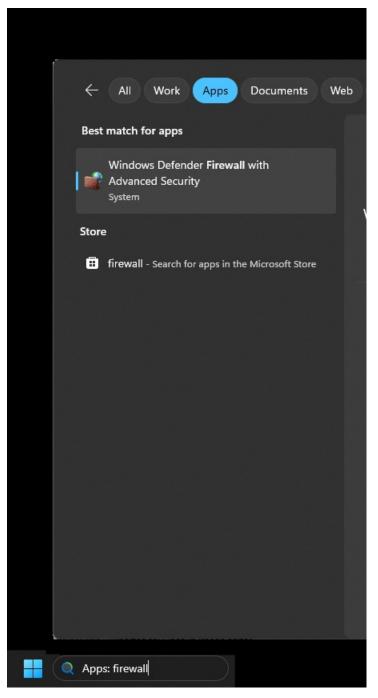


13. Go to the *IP Addresses* tab and scroll to the bottom of the window. Remove any TCP Dynamic Ports that may be listed (this value will most likely be 0), and then enter a port number for the TCP Port option (choose any port number desired). Write this port number down, as it is needed later when creating a firewall rule. Select **Apply** and then **OK** when the warning to restart the SQL Service appears.

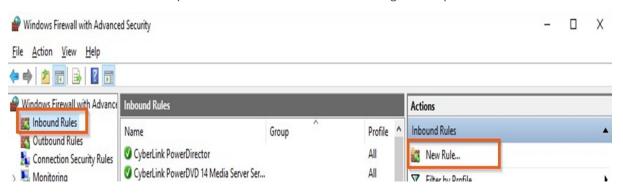


- 14. Return to the *SQL Server Services* option in the left panel of the *SQL Server Configuration Manager* window.

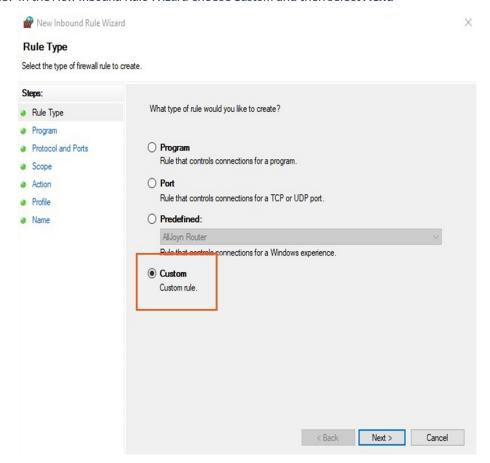
  Restart both the SQL Server Service (with the installed instance name) and the SQL Server Browser. This can be done by right-clicking each service and choosing *Restart*.
- 15. Close the *SQL Server Configuration Manager* and open the machine's Windows Firewall with Advanced Security.
- 16. On the desktop, in the search box of the Taskbar, type in "firewall". Select Windows Firewall with Advanced Security.



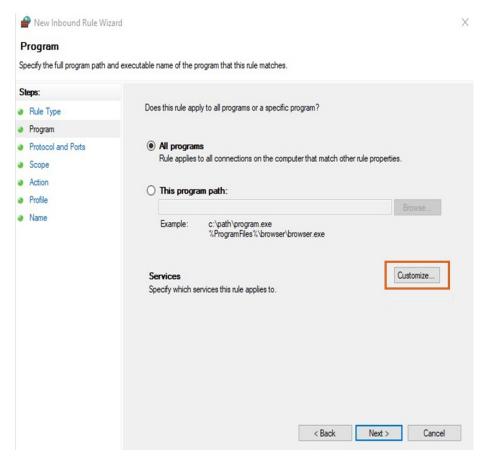
17. Select *Inbound Rules* in the left panel and then select *New Rule* in the right-most panel.



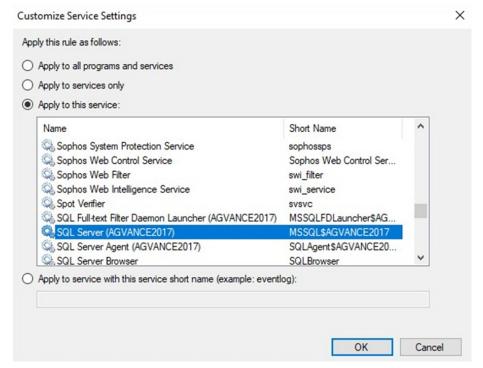
18. In the New Inbound Rule Wizard choose Custom and then select Next.



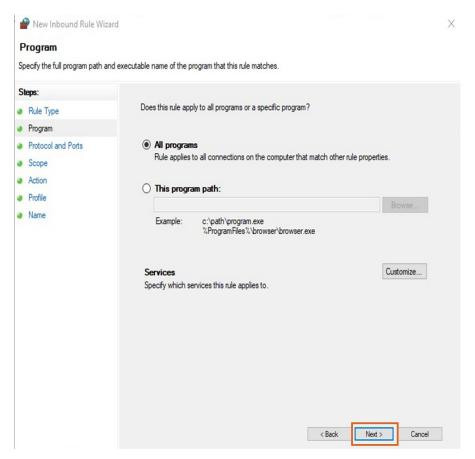
19. Select Customize.



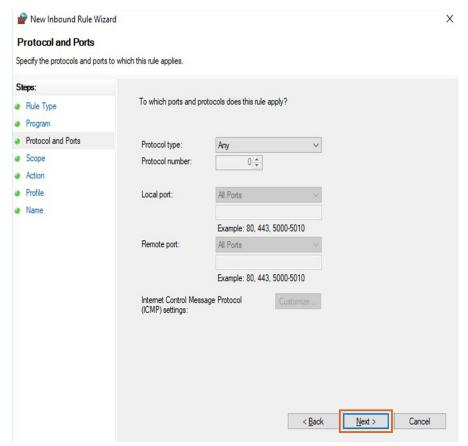
20. Choose Apply to this service and scroll down the list of services to select the SQL Server. Choose OK.



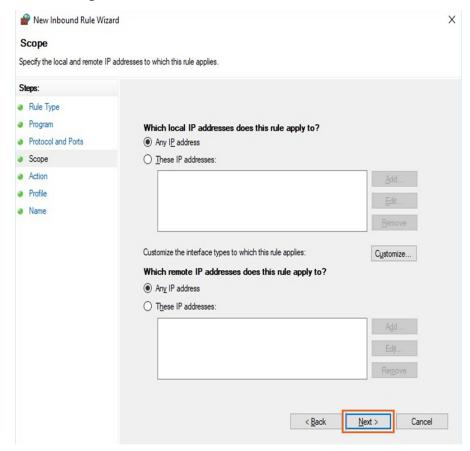
21. Select Next.



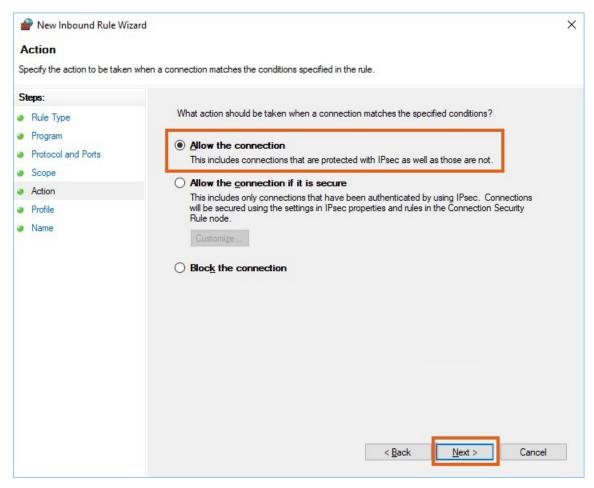
#### 22. Select Next.



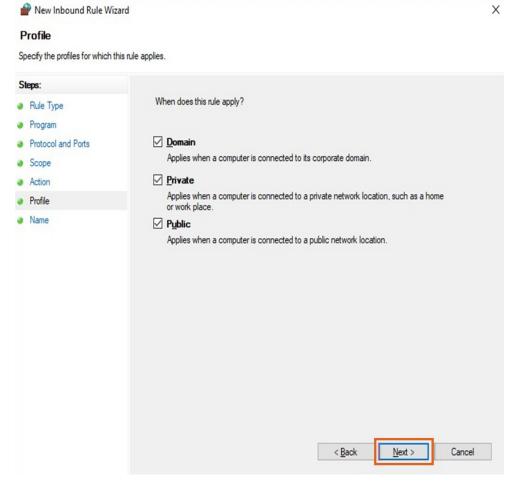
### 23. Select Next again.



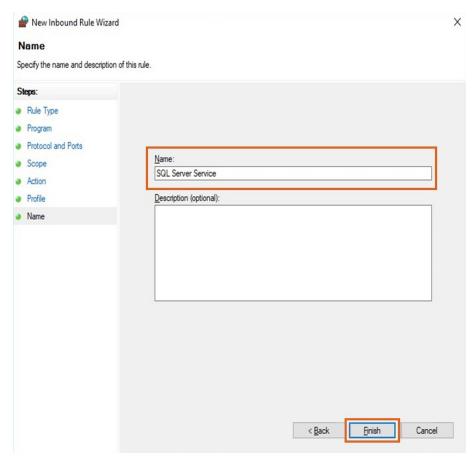
24. Select Allow the connection then choose Next.



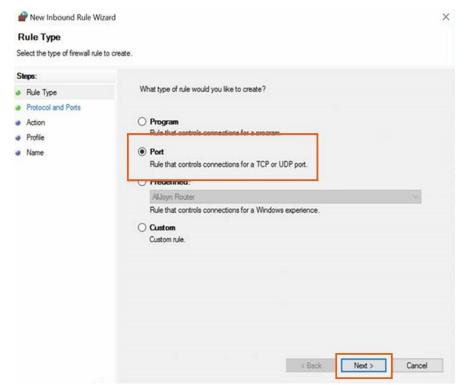
25. Select Next.



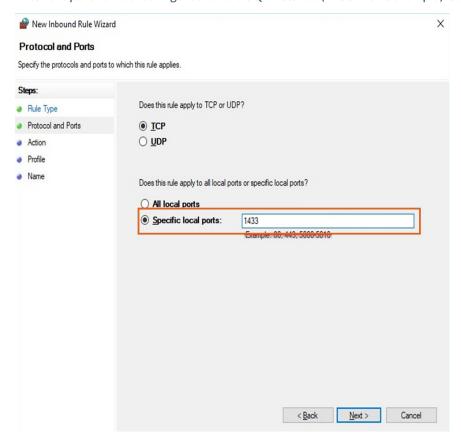
26. Name the rule. For example, the Name below is SQL Server Service. Select Finish.



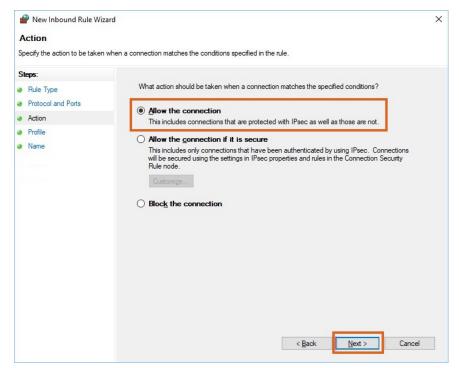
- 27. Repeat Steps 17-26 of this section, but this time, create the rule for the SQL Server Browser Service. Choose the SQL Server Browser in Step 20.
- 28. Choose to create another rule and select the Port option. Select Next.



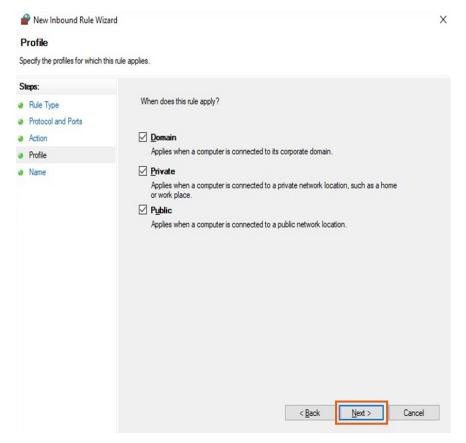
29. Enter the port number configured for the SQL instance (1433 in this example). Select Next.



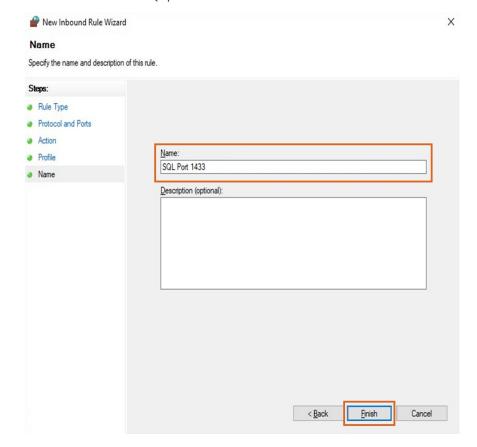
30. Select the Allow the connection option and select Next.



31. Select Next.



32. Enter a Name for the SQL port rule and select Finish.



SQL Express 2019 should now be installed and configured.