



# SQL Server 2022 Express Installation Instructions

# Table of Contents

<b>1</b>	<b>SQL SERVER 2022 EXPRESS INSTALL .....</b>	<b>3</b>
<b>2</b>	<b>SQL SERVER EXPRESS CONSIDERATIONS.....</b>	<b>19</b>
<b>3</b>	<b>SQL SERVER MEMORY SIZE MANAGEMENT .....</b>	<b>21</b>

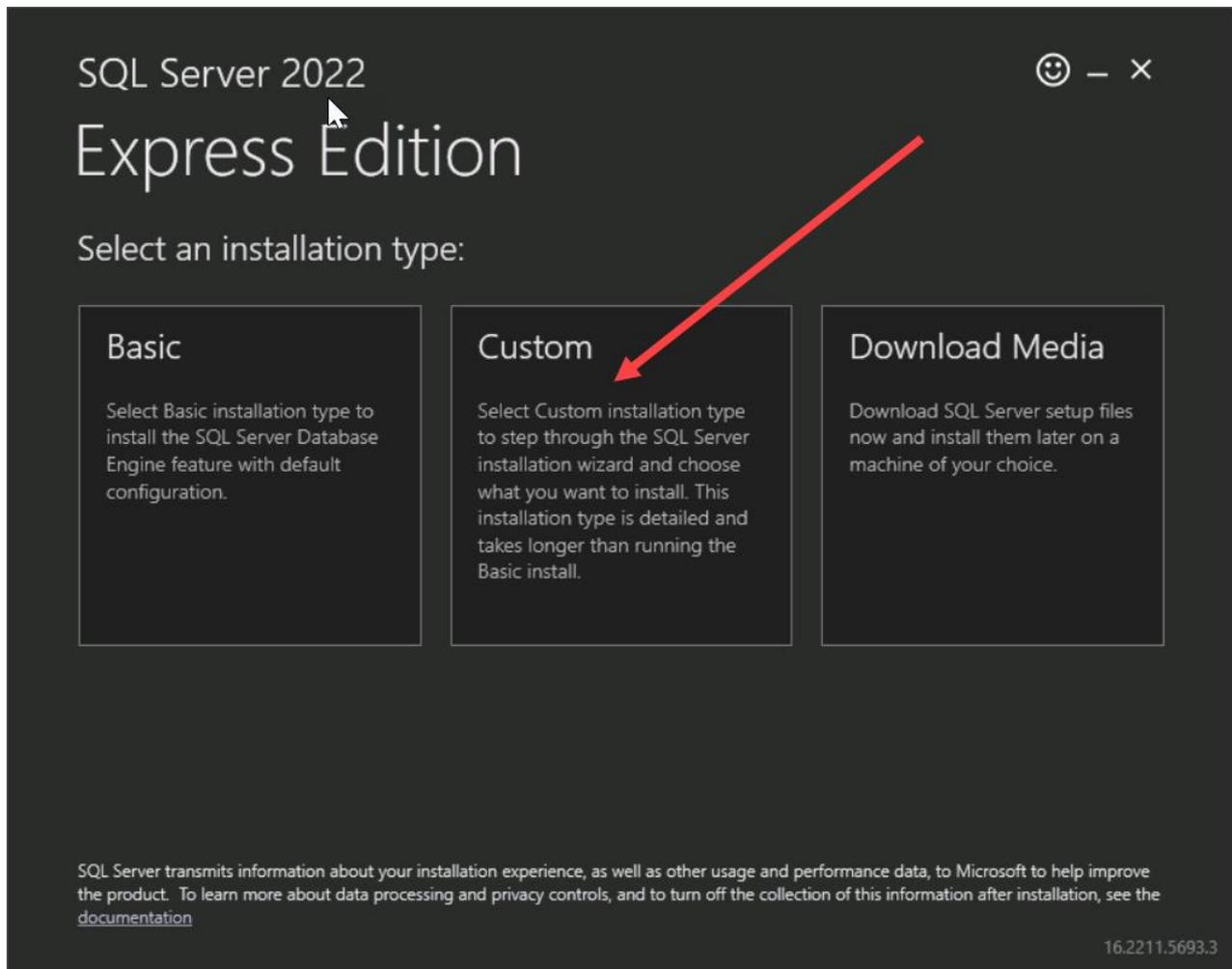
# 1 SQL Server 2022 Express Install

Ensure the server you intend to install SQL Express 2022 has access to the internet. Part of this installation process requires SQL to download some source files automatically. If you don't have internet access, you can run this same installer on another machine that does, but choose the "Download Media" link in the first screenshot below. You can then transfer the full source files to your database server and perform the install manually.

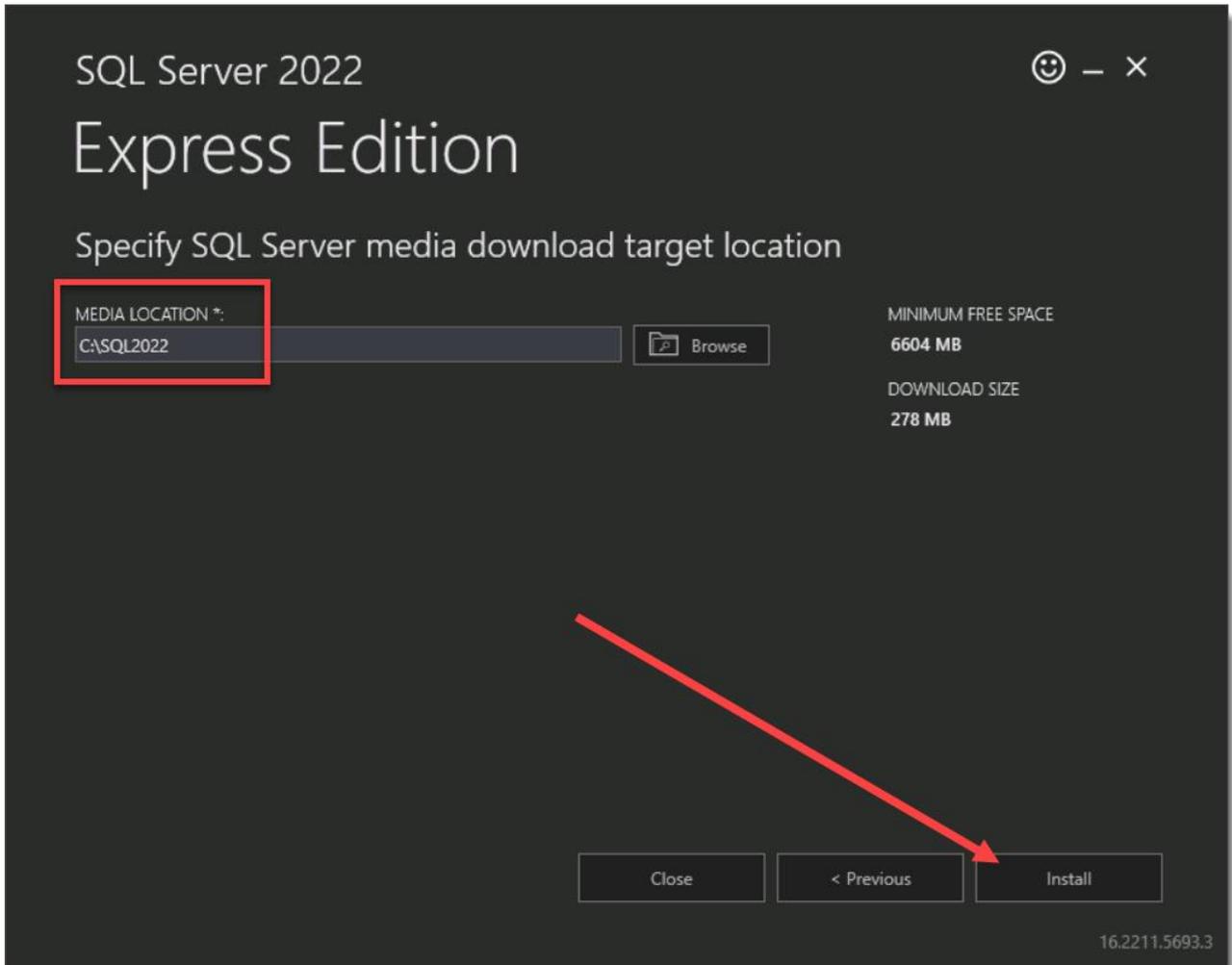
If you haven't done so already, please download SQL Server 2022 Express installer from the following link - <https://www.microsoft.com/en-us/sql-server/sql-server-downloads>

## Installation Instructions

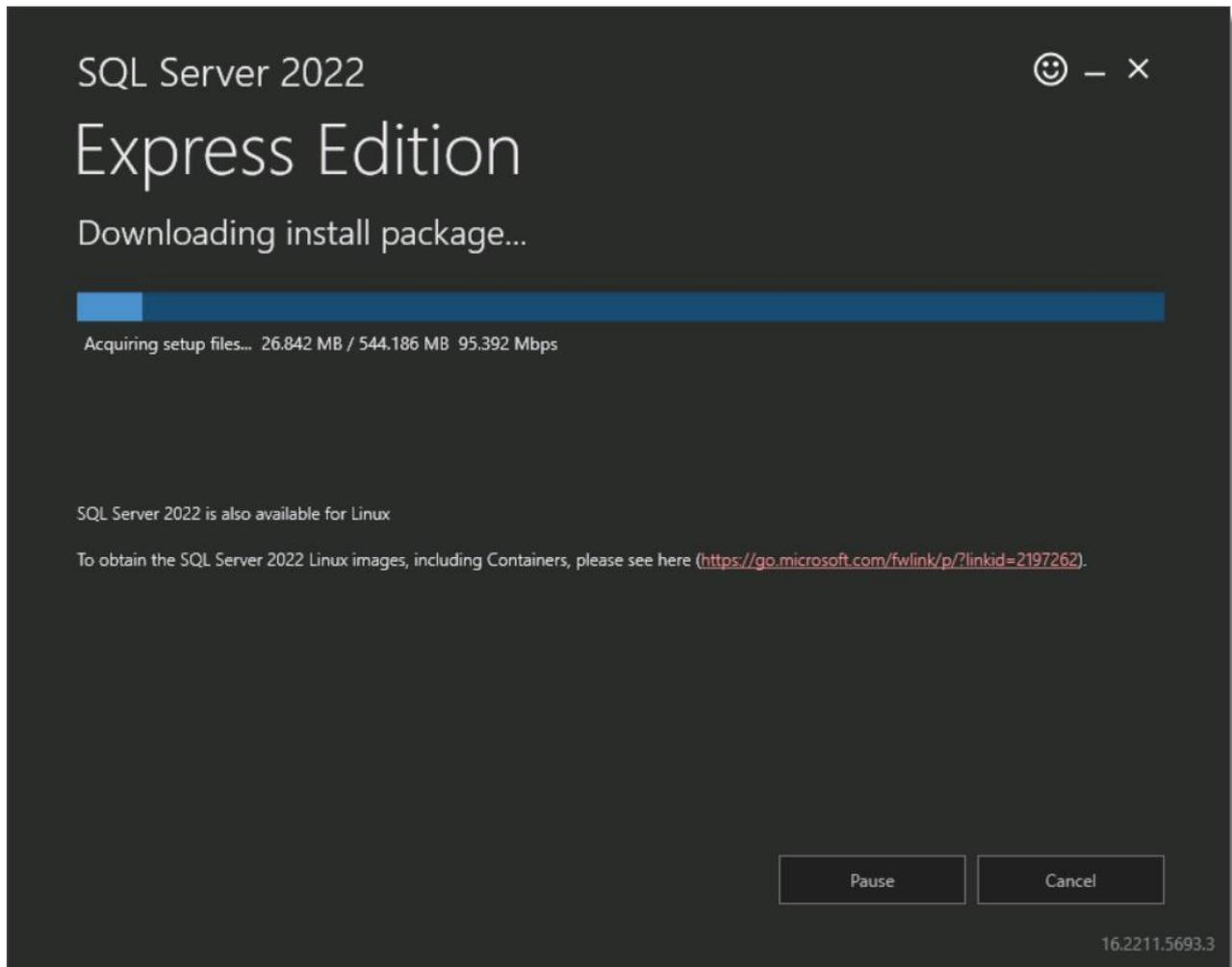
- Run the **SQLServer2022-SSEI-Expr.exe**
- At the 'Installation type' screen, select '**Custom**'



- Choose a location where the SQL 2022 Source files will download to, and click **Install**:

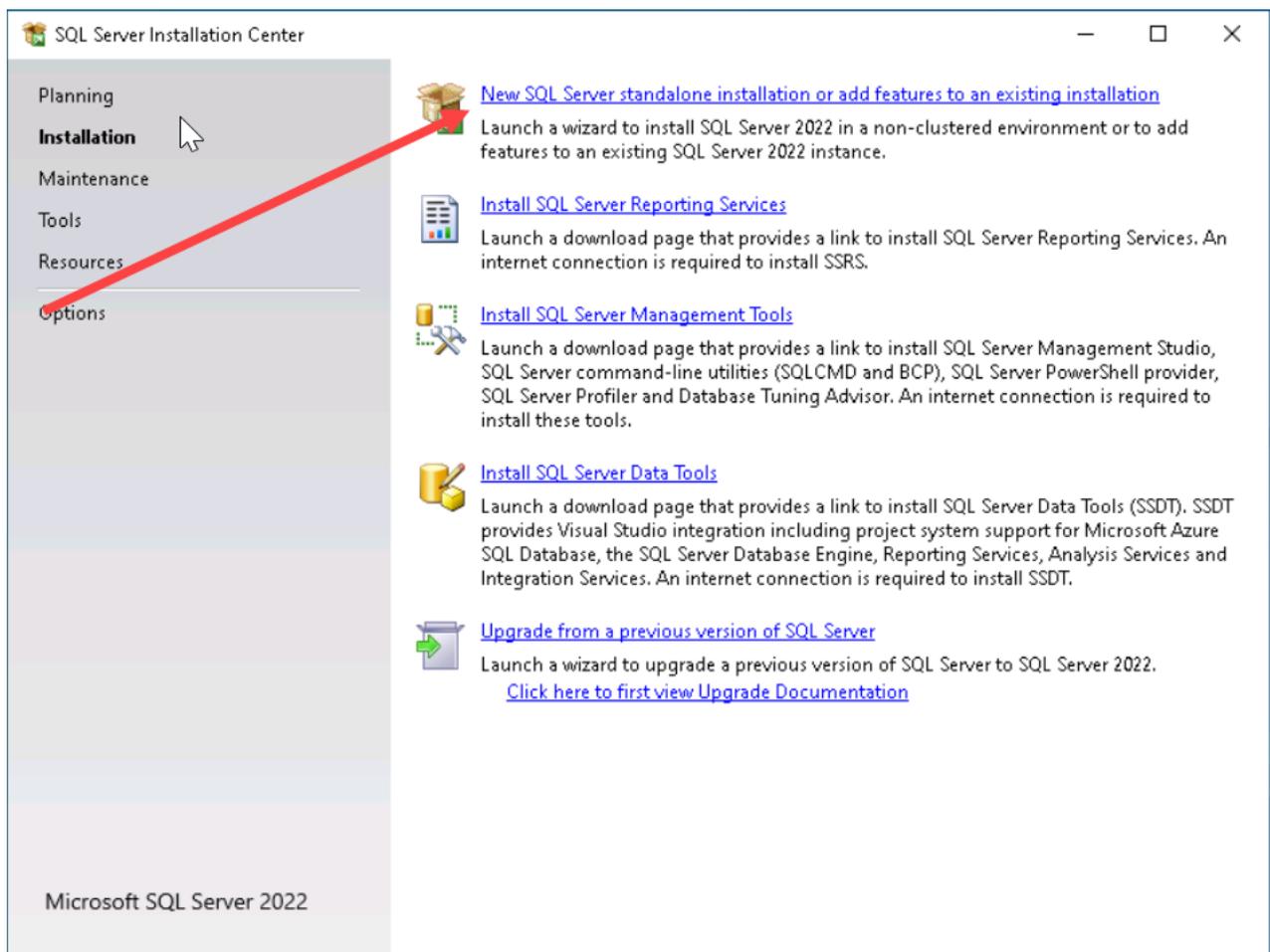


- The installer will now download the necessary source files:



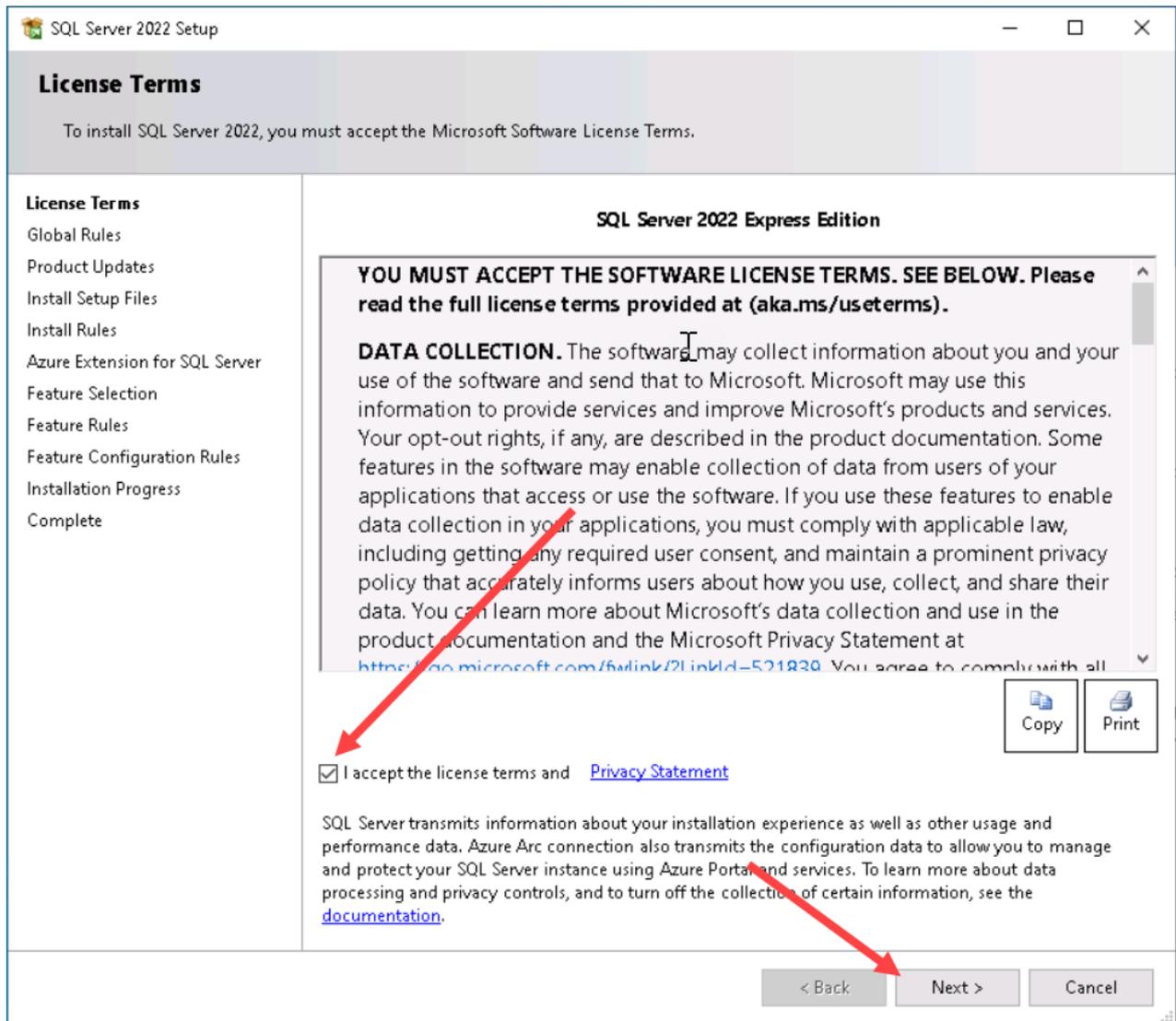
## Click Studios

- At the Installation Screen, select the **“New SQL Server stand-alone installation or add features to an existing installation”**

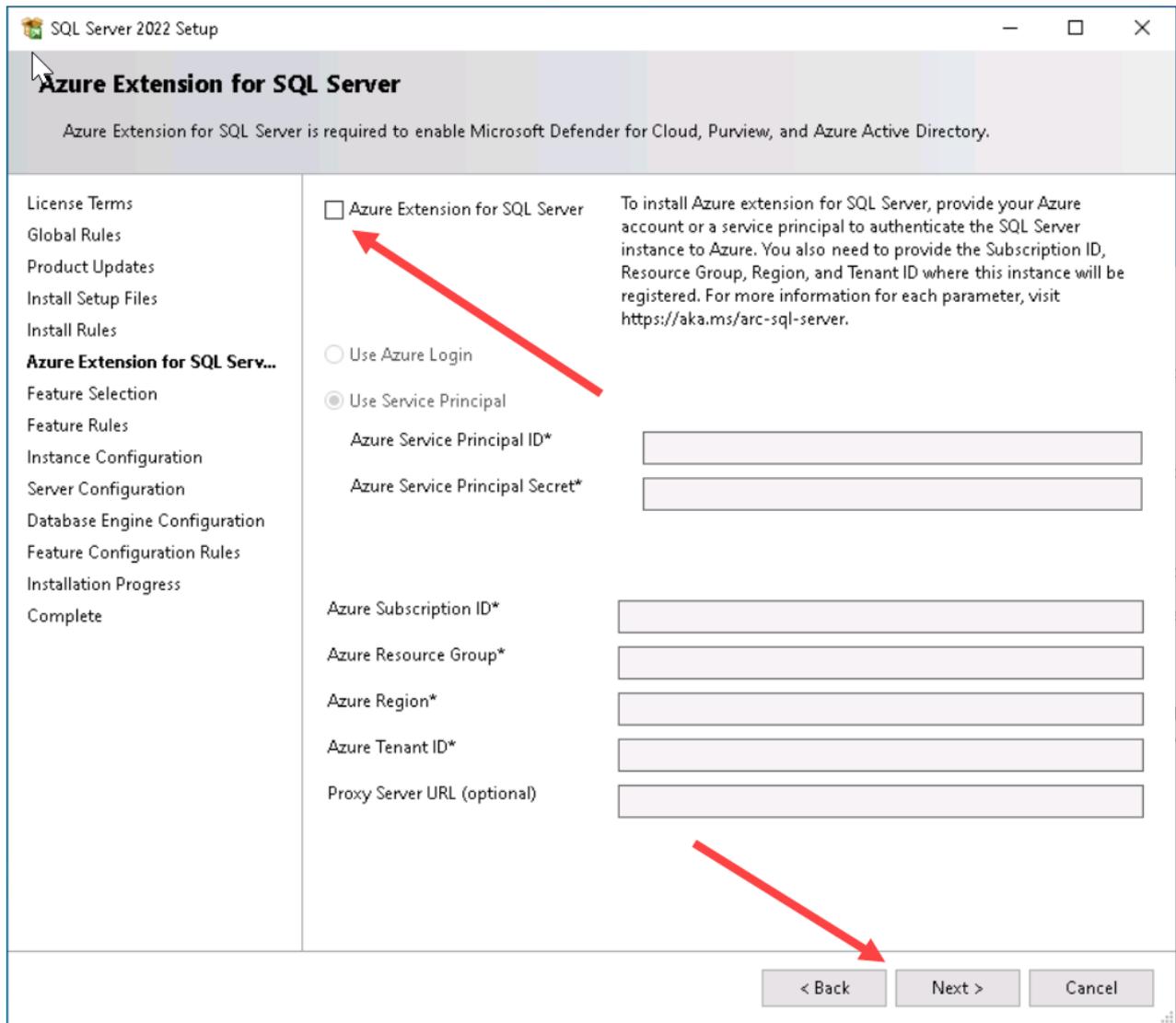


## Click Studios

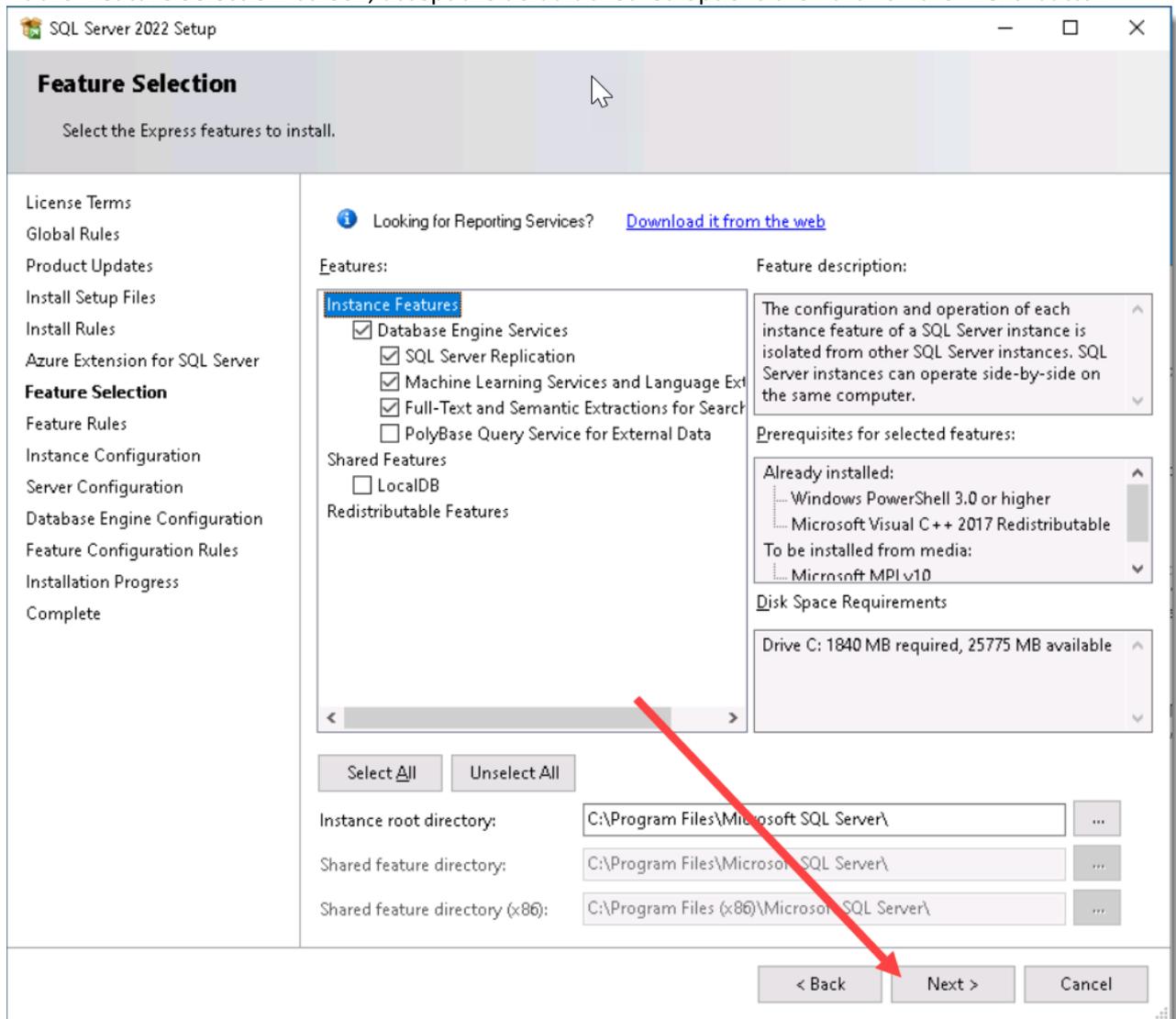
- Accept the terms of the licensing and click **Next**



- Deselect the **Azure Extension for SQL Server** option, and click the **'Next'** button



- At the 'Feature Selection' screen, accept the default checked options then click on the 'Next' button



## Click Studios

- At the 'Instance Configuration' screen, accept the default **SQLExpress** instance and click on the 'Next' button

SQL Server 2022 Setup

### Instance Configuration

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

License Terms  
Global Rules  
Product Updates  
Install Setup Files  
Install Rules  
Azure Extension for SQL Server  
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\MSSQL16.SQLEXPRESS

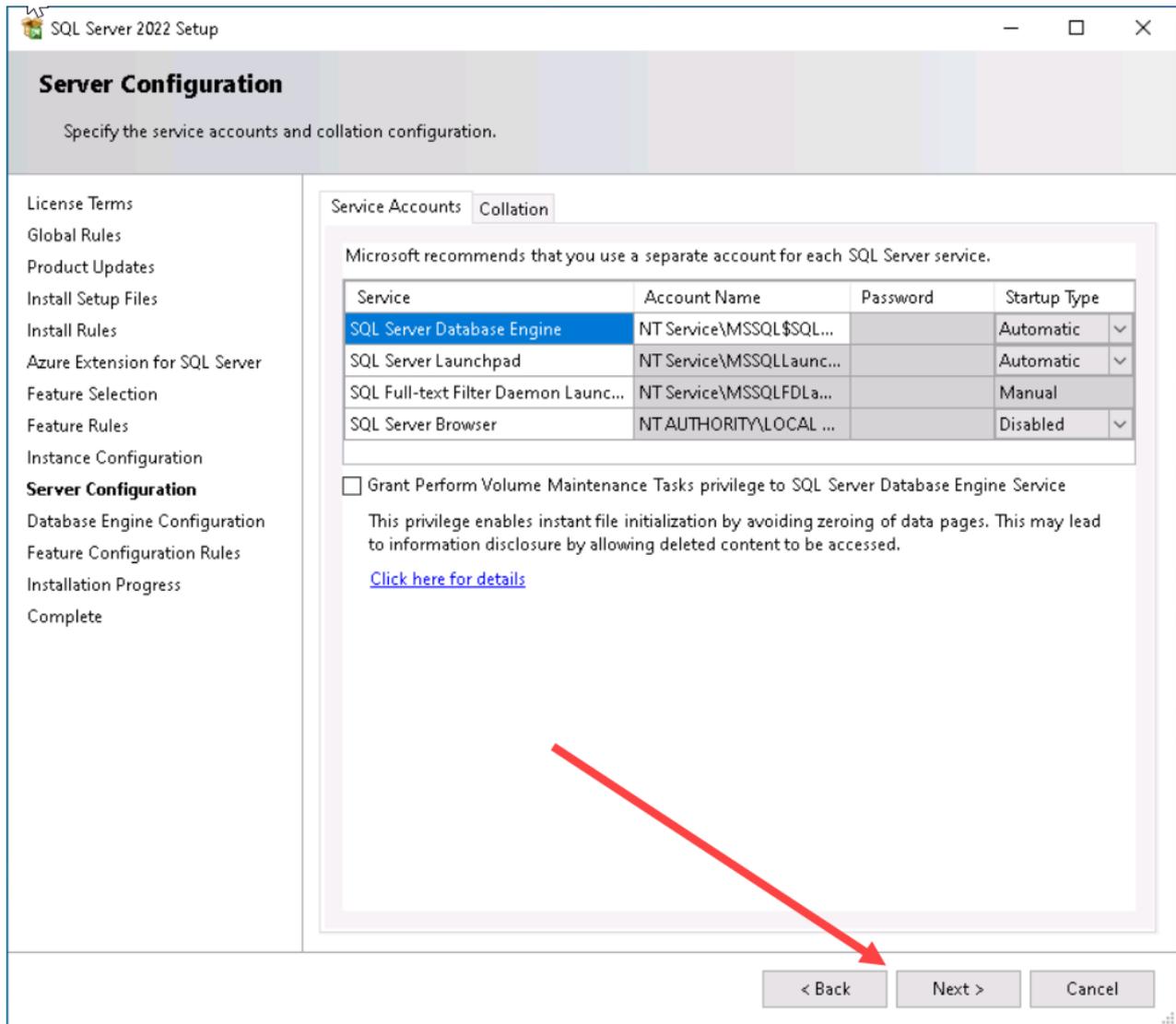
Installed instances:

Instance Name	Instance ID	Features	Edition	Version
---------------	-------------	----------	---------	---------

< Back   Next >   Cancel

## Click Studios

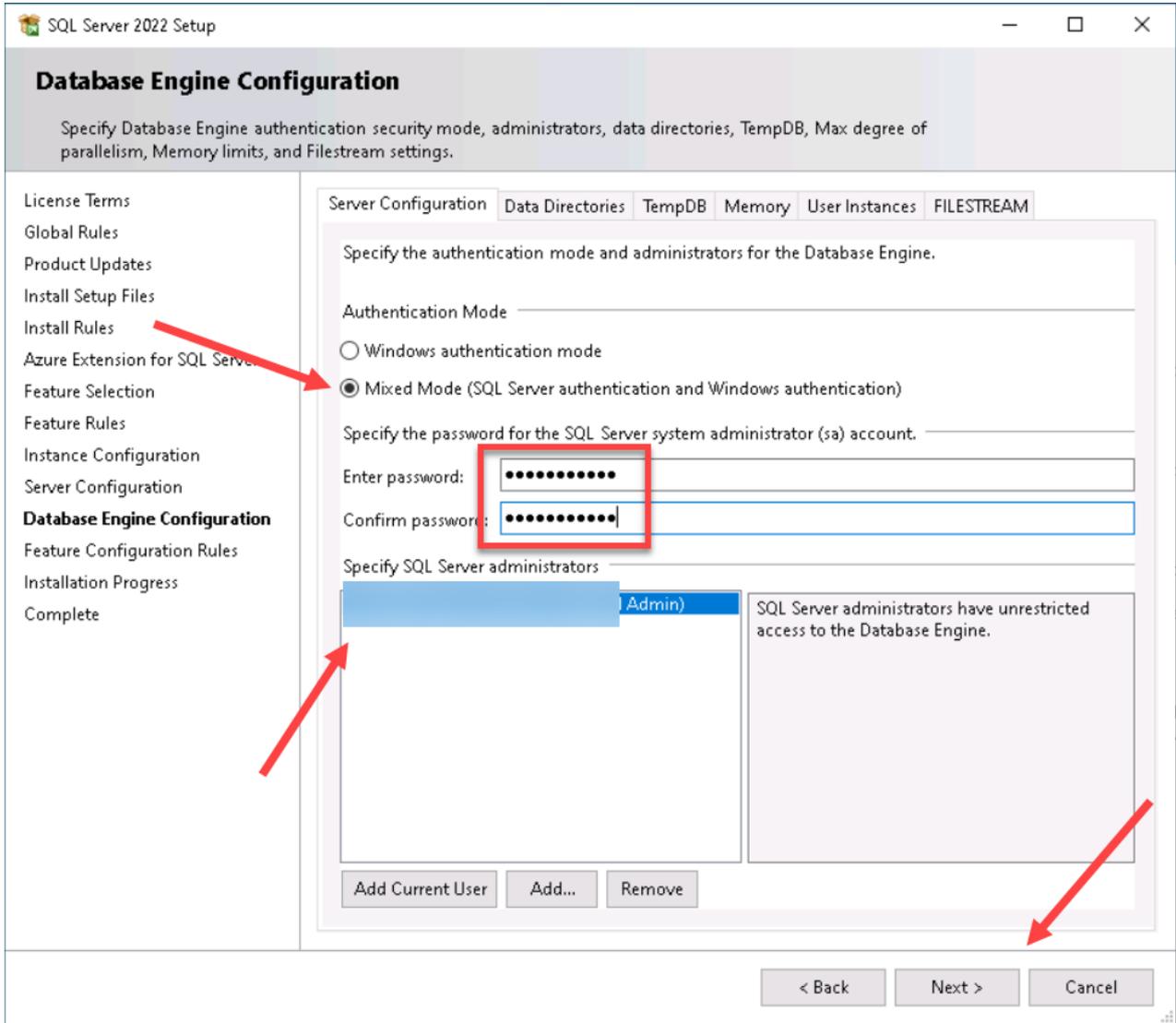
- At the 'Server Configuration' screen, accept the default settings and click on the 'Next' button



## Click Studios

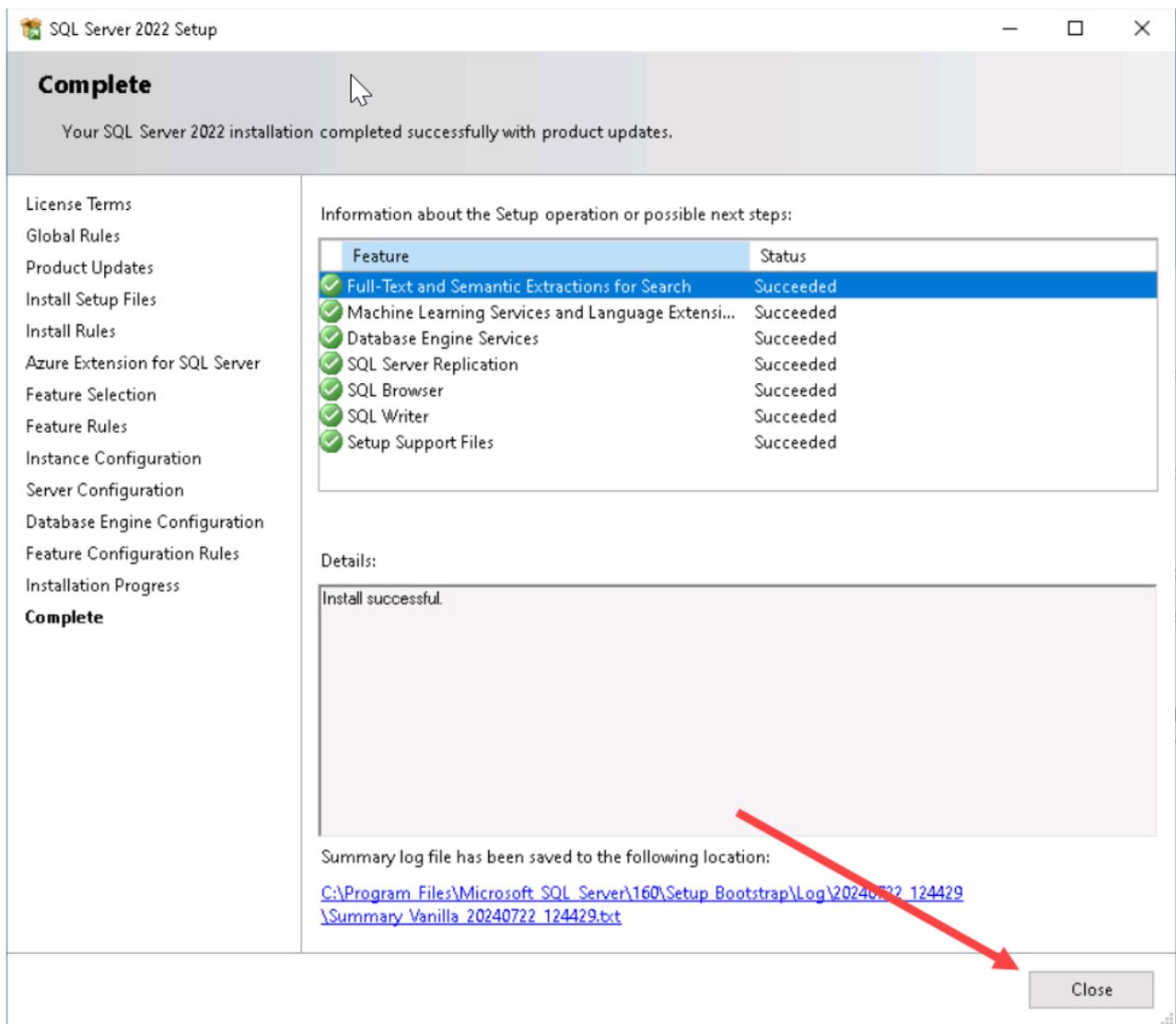
- At the 'Database Engine Configuration' screen, check 'Mixed Mode' authentication, specify a strong password for the 'sa' account. The 'Server Administrator' account is a local SQL account with full permissions to administer your databases and settings within SQL. Note this password down, and save it into Passwordstate when you can access it.

Your own Active Directory account will also be added in here with full permissions, and if desired you can add more Active Directory accounts on this screen. You should now click on the 'Next' button



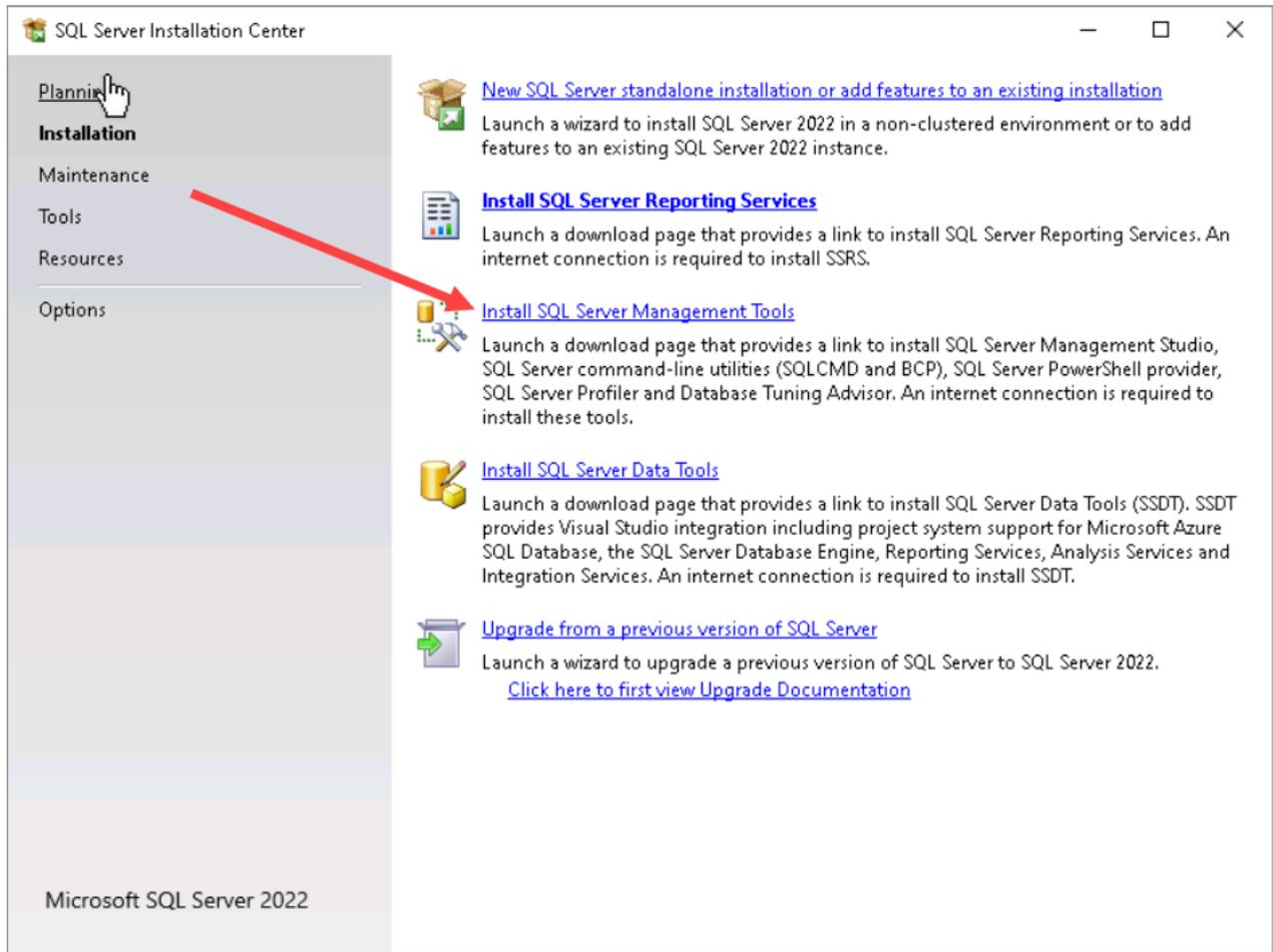
## Click Studios

- SQL Server Express will be installing and within a few minutes you'll be presented with the 'Complete' screen. You can **Close** to finish the install



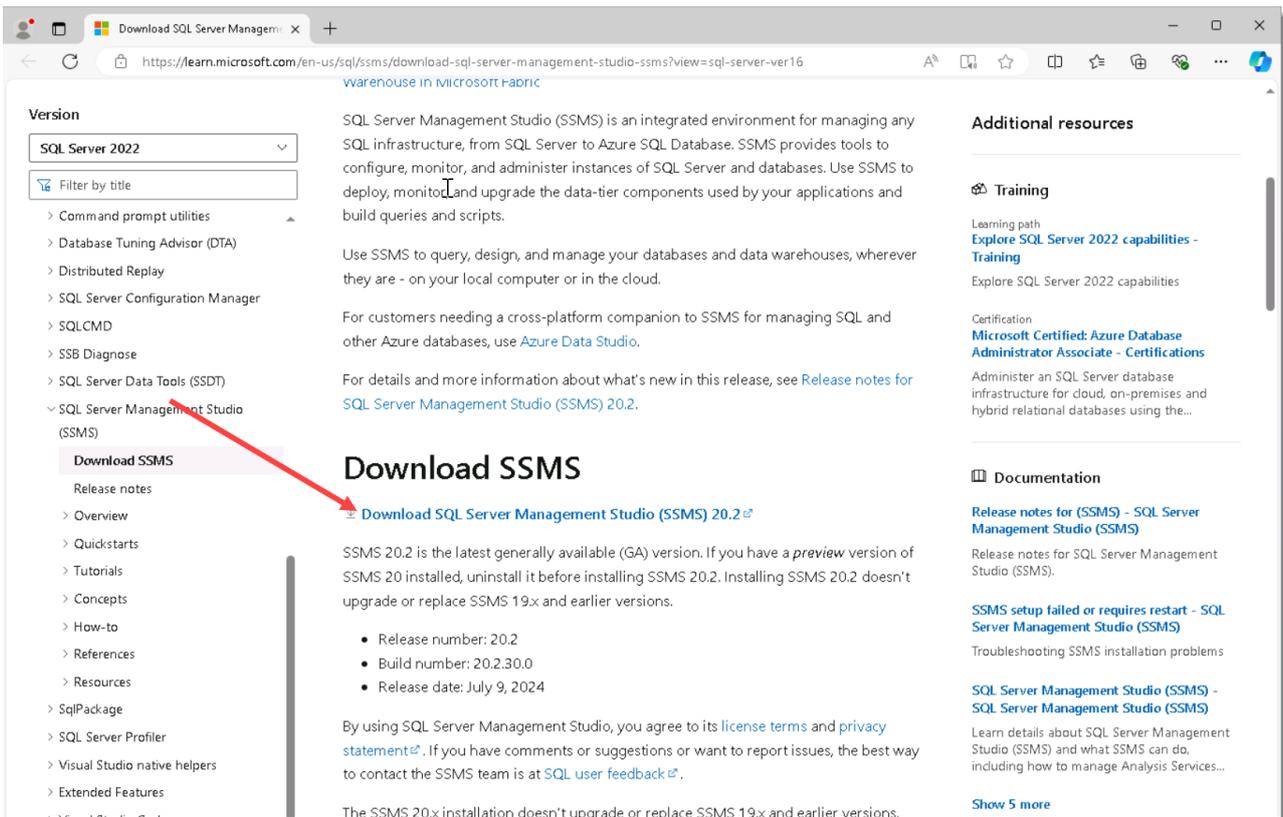
### Installing the SQL Server Management Tools

- On the Installation screen run the **Install SQL Server Management Studio Tools** (If you need to launch the installer again, you can run **setup.exe** from **C:\SQLServer2022\ExpressAdv\_ENU** (or wherever you specified to download the source files to earlier in this guide))



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- A web page will launch, and you'll need to click the following download link (Name may change slightly compared to the below screenshot) and run the **SSMS-Setup-ENU.exe** file that is downloaded



The screenshot shows a web browser window displaying the Microsoft Learn page for downloading SQL Server Management Studio (SSMS) 20.2. The browser's address bar shows the URL: <https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16>. The page title is "Download SQL Server Management Studio (SSMS) 20.2".

The left sidebar contains a navigation menu with the following items:

- Version
- SQL Server 2022
- Filter by title
- Command prompt utilities
- Database Tuning Advisor (DTA)
- Distributed Replay
- SQL Server Configuration Manager
- SQLCMD
- SSB Diagnose
- SQL Server Data Tools (SSDT)
- SQL Server Management Studio (SSMS)
  - Download SSMS**
  - Release notes
  - Overview
  - Quickstarts
  - Tutorials
  - Concepts
  - How-to
  - References
  - Resources
  - SqlPackage
  - SQL Server Profiler
  - Visual Studio native helpers
  - Extended Features

The main content area features a large heading "Download SSMS" and a sub-heading "Download SQL Server Management Studio (SSMS) 20.2". Below this, the text states: "SSMS 20.2 is the latest generally available (GA) version. If you have a *preview* version of SSMS 20 installed, uninstall it before installing SSMS 20.2. Installing SSMS 20.2 doesn't upgrade or replace SSMS 19.x and earlier versions."

A list of release details is provided:

- Release number: 20.2
- Build number: 20.2.30.0
- Release date: July 9, 2024

Below the list, it says: "By using SQL Server Management Studio, you agree to its [license terms](#) and [privacy statement](#). If you have comments or suggestions or want to report issues, the best way to contact the SSMS team is at [SQL user feedback](#)."

At the bottom of the main content area, it states: "The SSMS 20.x installation doesn't upgrade or replace SSMS 19.x and earlier versions."

The right sidebar contains "Additional resources" with sections for "Training" and "Documentation".

The "Training" section includes:

- Learning path: [Explore SQL Server 2022 capabilities - Training](#)
- Explore SQL Server 2022 capabilities
- Certification: [Microsoft Certified: Azure Database Administrator Associate - Certifications](#)
- Administer an SQL Server database infrastructure for cloud, on-premises and hybrid relational databases using the...

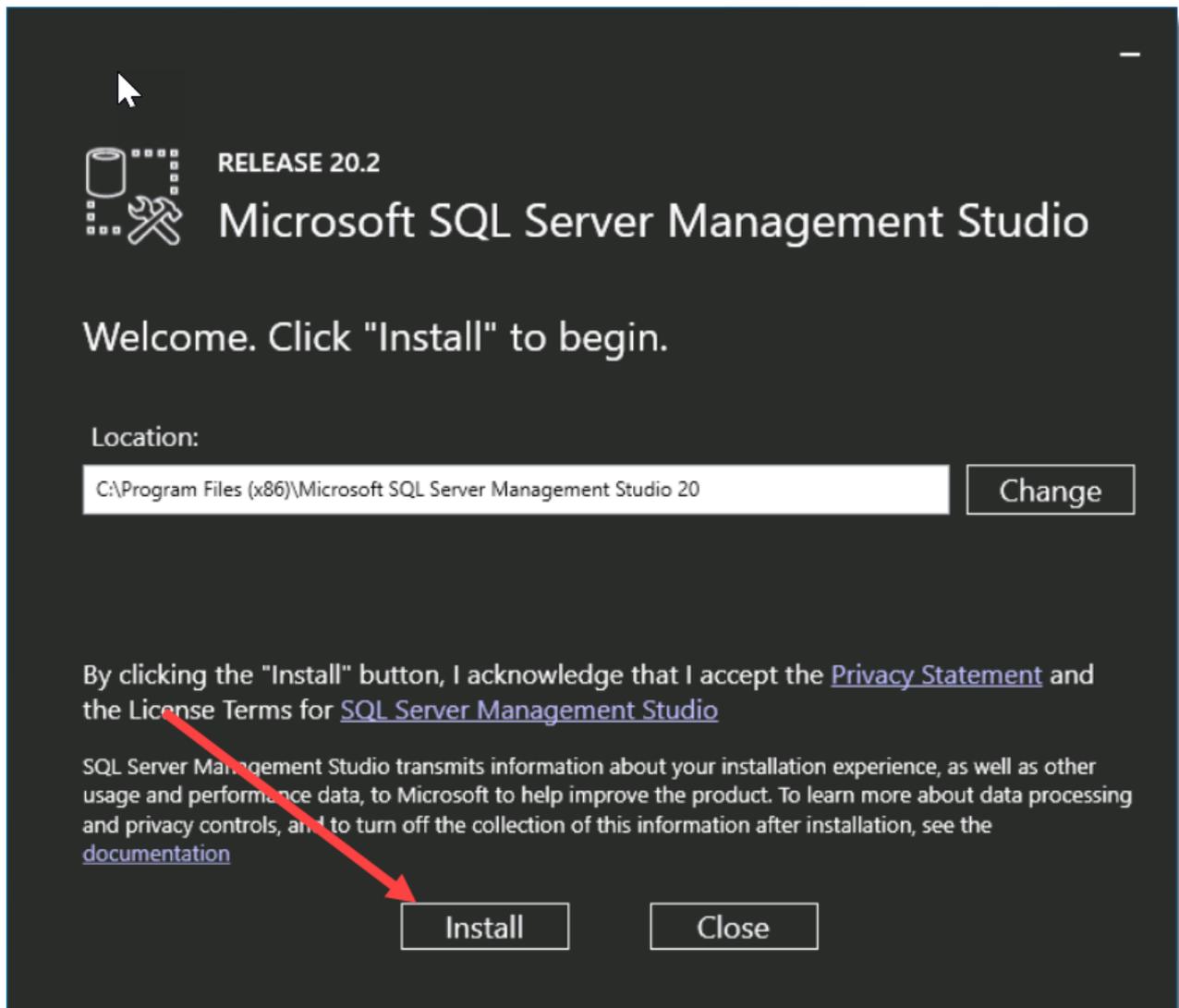
The "Documentation" section includes:

- [Release notes for \(SSMS\) - SQL Server Management Studio \(SSMS\)](#)
- Release notes for SQL Server Management Studio (SSMS).
- [SSMS setup failed or requires restart - SQL Server Management Studio \(SSMS\)](#)
- Troubleshooting SSMS installation problems
- [SQL Server Management Studio \(SSMS\) - SQL Server Management Studio \(SSMS\)](#)
- Learn details about SQL Server Management Studio (SSMS) and what SSMS can do, including how to manage Analysis Services...
- [Show 5 more](#)

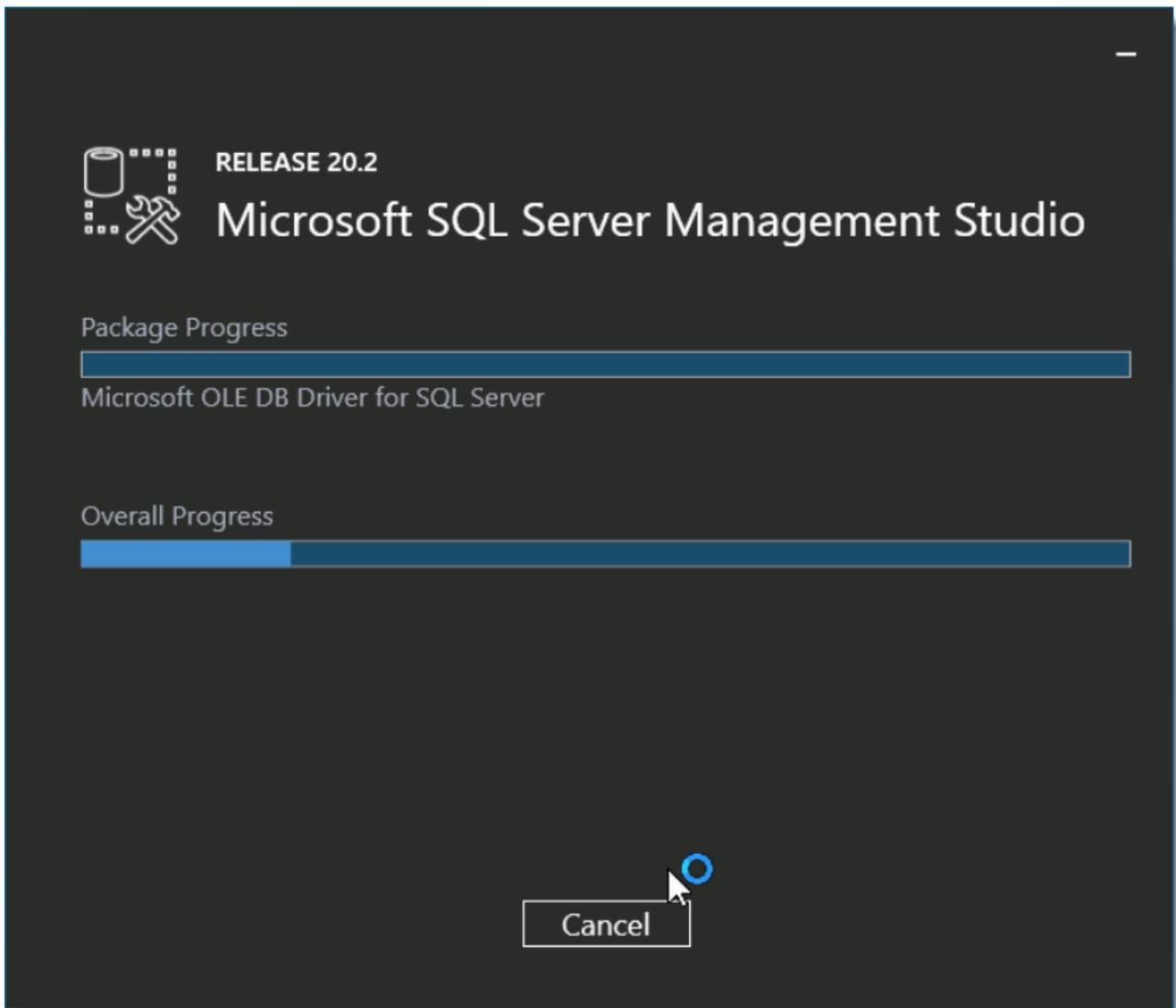
## Click Studios

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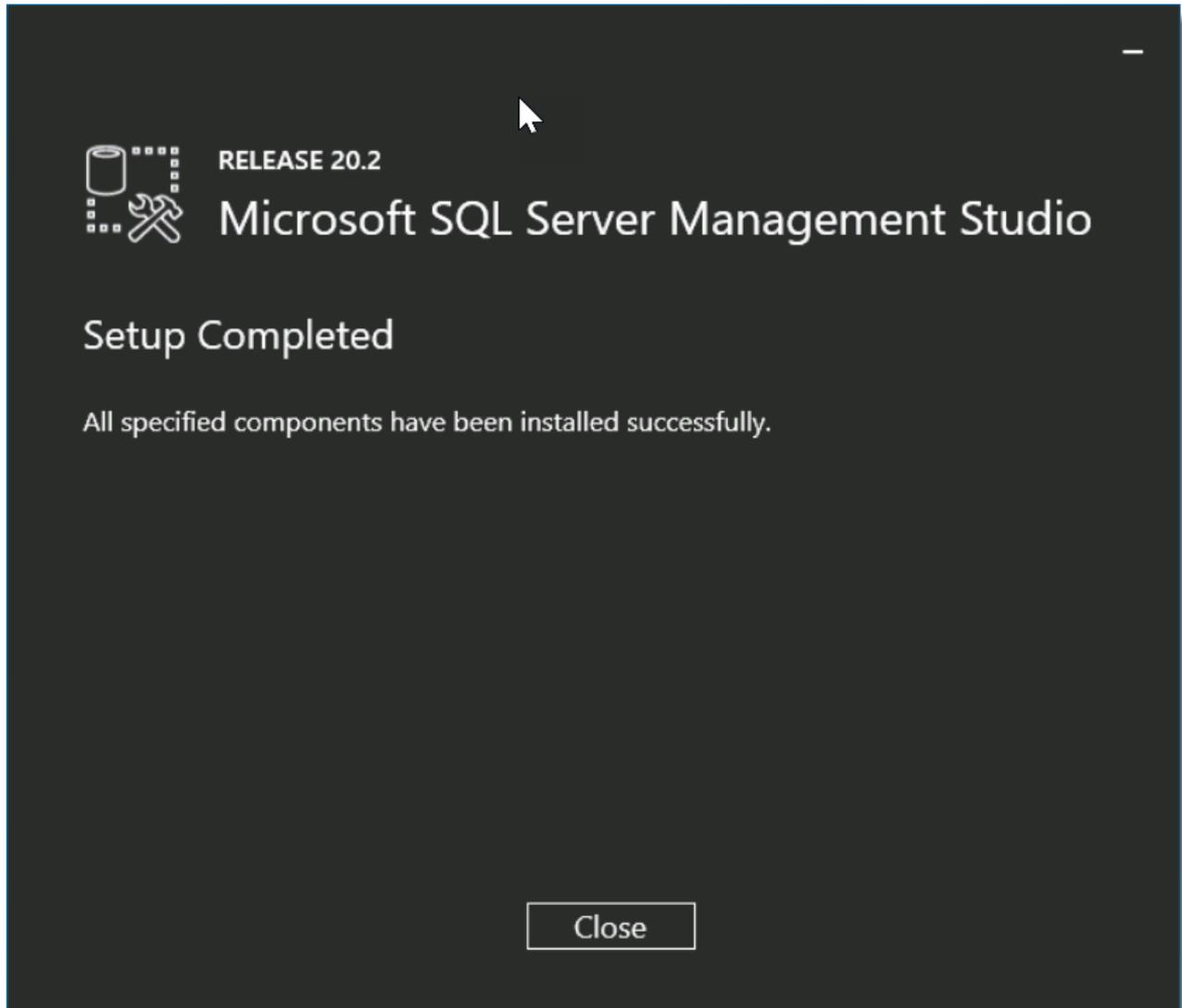
- Click the **Install** button



- The SQL Management Studio Tools will now begin installing



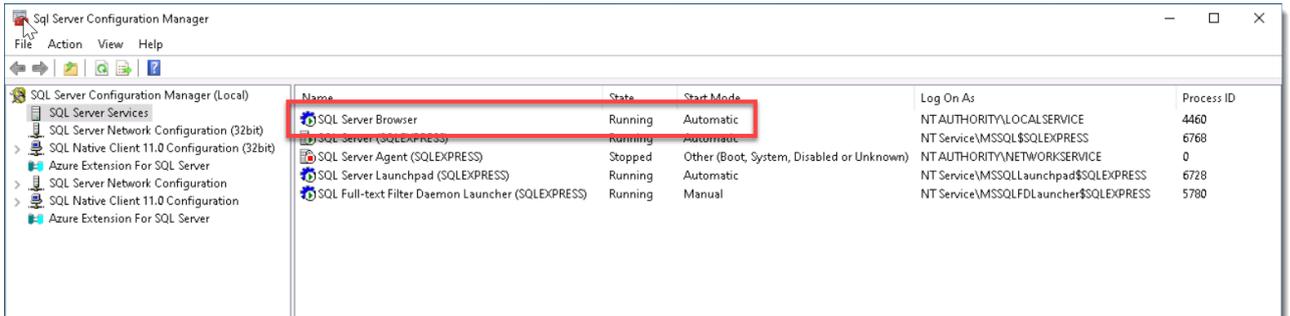
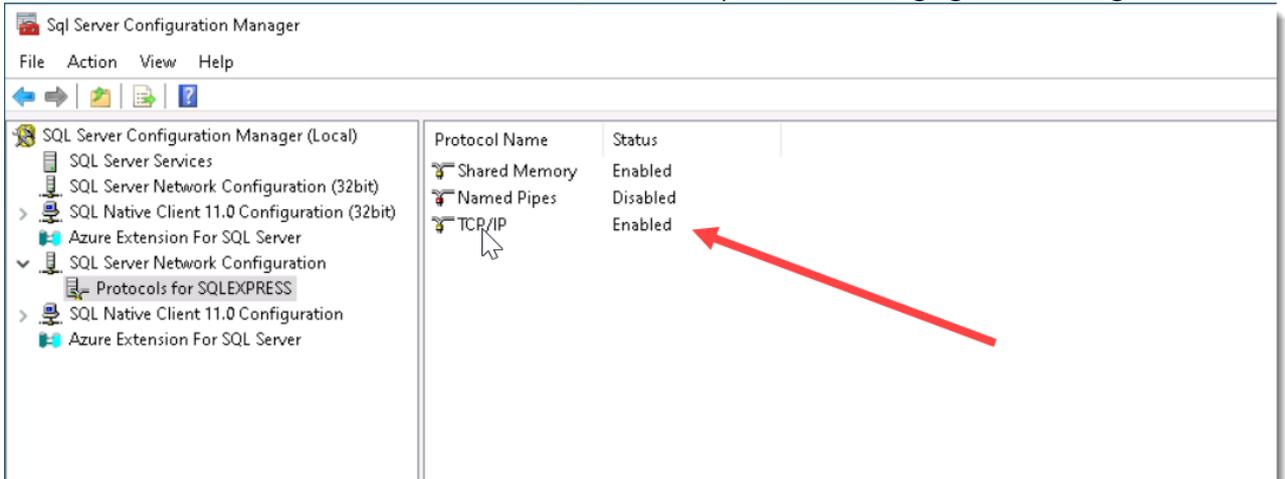
- Click **Restart** to finish the install if required, otherwise the installation is complete



## 2 SQL Server Express Considerations

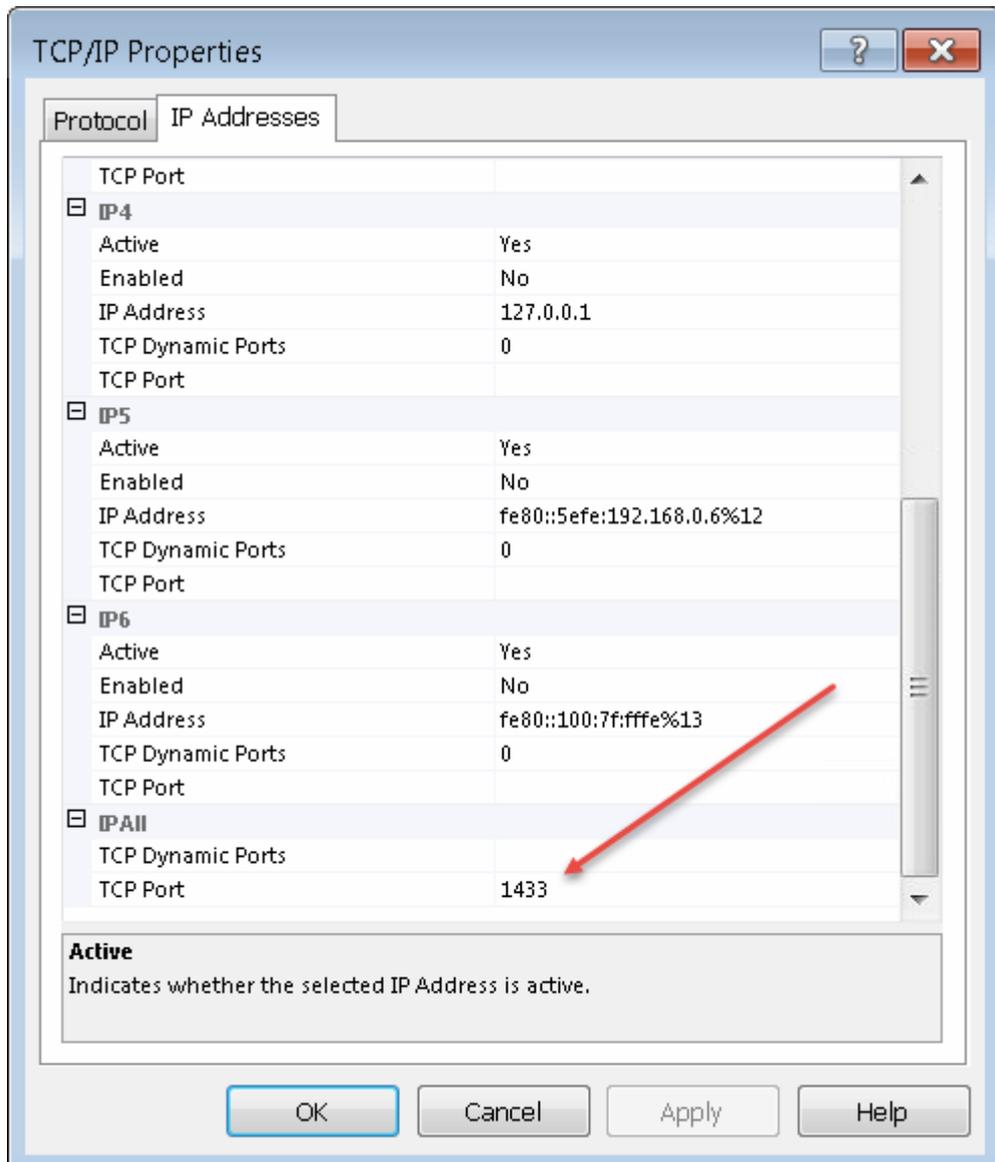
If you intend to use SQL Server Express to host your Passwordstate database, please consider the following before installing Passwordstate:

1. If you're using SQL Server Express on a different server to where you installed Passwordstate, please ensure the TCP/IP Protocol is enabled (use **SQL Server Configuration Manager -> SQL Server Network Configuration**), and also the Windows Service 'SQL Server Browser' is set to '**Automatic**' Startup Type and has been started. You will need to restart SQL Server Express after changing these settings



2. By default, SQL Server Express installs with an 'instance' name of **SQLExpress**. When you're configuring Passwordstate for first time use, under the '**Database Settings**' page, please ensure you have specified the name of the instance correctly i.e. **HostName\SQLExpress**
3. If you intend to also install the High Availability instance of Passwordstate, SQL Server Express can only be used as the Subscriber for data replication, not the Publisher or Distribution database.

4. By default, SQL Express configures the TCP/IP Protocol to communicate on a dynamic port. If you have a firewall enabled on your database server, you may need to set a static port in the TCP/IP properties which will match your firewall rule. Restart the service again after configuring the option in the screenshot below:



### 3 SQL Server Memory Size Management

By default, SQL Server is configured to consume all available memory. If you have SQL Server installed on the same machine as where Passwordstate is installed, it's recommended you cap the amount of memory SQL Server uses, as we generally recommend keeping up to 2GB of memory free at all times.

Below is a screenshot of the 'Properties' of your SQL Server, where you can modify the memory settings. The SQL Server Windows Services should be restarted after making any changes here.

