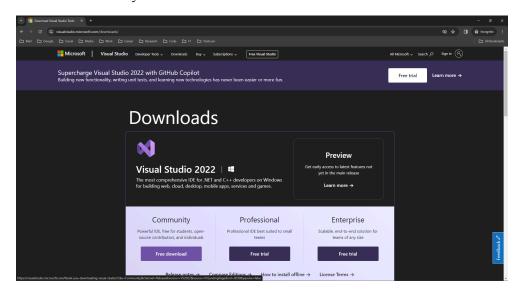
# **ASP.NET Installation Guide**

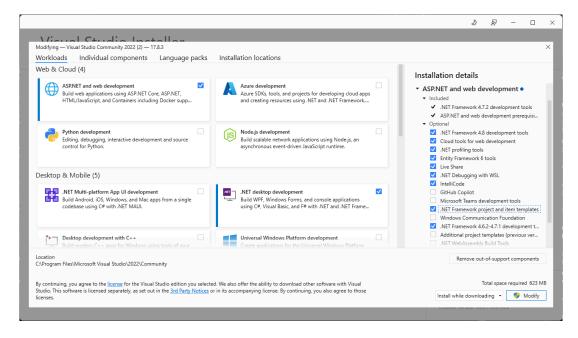
# Step 1: Download Visual Studio

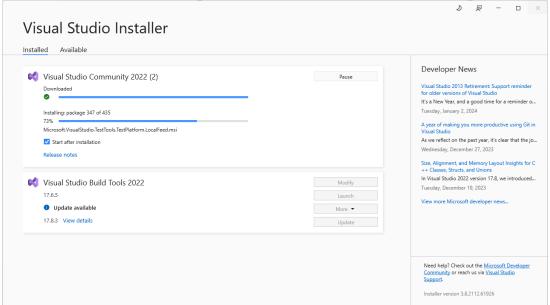
- 1. Go to the official website: <a href="https://visualstudio.microsoft.com/downloads/">https://visualstudio.microsoft.com/downloads/</a>
- 2. Download the community edition.



# Step 2: Install Visual Studio

- 1. Run the installer that you downloaded.
- 2. Select "ASP.NET and web development" (Make sure to select .NET Framework project and item templates) and ".NET desktop development" and install. Installation might take a while.

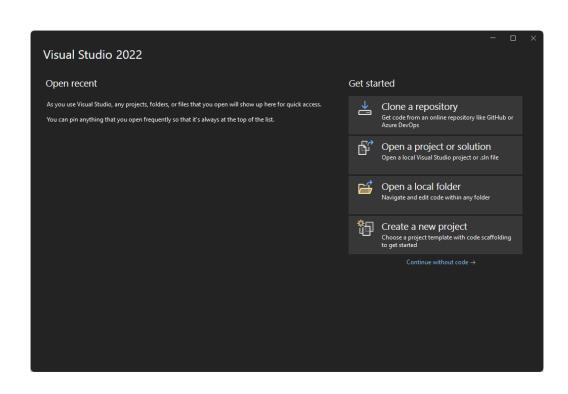




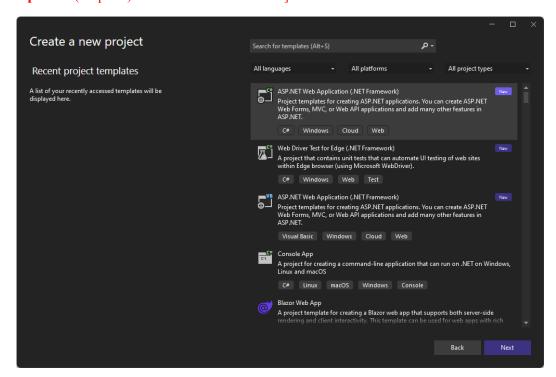
3. Update Visual Studio Build Tools if necessary.

### Step 3: Run a Test Project

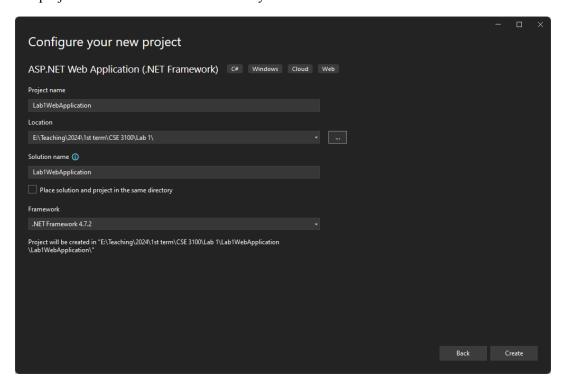
1. Open Visual Studio. Sign into your Microsoft account if you want to.



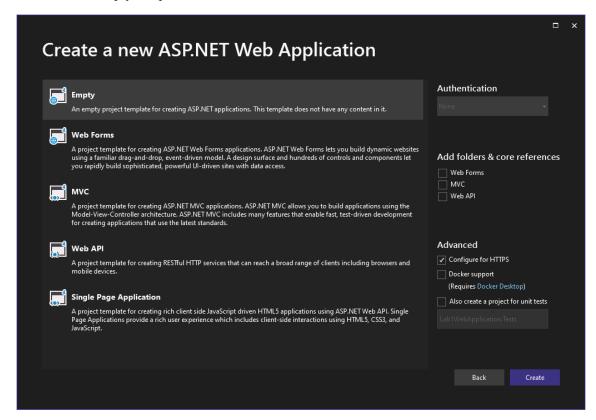
2. Click 'Create a new project". Search for "ASP.NET Web Application". [N.B. If you can't find the template then scroll down and click "Not finding what you are looking for" which will redirect you to "Visual Studio Installer". Here select "ASP.NET and web development" again and under the optional you will find ".NET Framework project and item templates" (Step 2.2). Make sure to install this.]



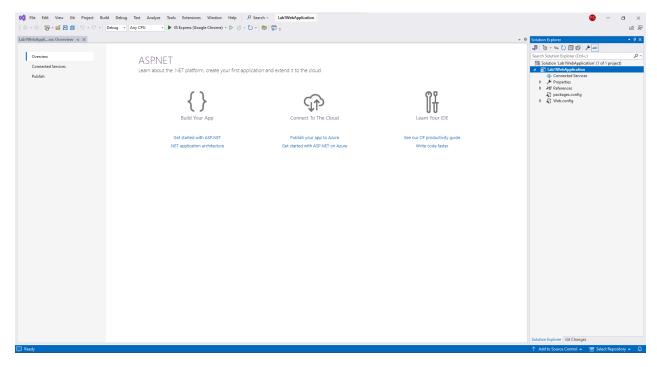
3. Give project a name and select the directory. And click "Create".



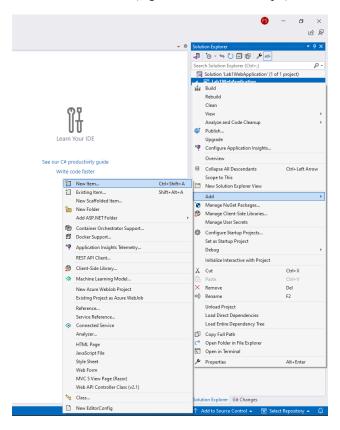
4. Select an Empty template for now.

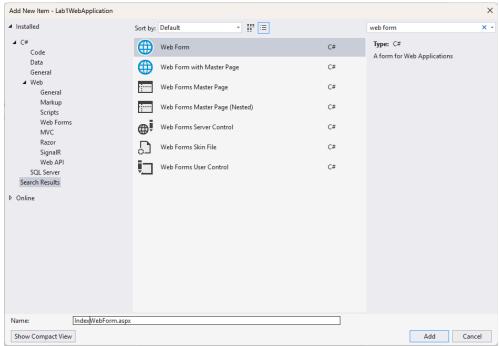


5. This Visual Studio window will pop up.

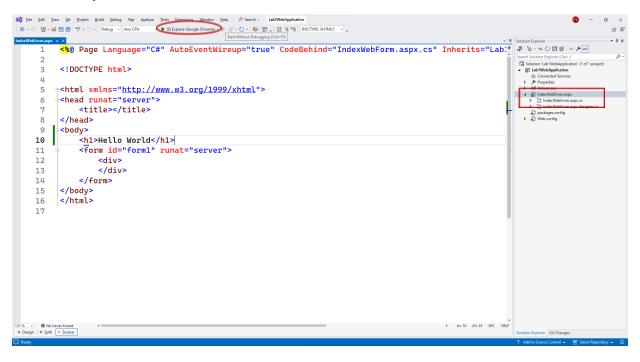


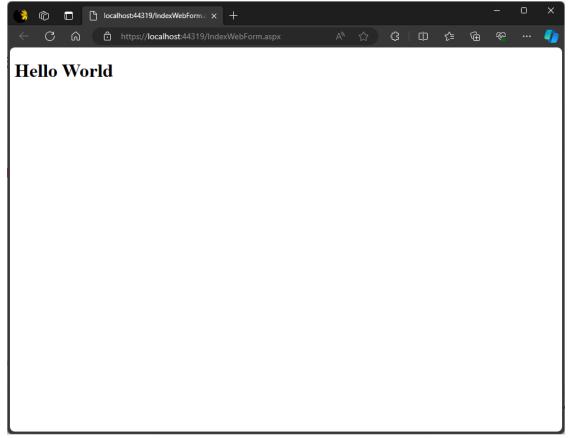
6. Right click on project name (e.g. Lab1WebApplication). Select "Add" > "New item". Then search for "Web Form" and rename it. (e.g. IndexWebForm.aspx). Click on "Add".





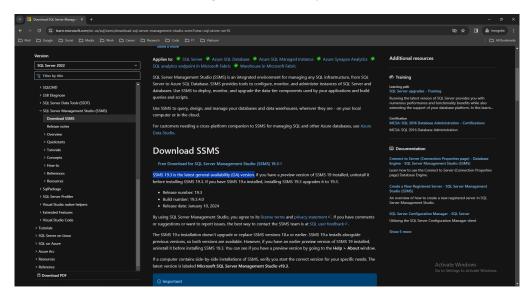
7. Modify the code and run.



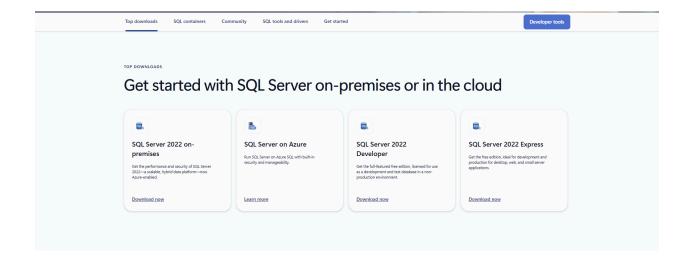


# Step 4: Download Microsoft SQL Server Management Studio

- Go to the official Microsoft SSMS website: <a href="https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=s">https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=s</a> ql-server-ver16
- 2. Download SSMS 19.3 or the latest general availability version.



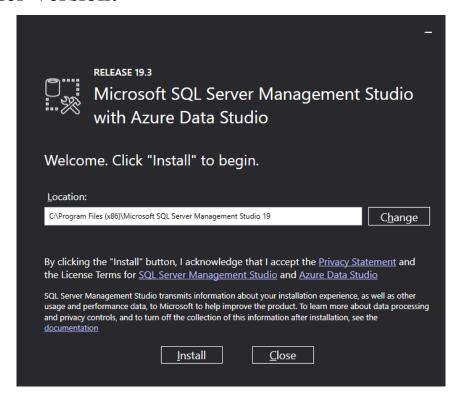
- 3. Go to Microsoft SQL Server official website: https://www.microsoft.com/en-us/sql-server/sql-server-downloads
- 4. Download the **SQL Server 2022 Express** edition.

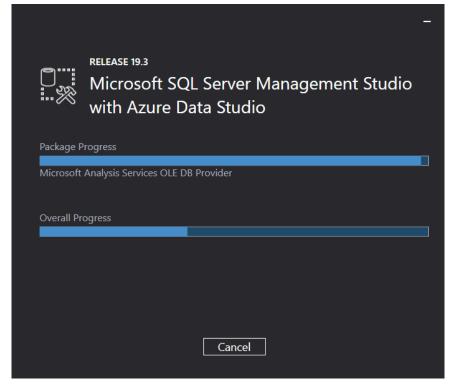


### Step 5: Install SSMS

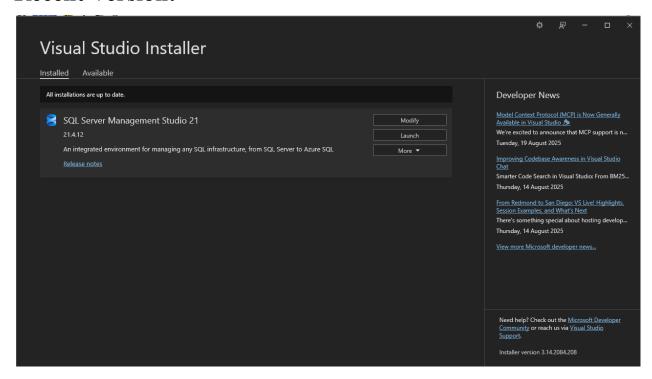
Open the SSMS downloaded file and follow the installation process.

#### **Older Version:**



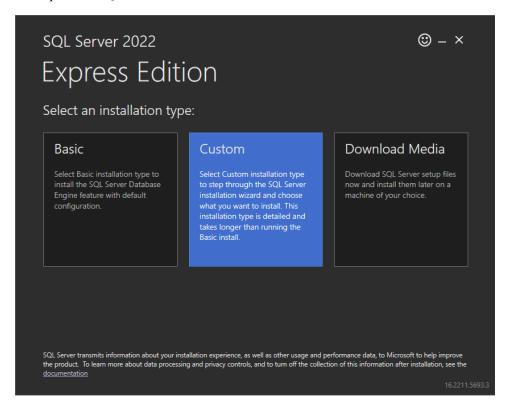


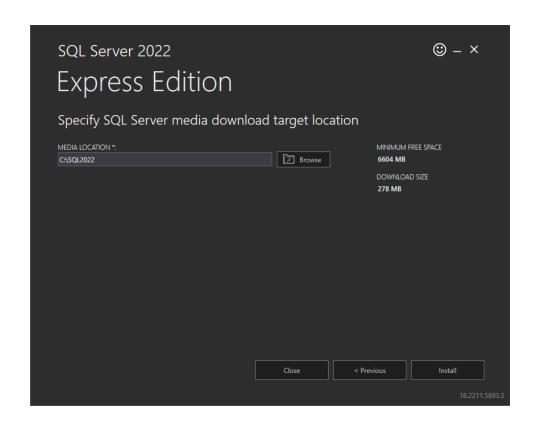
#### **Recent Version:**

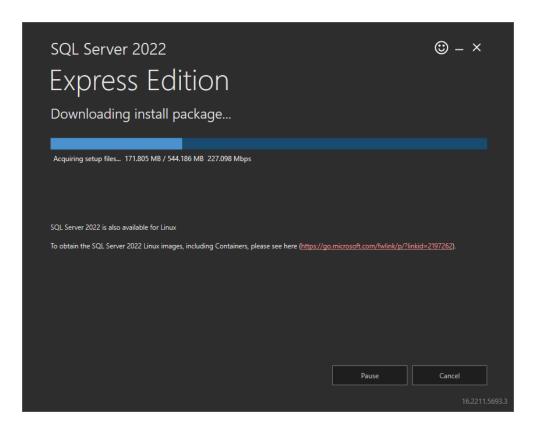


# Step 6: SQL Server

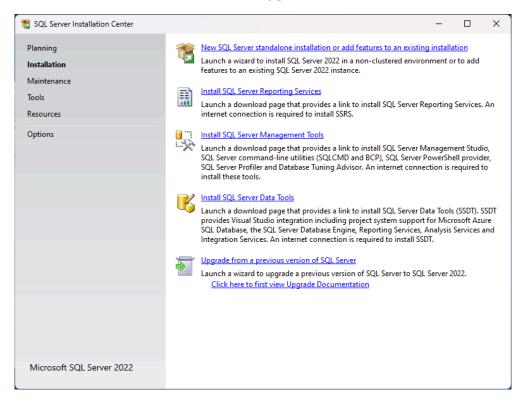
a. Open the SQL Server downloaded file. Select the **Custom** installation.

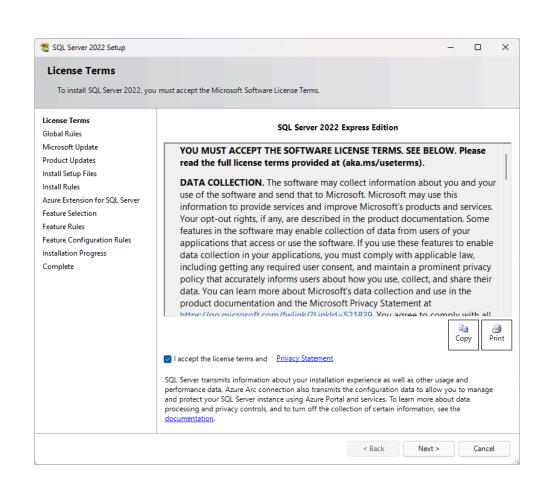




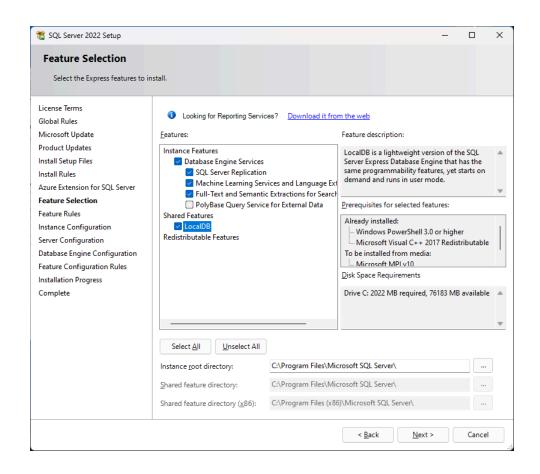


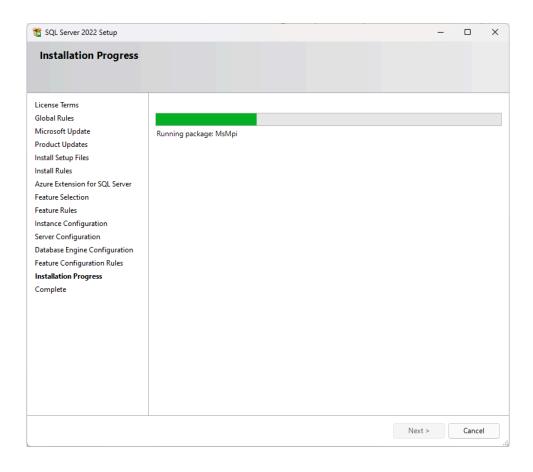
b. Select New SQL Server standalone installation or add features to an existing installation. And follow the following process.

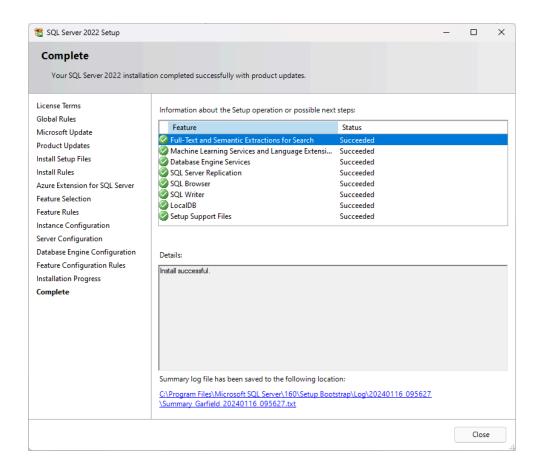




install Azure extension for SQL Server, provide your Azure count or a service principal to authenticate the SQL Server stance to Azure. You also need to provide the Subscription ID, source Group, Region, and Tenant ID where this instance will be jistered. For more information for each parameter, visit tps://aka.ms/arc-sql-server.
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TIONID input.





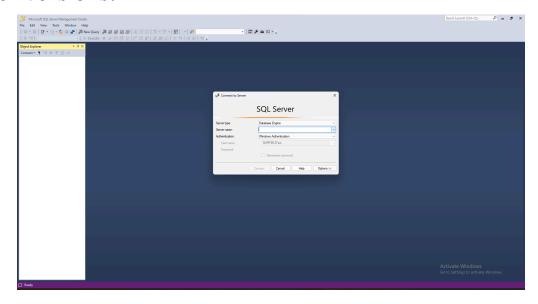


Search for SQL Server Management Studio and open the installed app.

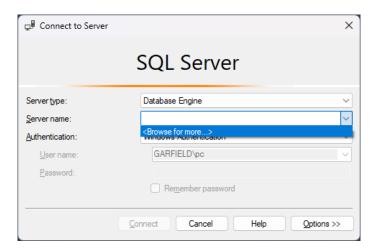


# Step 7: Connect To MSSQL Server

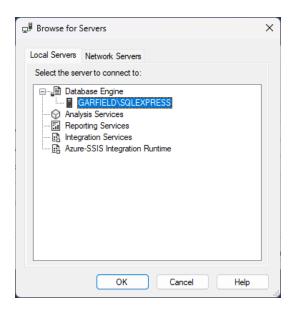
# **Older versions:**



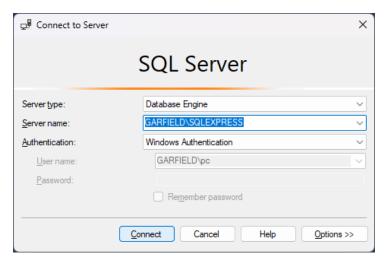
Select < Browse for more...>



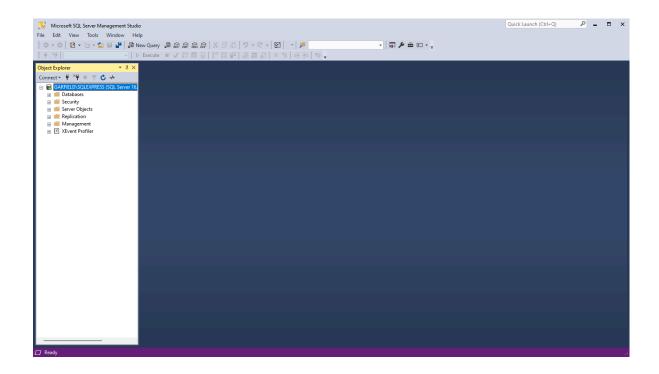
From the **Database Engine**, select your database and press ok.



Now you will be seeing your Server name. Press "Connect".



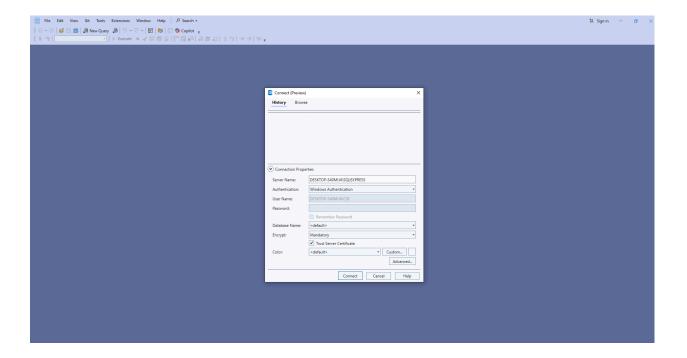
And you will be connected to your MSSQL server.

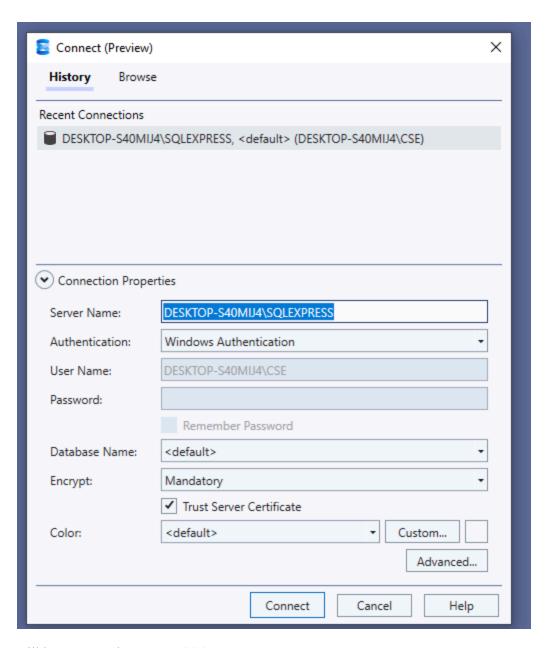


### **Recent Version:**

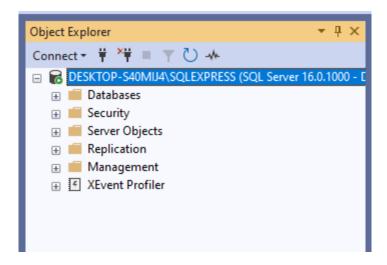
Search for SQL Server Management Studio and open the installed app.

Now, we need to enter server name. Here we will follow the naming pattern "Machine-Name\SQLEXPRESS", tick the box for "Trust Server Certificate" and press "Connect".

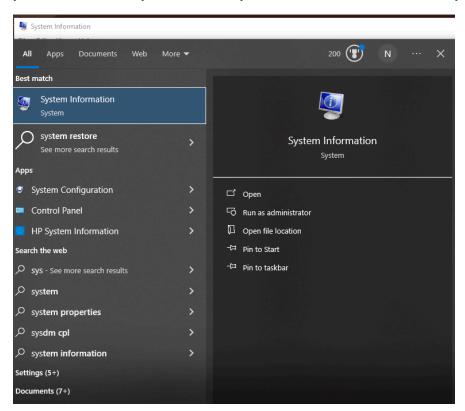


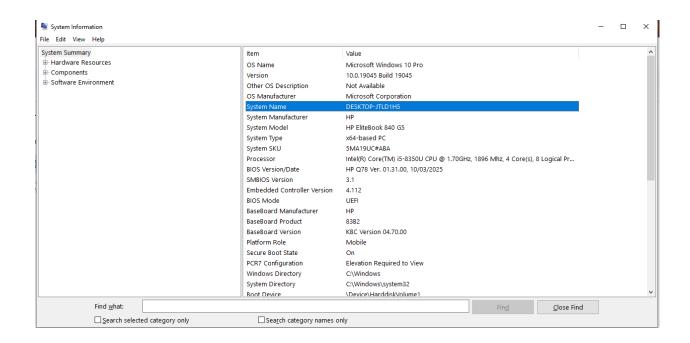


And you will be connected to your MSSQL server.



To know your system/machine name you can search System Information and look for the system name.





We will be using Microsoft SSMS for future backend related database implementations in the upcoming laboratories.