ASP.NET Installation Guide

Step 1: Download Visual Studio
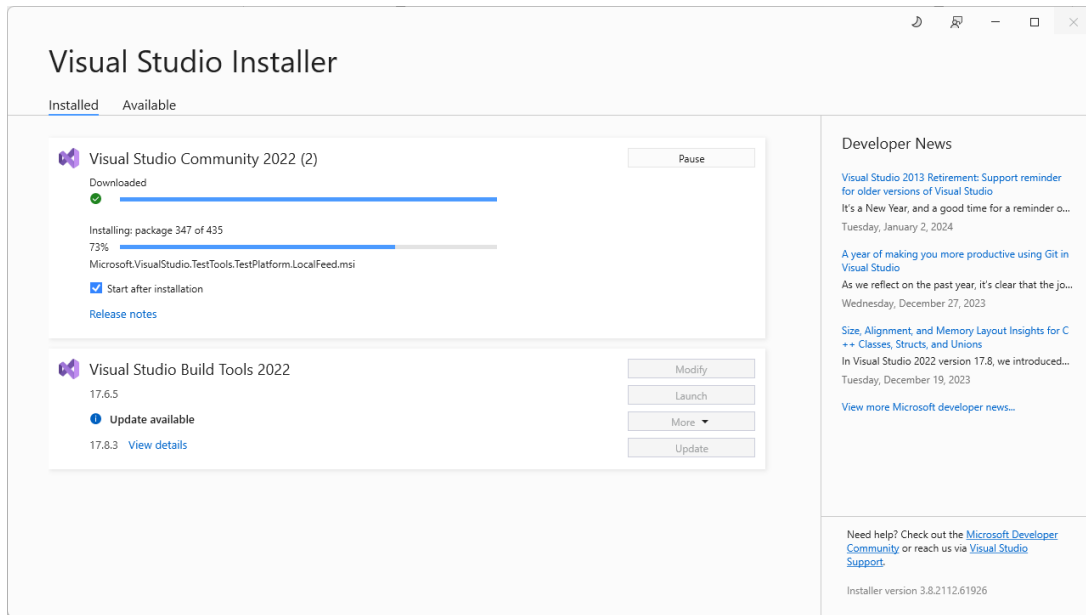
1. Go to the official website: https://visualstudio.microsoft.com/downloads/
2. Download the community edition.
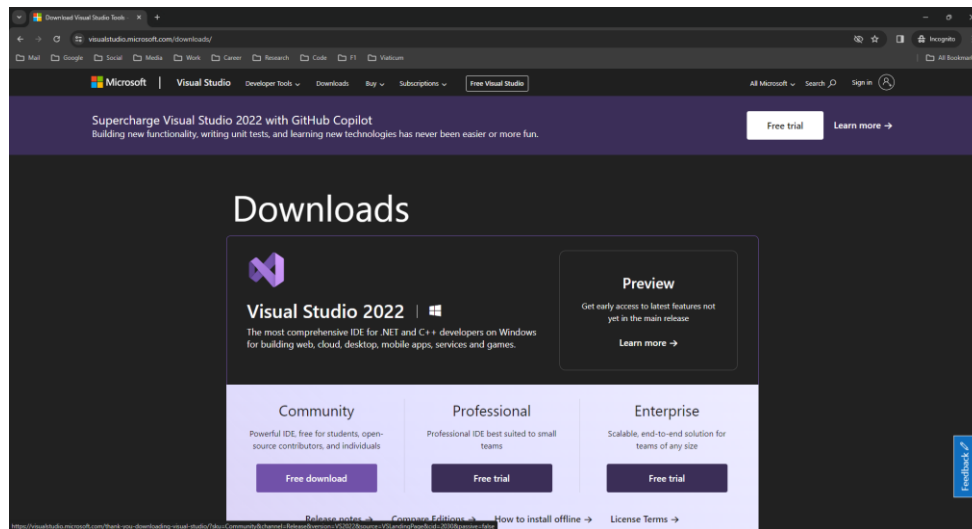
Step 2: Install Visual Studio

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.
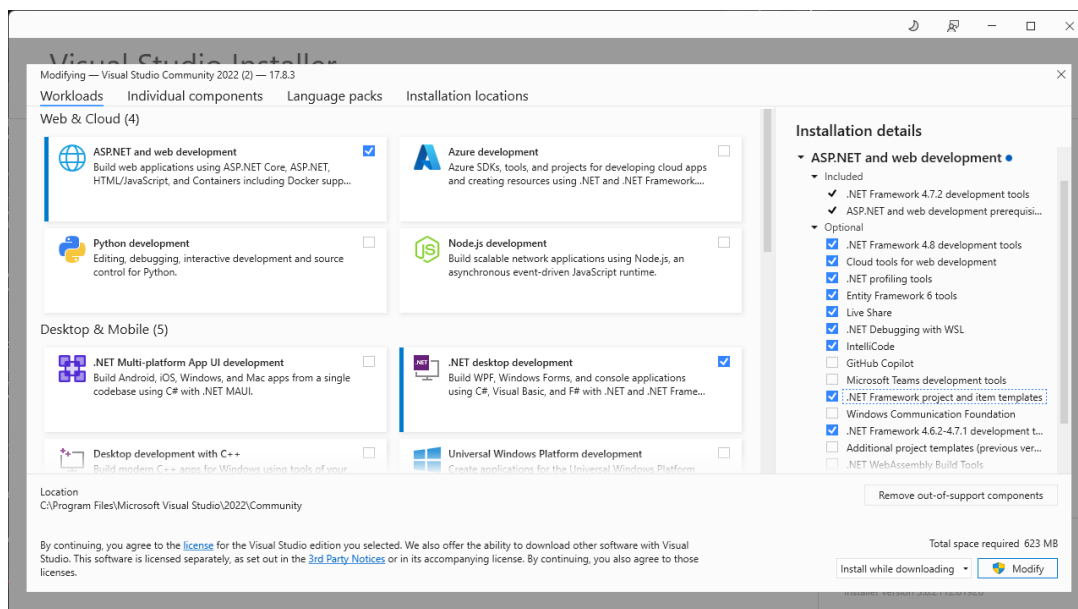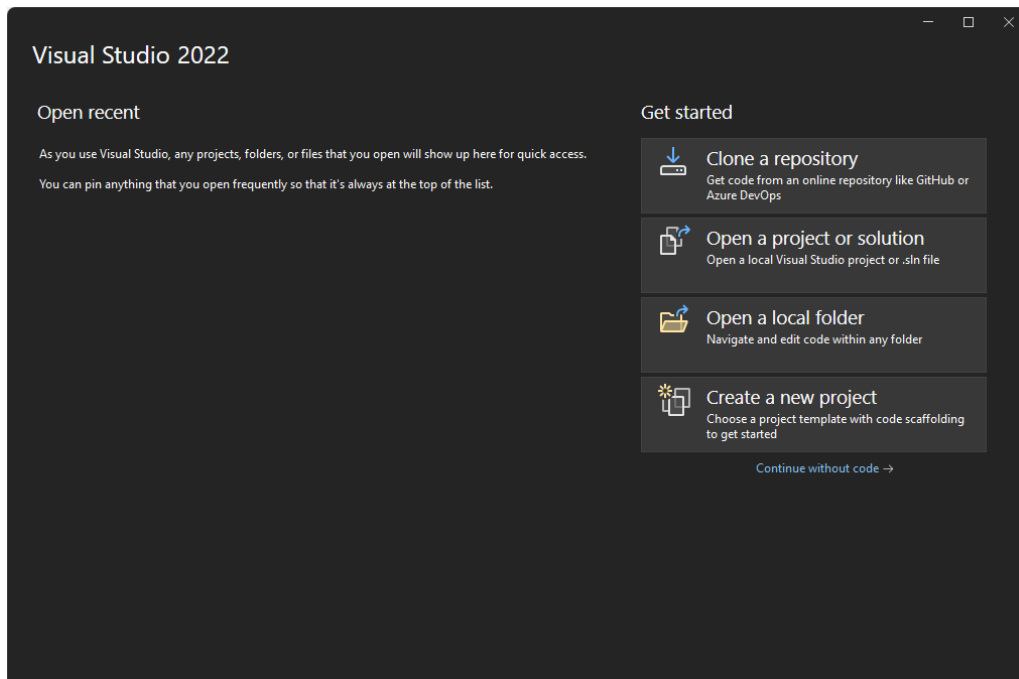
3. Update Visual Studio Build Tools if necessary.

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.]
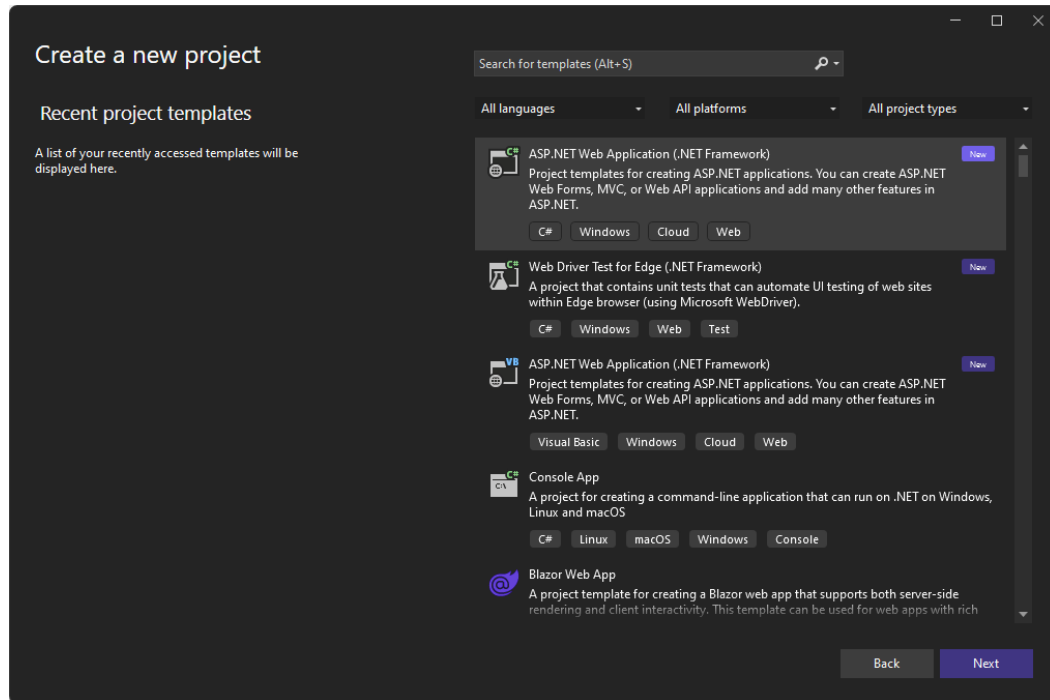
3. Give project a name and select the directory. And click "Create".
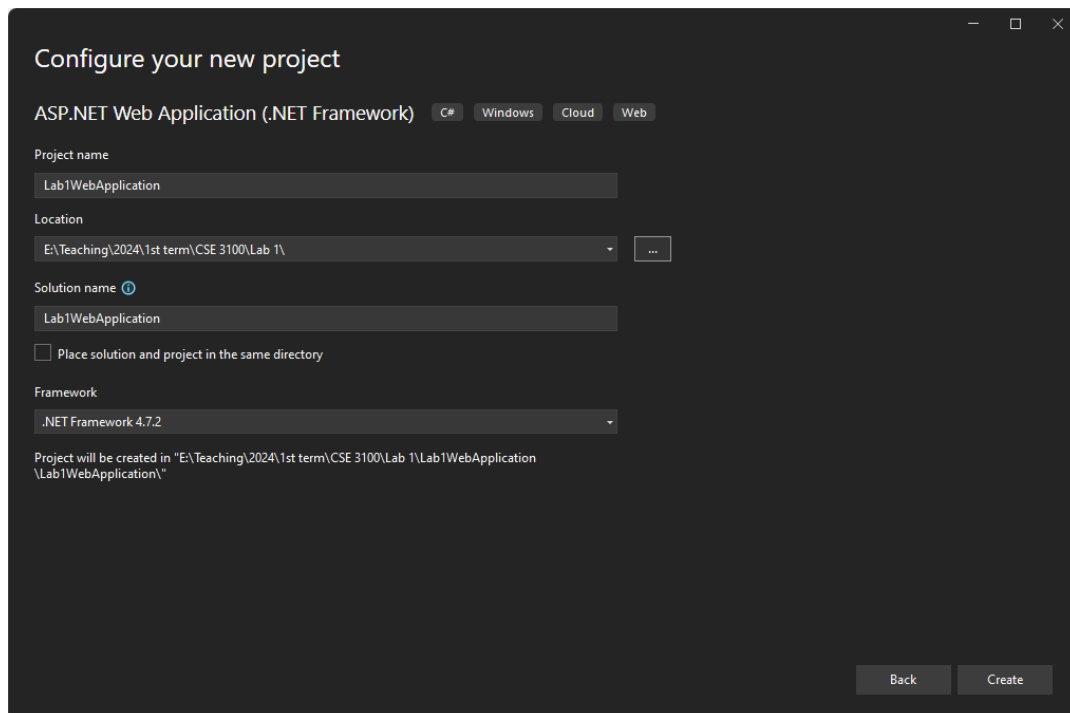
4. Select an Empty template for now.
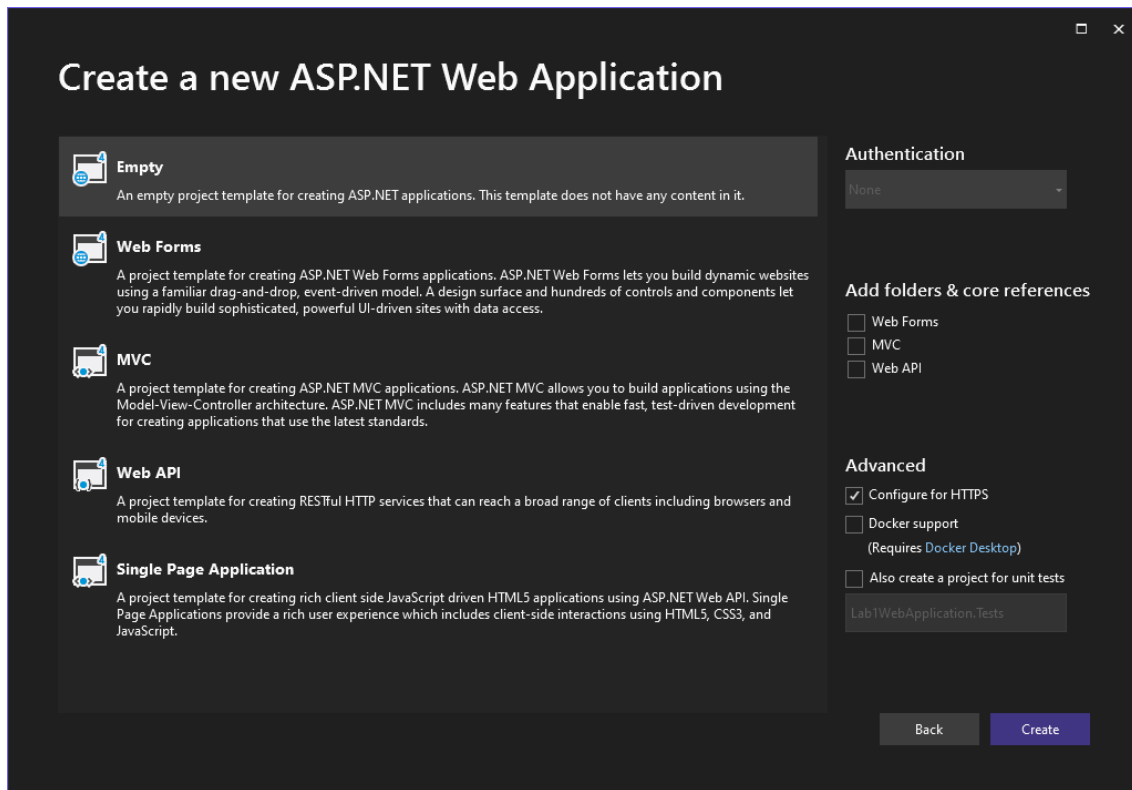
5. This Visual Studio window will pop up.
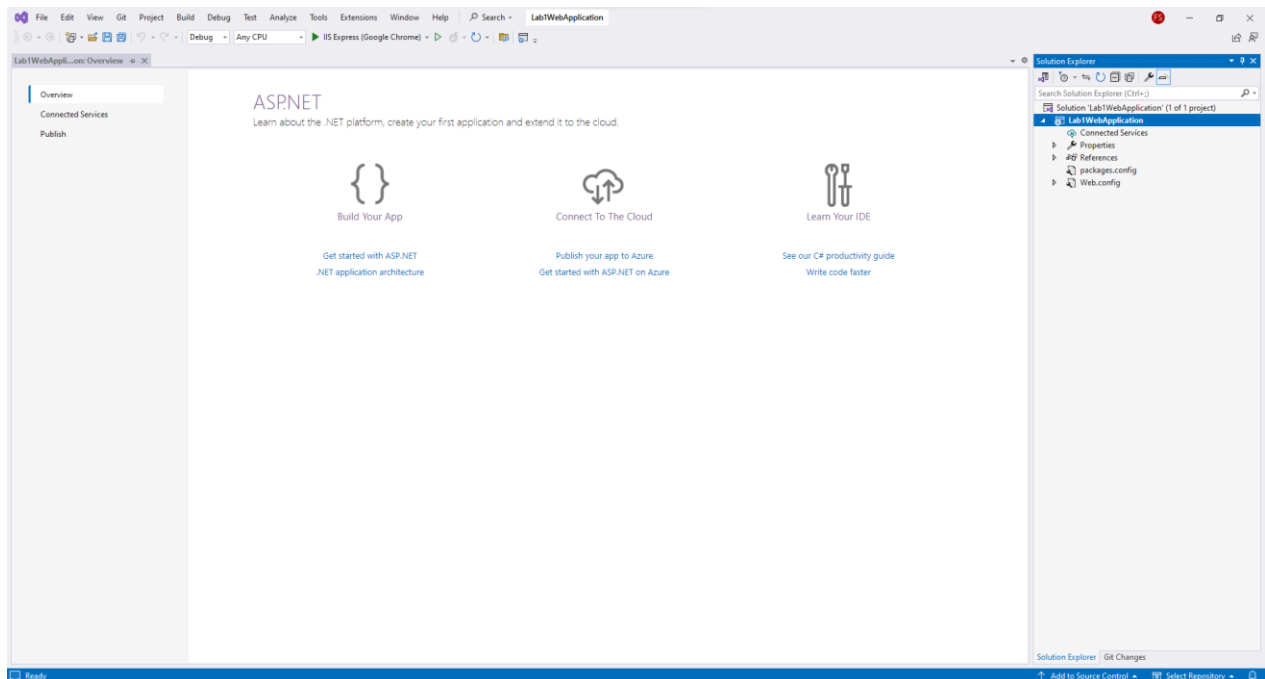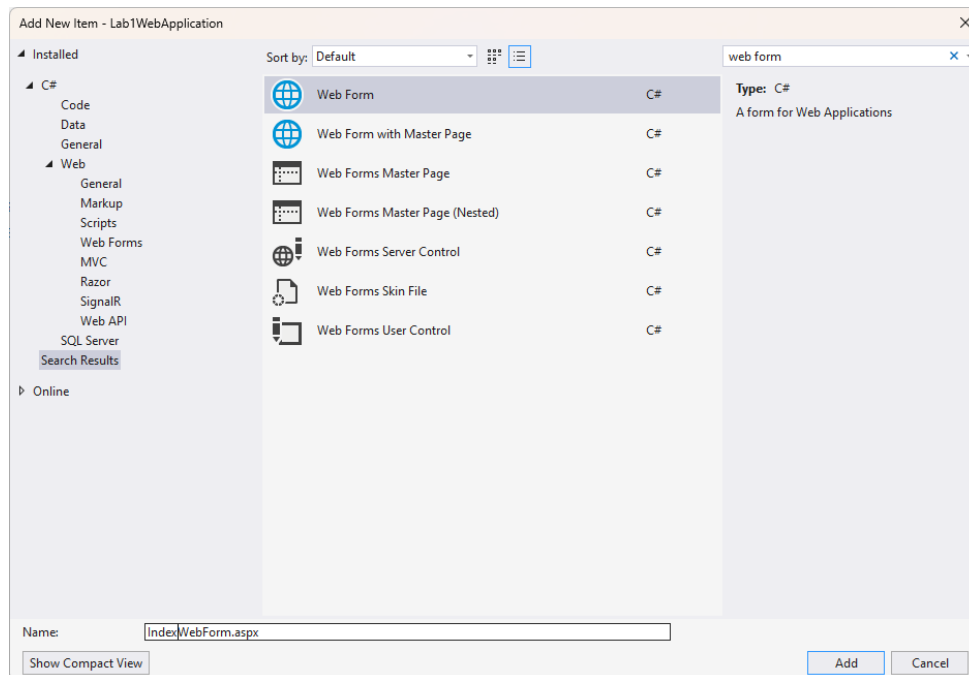
6. Right click on project name (e.g. Lab1WebApplication). Select "Add" > "New item". Then search for "Web Form" and rename it. (e.g. IndexWebForm.aspx). Click on "Add".
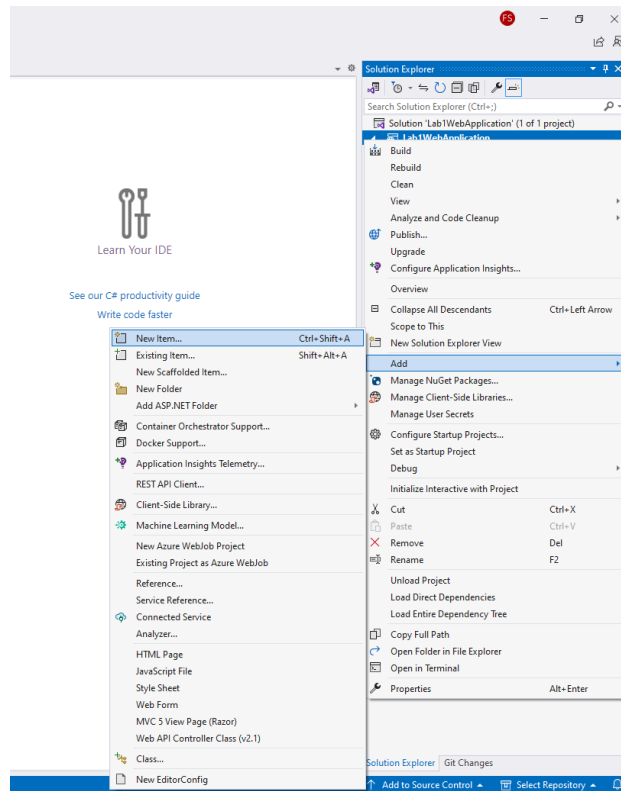
7. Modify the code and run.
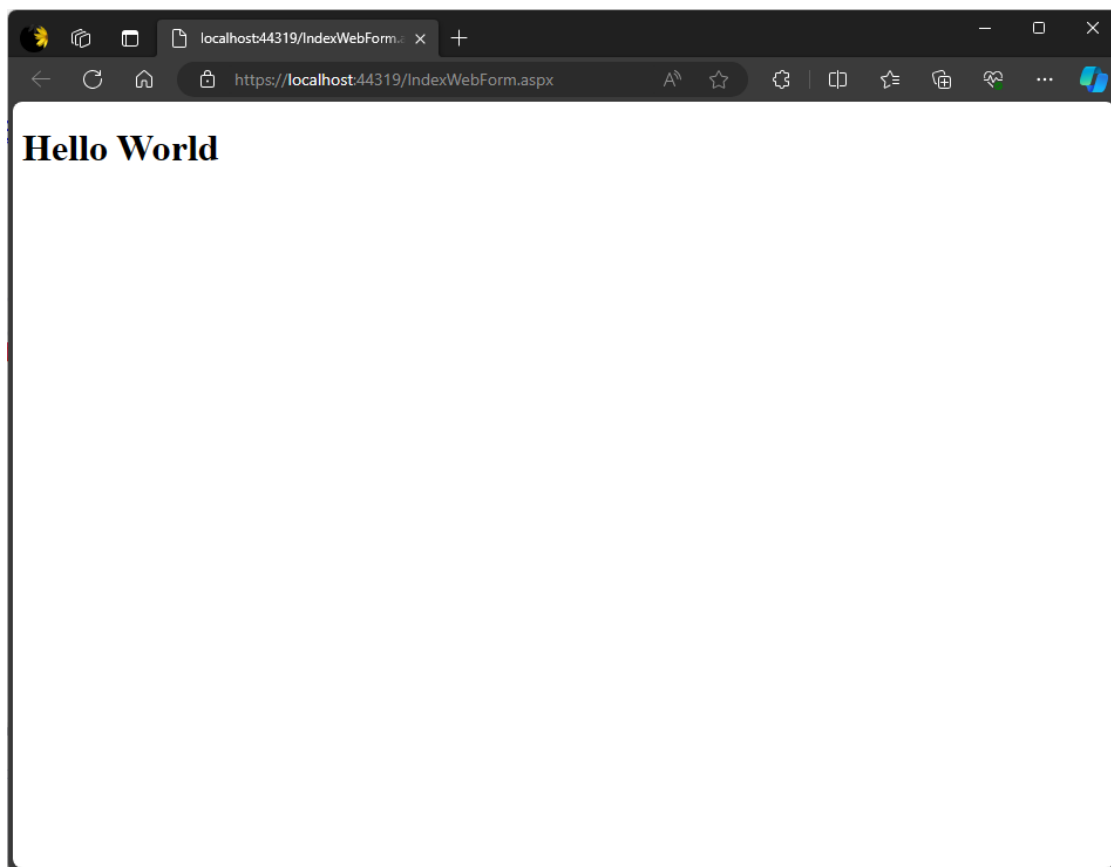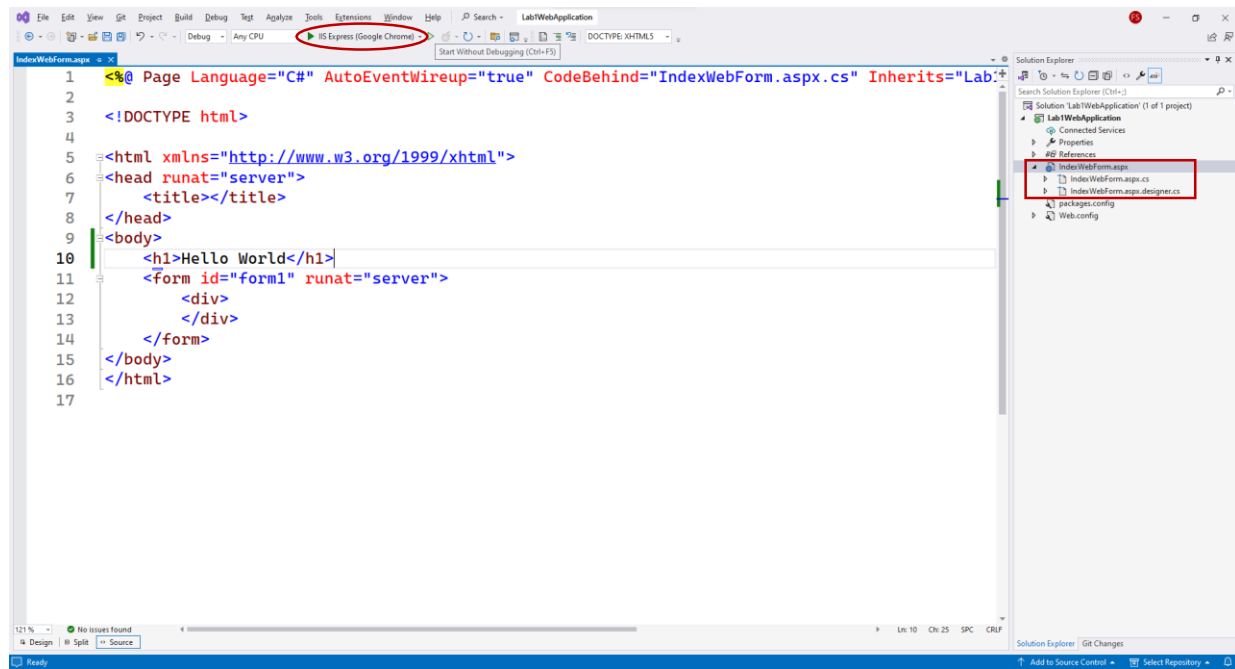
Step 4: Download Microsoft SQL Server Management Studio

1. Go to the official Microsoft SSMS website: https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16
2. Download SSMS 19.3 or the latest general availability version.
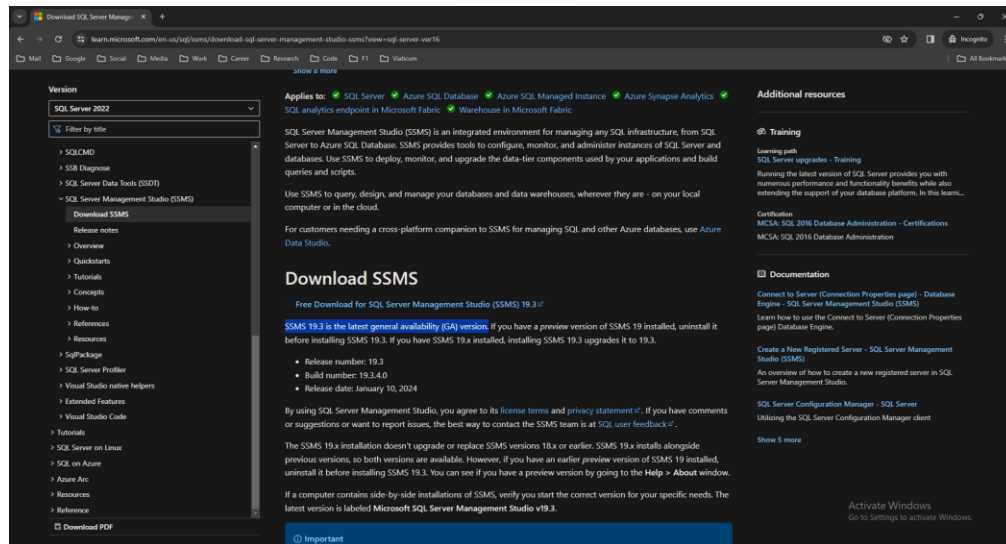
3. Go to Microsoft SQL Server official website: https://www.microsoft.com/en-us/sql-server/sql-server-downloads
4. Download the **Express** edition.
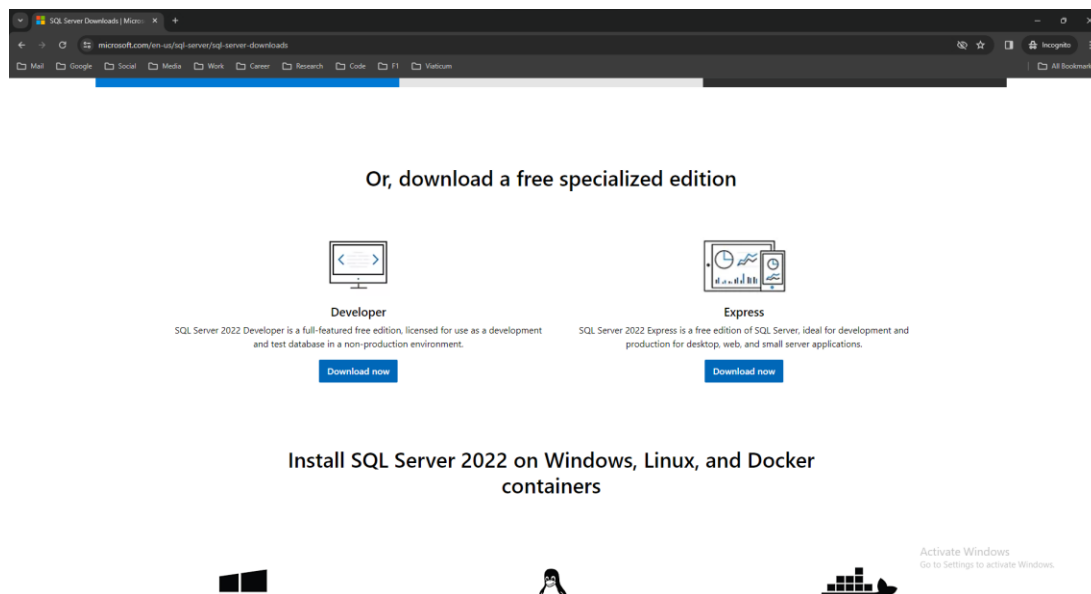
Step 5: Install SSMS

1. Open the SSMS downloaded file and follow the installation process.
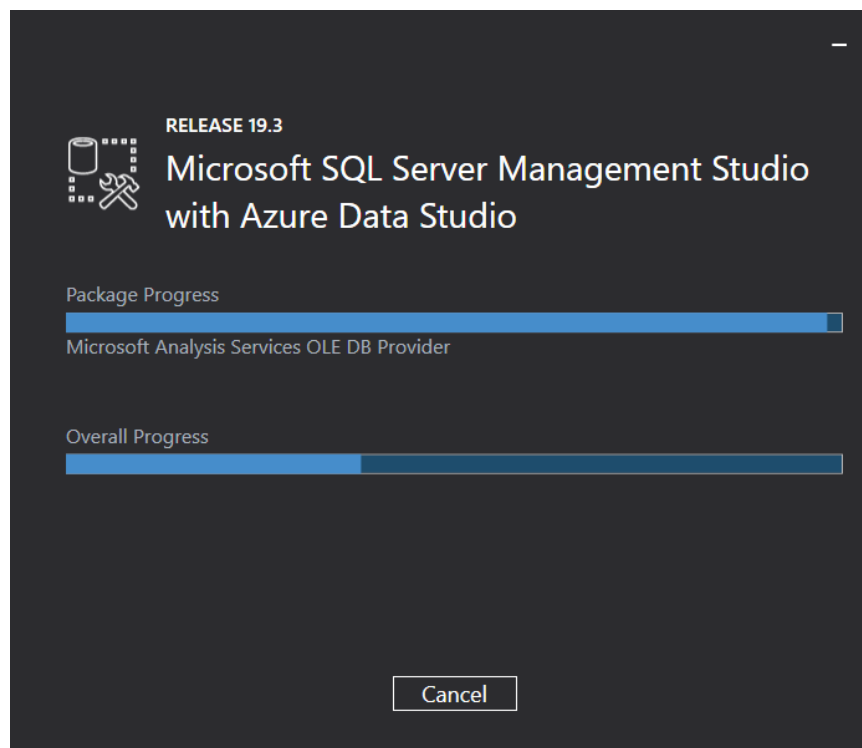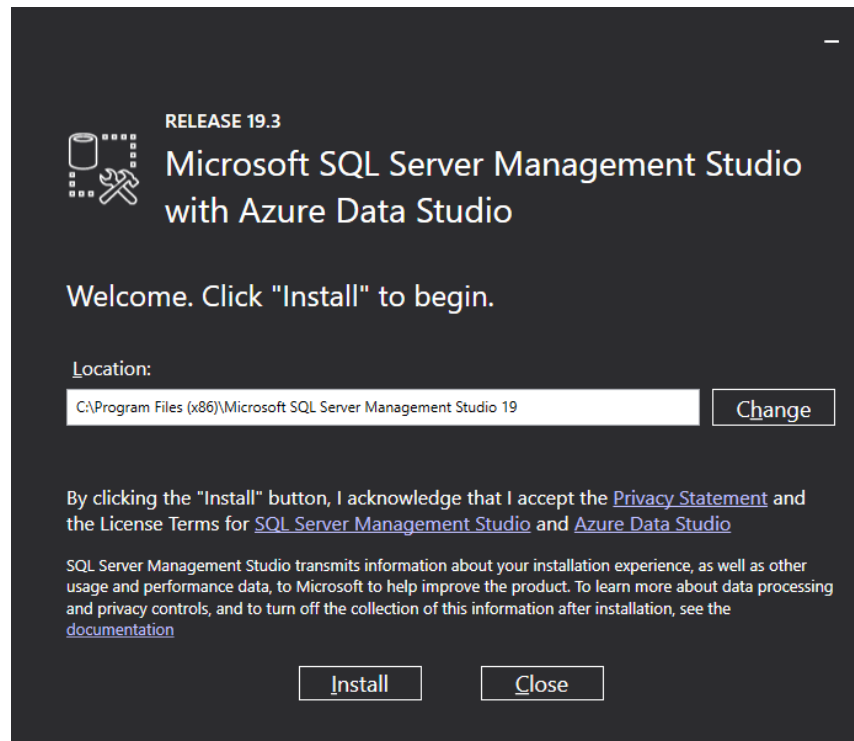
2. Open the SQL Server downloaded file.
   a. Select the **Custom** installation.
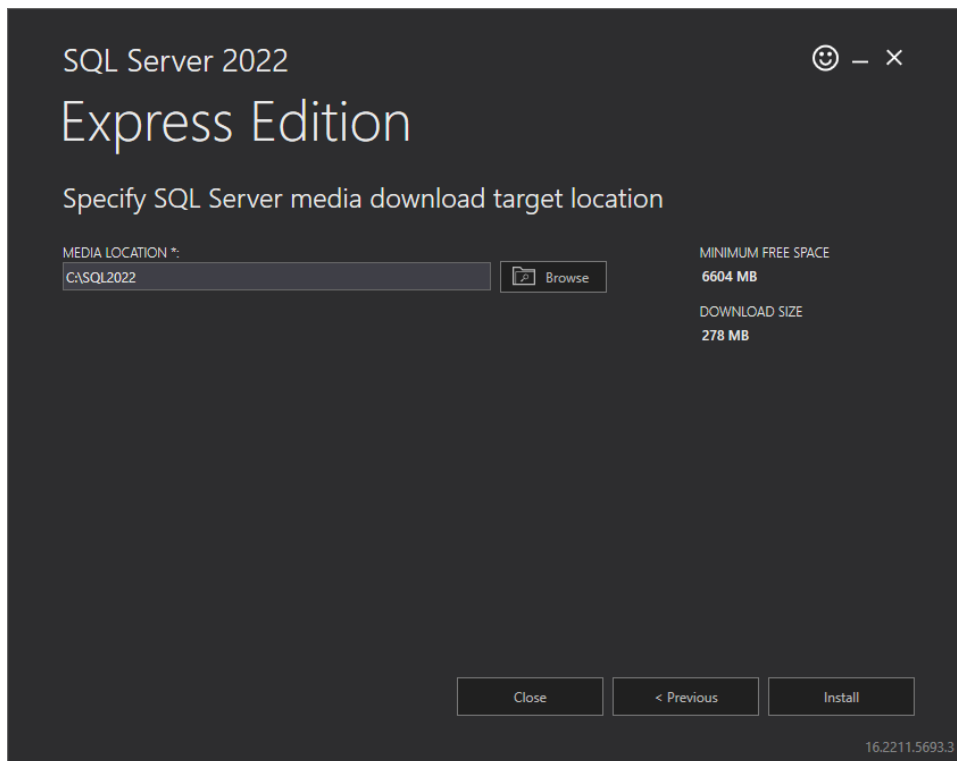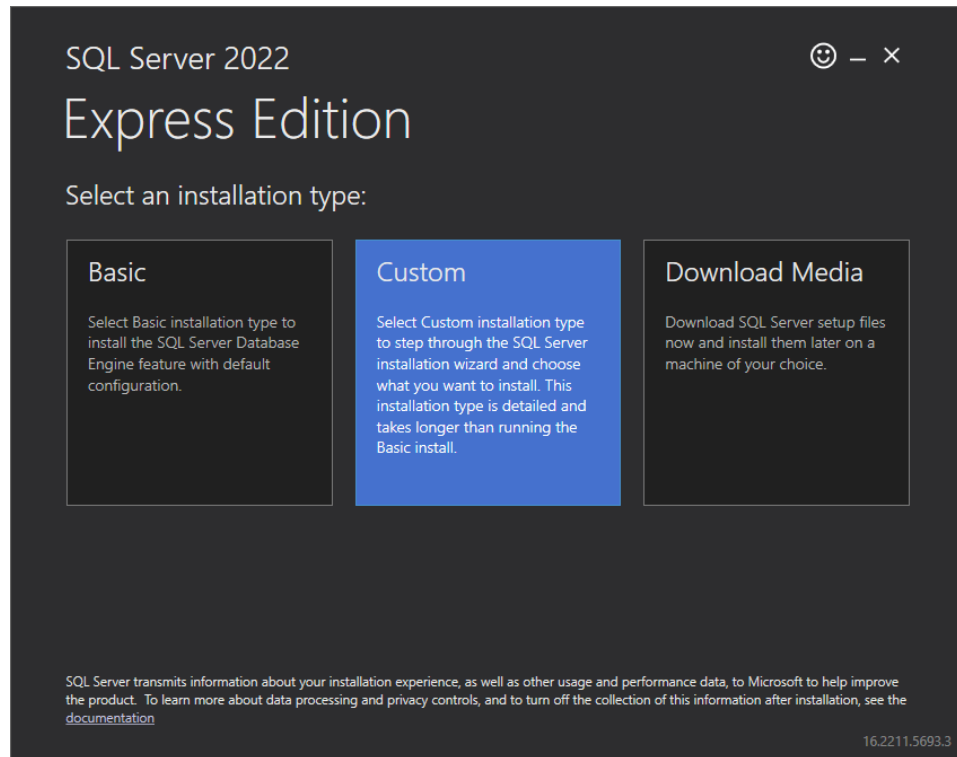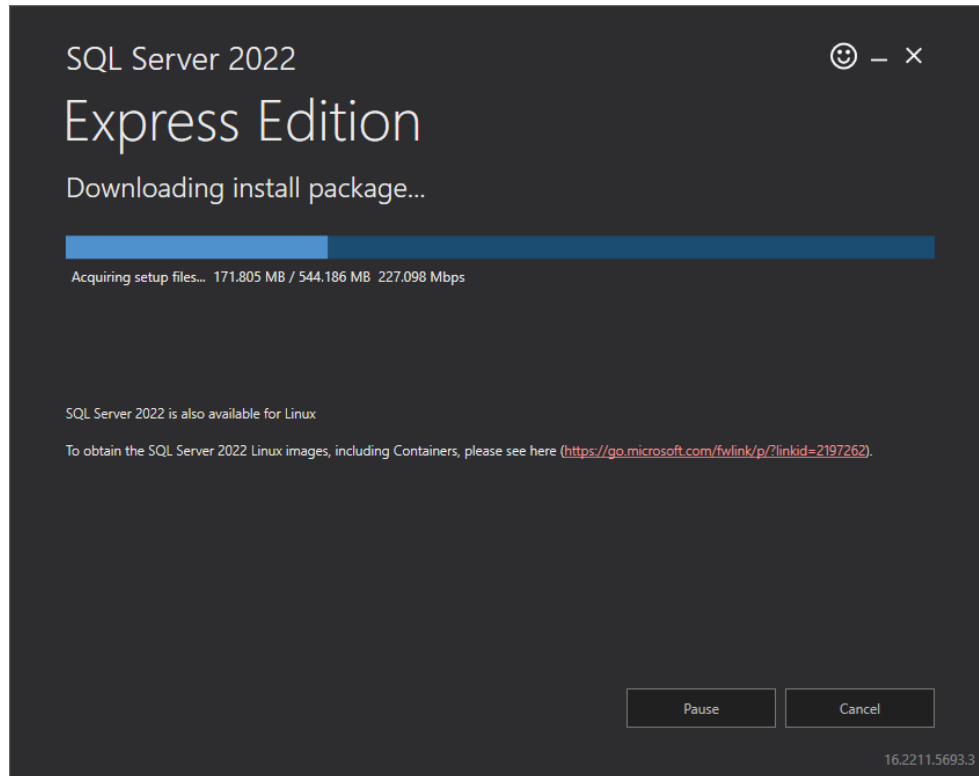
b. Select **New SQL Server standalone installation or add features to an existing installation**. And follow the following process.
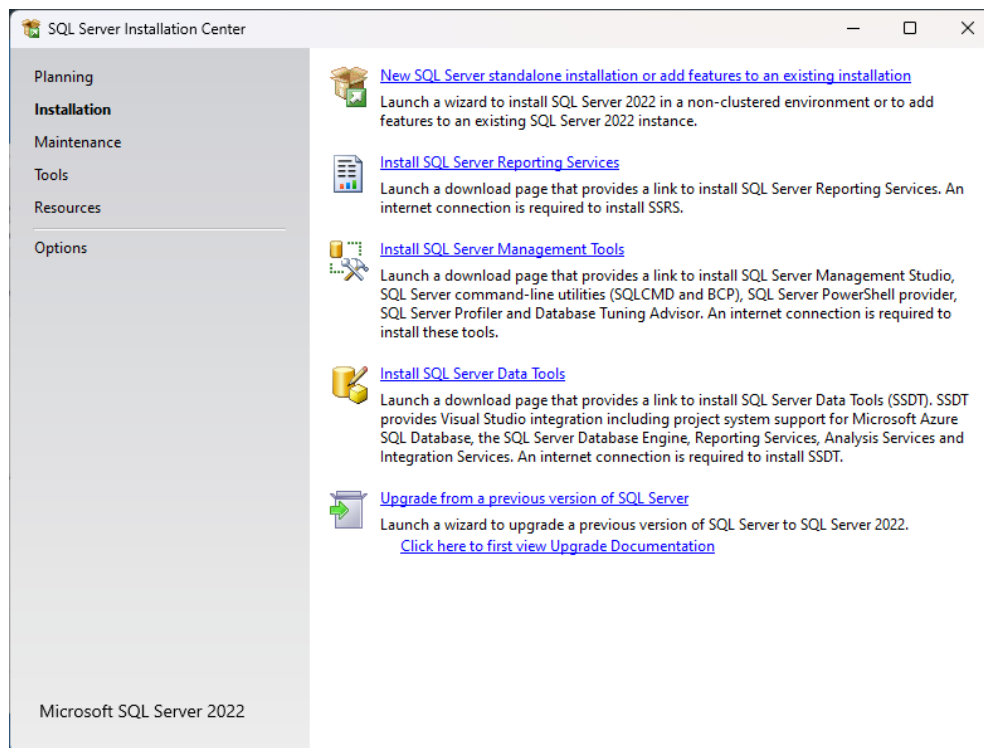
SQL Server 2022 Setup

License Terms

To install SQL Server 2022, you must accept the Microsoft Software License Terms.

License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Azure Extension for SQL Server
Feature Selection
Feature Rules
Feature Configuration Rules
Installation Progress
Complete

SQL Server 2022 Express Edition

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SQL Server transmits information about your installation experience as well as other usage and performance data. Azure Arc connection also transmits the configuration data to allow you to manage and protect your SQL Server instance using Azure Portal and services. To learn more about data processing and privacy controls, and to turn off the collection of certain information, see the documentation.

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SQL Server 2022 Setup

Azure Extension for SQL Server

Azure Extension for SQL Server is required to enable Microsoft Defender for Cloud, Purview, and Azure Active Directory.

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Install Rules
Azure Extension for SQL Serv...
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Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
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☐ Azure Extension for SQL Server

To install Azure extension for SQL Server, provide your Azure account or a service principal to authenticate the SQL Server instance to Azure. You also need to provide the Subscription ID, Resource Group, Region, and Tenant ID where this instance will be registered. For more information for each parameter, visit https://aka.ms/arc-sql-server.

○ Use Azure Login

⦿ Use Service Principal

Azure Service Principal ID*

Azure Service Principal Secret*

Azure Subscription ID*

Azure Resource Group*

Azure Region*

Azure Tenant ID*

Proxy Server URL (optional)

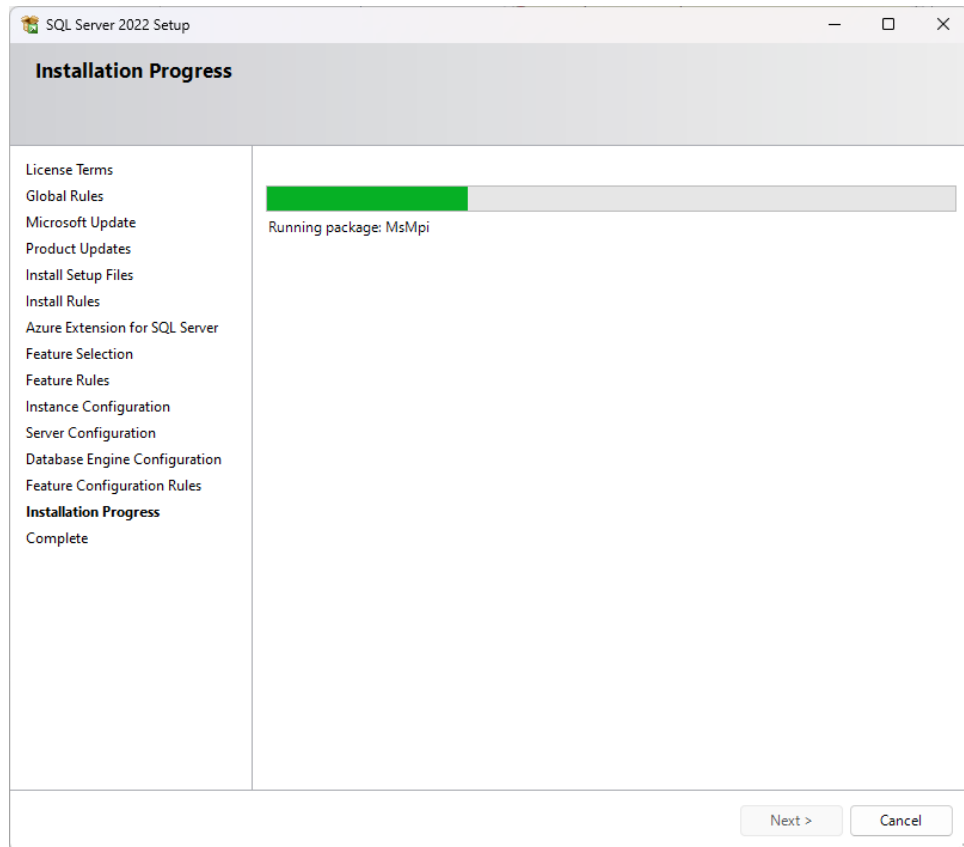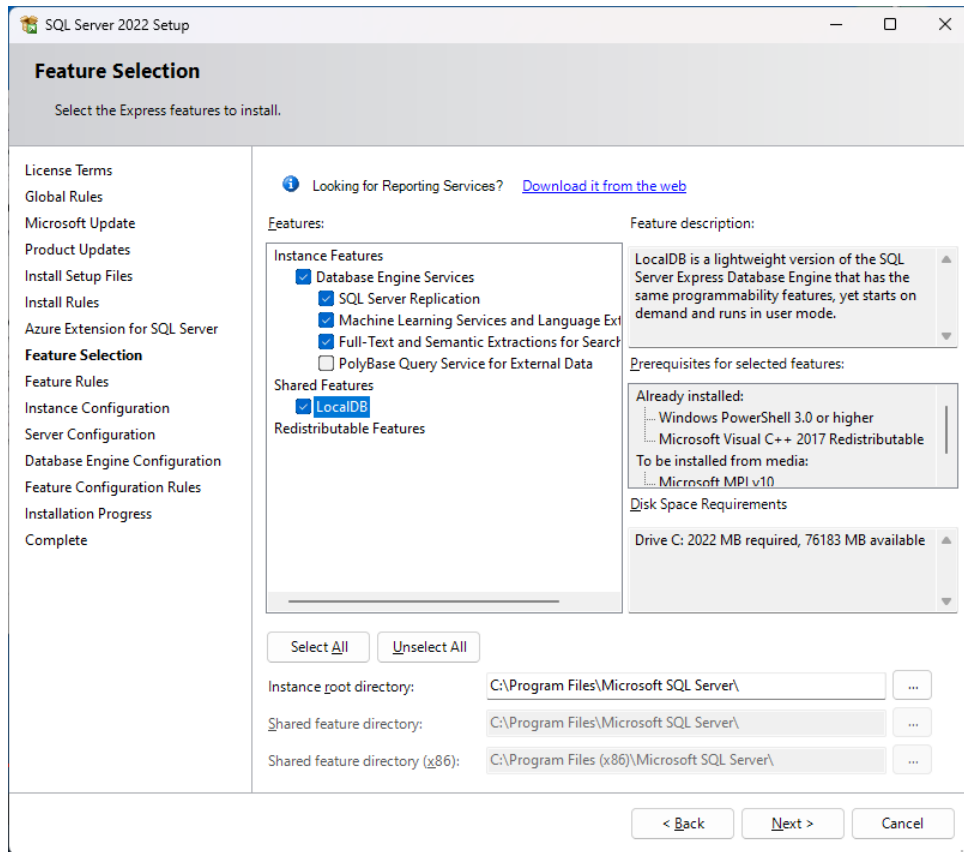❌ Arc feature requires AZURESUBSCRIPTIONID input.
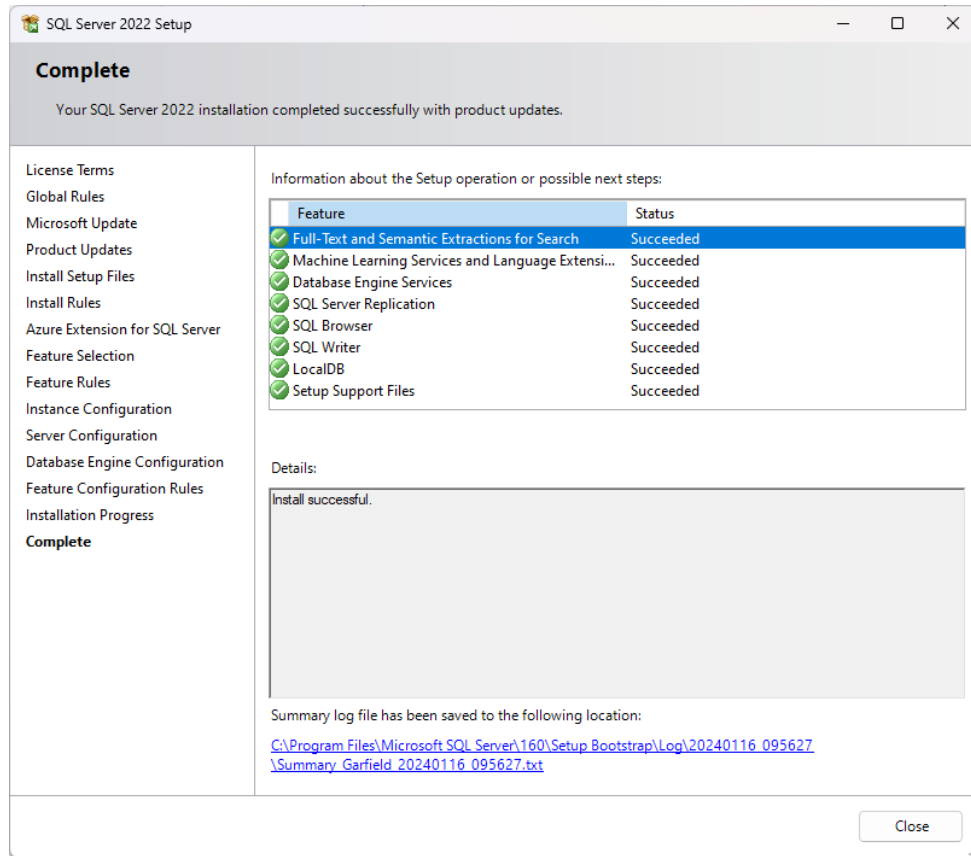❌ Arc feature requires AZURETENANTID input.
❌ Arc feature requires AZUREREGION input.

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SQL Server 2022 Setup

Feature Selection

Select the Express features to install.

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Server Configuration
Database Engine Configuration
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ⓘ Looking for Reporting Services?   Download it from the web

Features:

Instance Features
☑ Database Engine Services
  ☑ SQL Server Replication
  ☑ Machine Learning Services and Language Ext
  ☑ Full-Text and Semantic Extractions for Search
  ☐ PolyBase Query Service for External Data
Shared Features
  ☑ LocalDB
Redistributable Features

Feature description:

LocalDB is a lightweight version of the SQL Server Express Database Engine that has the same programmability features, yet starts on demand and runs in user mode.

Prerequisites for selected features:

Already installed:
  Windows PowerShell 3.0 or higher
  Microsoft Visual C++ 2017 Redistributable
To be installed from media:
  Microsoft MPI v10

Disk Space Requirements

Drive C: 2022 MB required, 76183 MB available

Select All   Unselect All

Instance root directory: C:\Program Files\Microsoft SQL Server\   ...

Shared feature directory: C:\Program Files\Microsoft SQL Server\   ...

Shared feature directory (x86):   C:\Program Files (x86)\Microsoft SQL Server\   ...

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SQL Server 2022 Setup

Installation Progress

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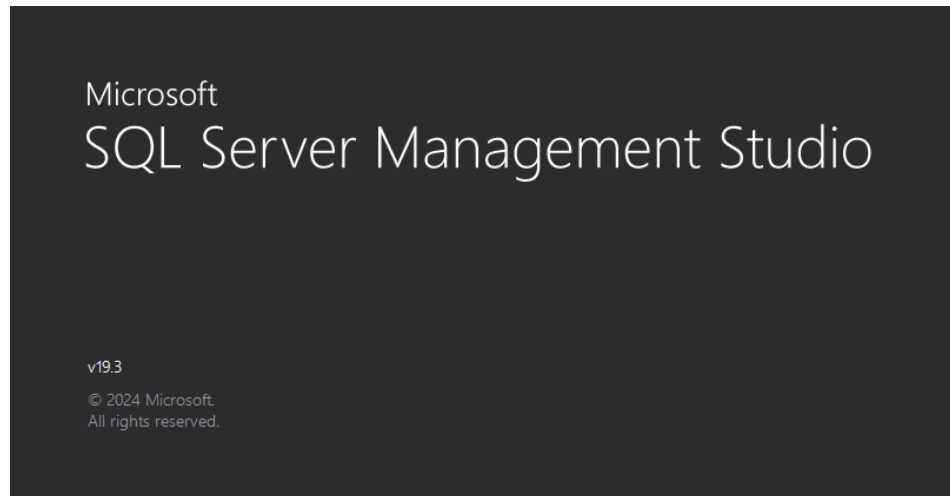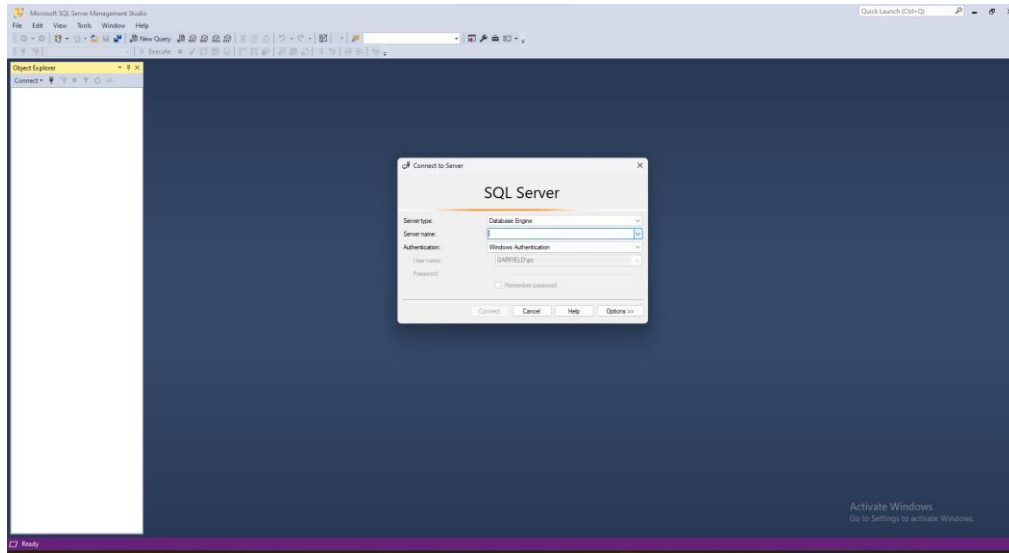**Installation Progress**
Complete

Running package: MsMpi

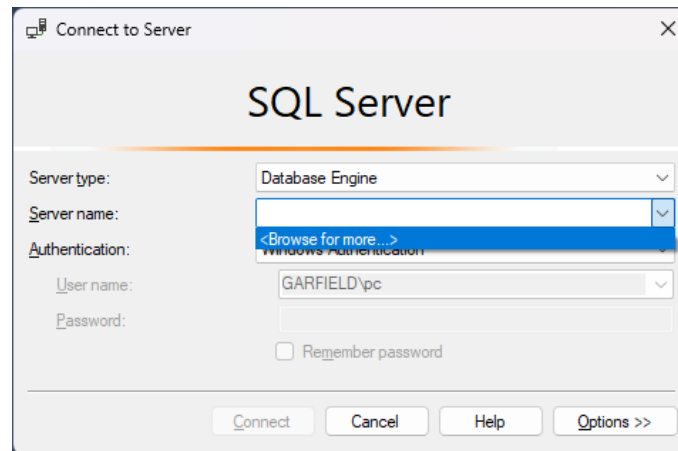Next >   Cancel

3. Search for **SQL Server Management Studio** and open the installed app.
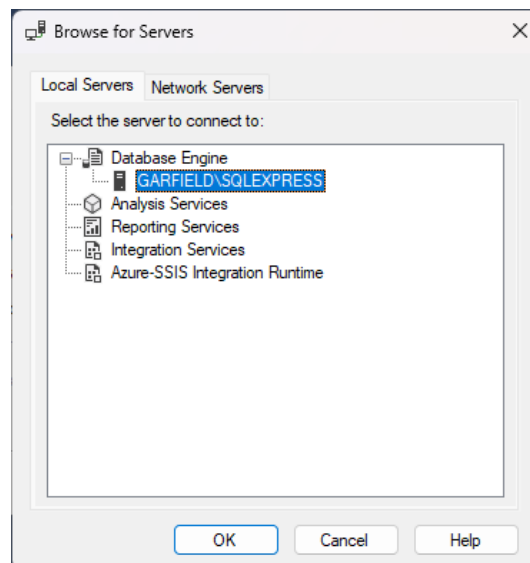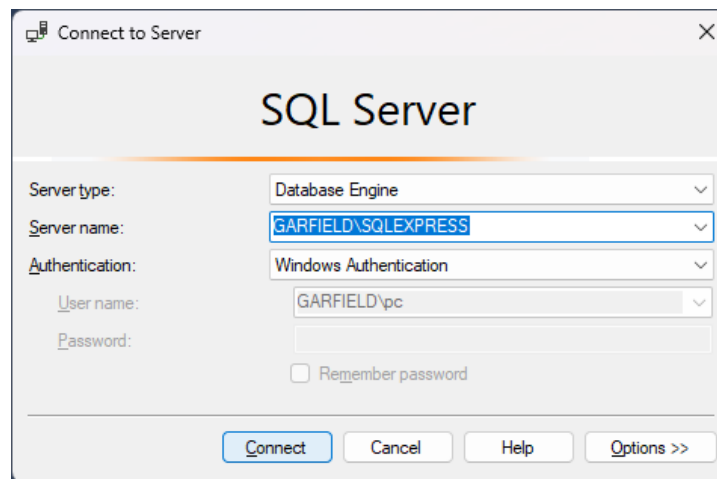
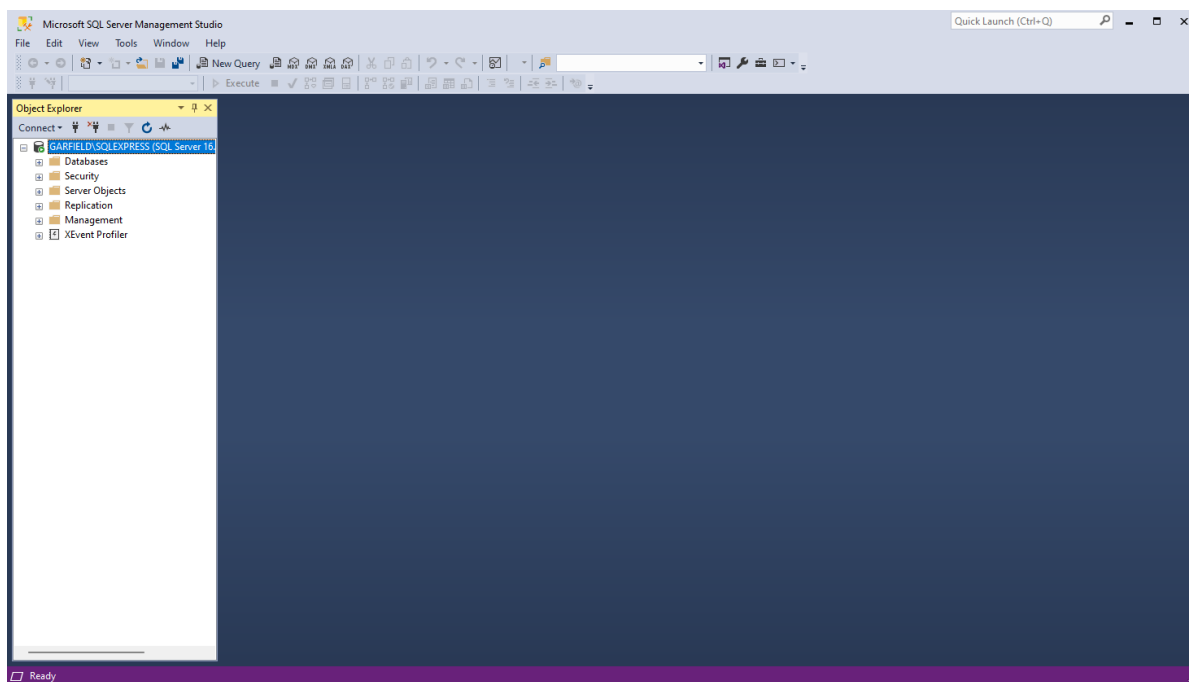Select **<Browse for more…>**

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.

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