Realtime Transaction Processing at scale

**Task1 : Install Chocolatey**

1. Open Power shell as administrator and run the below command.

**Get-ExecutionPolicy**

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1. Run below command to install.

Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))

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## **Task 2 :** Install kubernetes-helm

1. Oen Power shell as administrator and run below command to install Helm.

**choco install kubernetes-helm**

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## Task 1: Install Python

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://www.python.org/>, then press the **Enter** button.

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1. In the **Python** window, select the **Downloads** tab, then click on **Python 3.12.1** or later version.

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1. **python-3.12.1-amd64.exe** file will be downloaded. Click on the downloaded file to install the Python software.

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1. In the **Install Python 3.12.1 (64-bit)** window, tick the checkbox **Add python.exe to PATH** option before installation (Python must be in the PATH environment variable). Then, click on **Customize installation**.

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1. Leave the **Optional Features** window in the default state and click on the **Next** button.

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1. In the **Advanced Options** window, tick the checkbox **Install Python 3.11 for all users** and then click on the **Install** button. If you see the dialog box - **Do you want to allow this app to make changes to your device?** then click on the **Yes** button.

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1. In **Setup was successful** window, click on the **Close** button. You have successfully installed the Python software.

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1. In your windows search bar, type **Command Prompt**. In the **Command Prompt App** dialog box, navigate and click on **Run as administrator**. If you see the dialog box - **Do you want to allow this app to make changes to your device?** then click on the **Yes** button.

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1. Python was installed in C:\Program Files\Python311 (refer step #6). Therefore, you need to change the current directory to the **Program Files** directory (The command used to move back to the previous directory is **cd .. [space after cd then two dots],** the command used to move to the next directory is **cd <name of the directory>)**
2. Move into the folder where the Python was installed and run the **pip** command.

Copy

cd Program Files

Copy

pip

copy

python -m pip install --upgrade pip

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**Task 4 : Install .NET SDK 8.**

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://dotnet.microsoft.com/en-us/download/dotnet/thank-you/sdk-8.0.101-windows-x64-installer> then press the **Enter** button.
2. File will be downloaded. Click on the downloaded file to install

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1. Click on **Install**.

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1. Once the installation is successful, click on **Close**.

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**Task 5 : Install Node JS.**

1. Open your browser, navigate to the address bar, type or paste the following URL: [Node.js — Download (nodejs.org)](https://nodejs.org/en/download) then press the **Enter** button.
2. Click on the **Windows Installer**

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1. File will be downloaded. Click on the downloaded file to install

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1. Click on Next.

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1. Accept the terms and click on Next.

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1. Keep the default location and click Next.

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1. Click Next

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1. Select the checkbox and then click Next.

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1. Click on Install.

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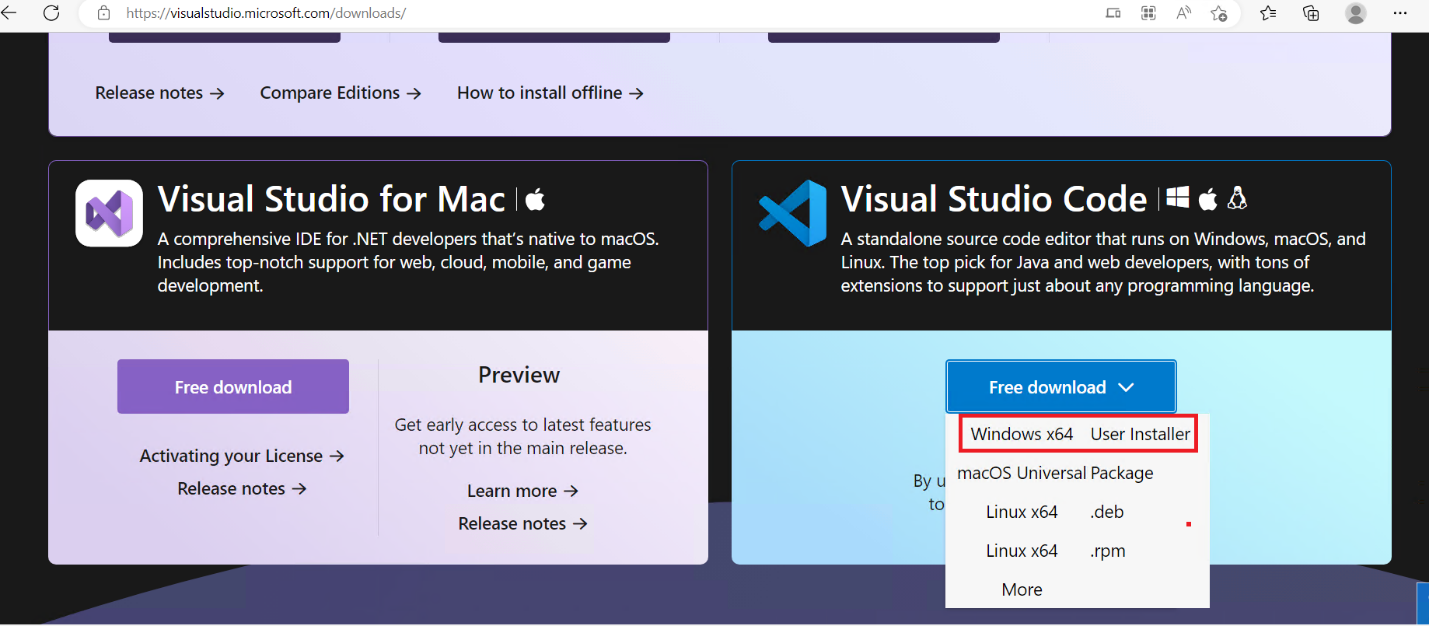
1. After installation ,click Finish.

A screenshot of a computer

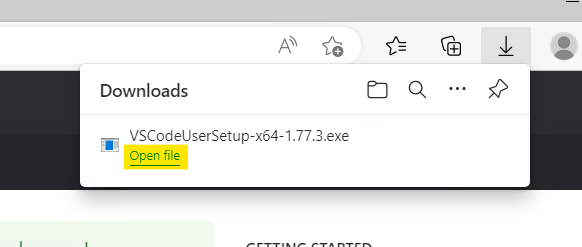
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**Task 6 : Install Visual Studio Code.**

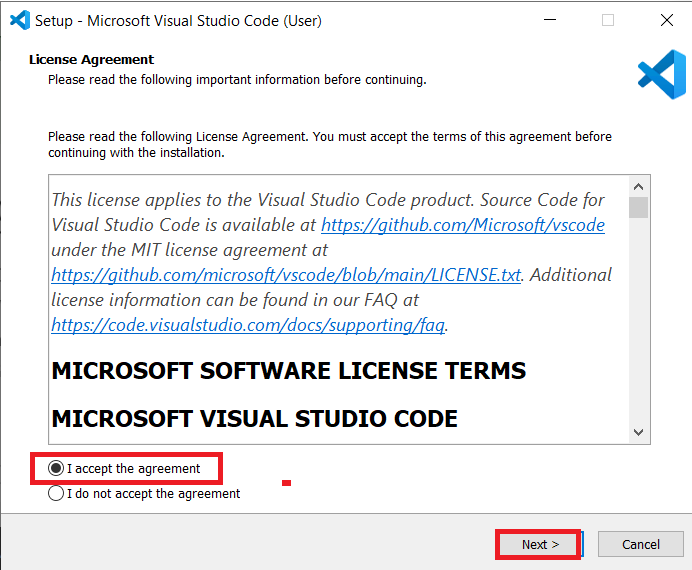
1. Open your browser and Navigate to the <https://visualstudio.microsoft.com/downloads/>
2. Drop down the **Free download** and select **Windows x64 User Installer**

****

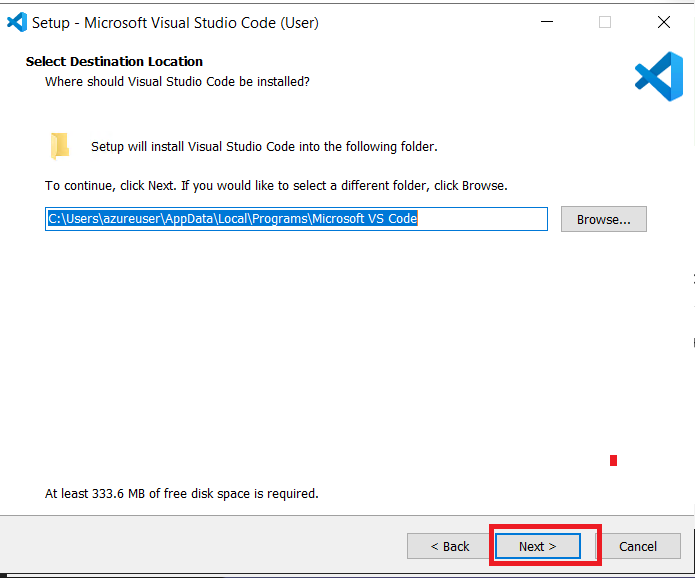
1. Run and install downloaded file

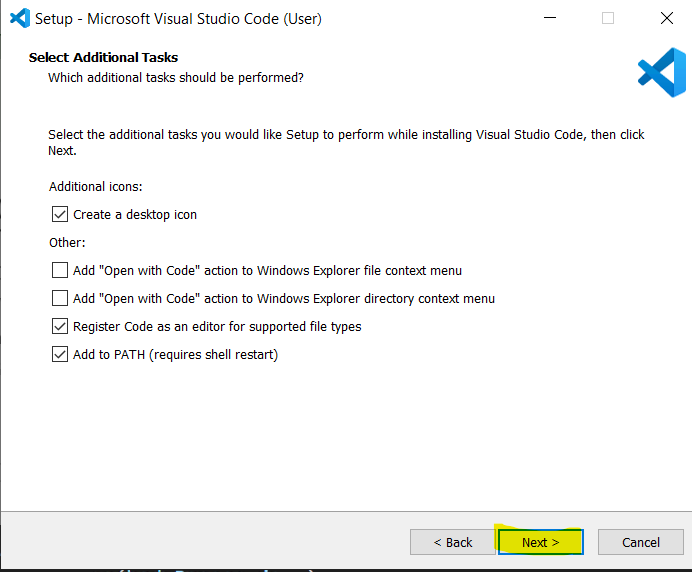
****

1. Select **I accept the agreement** and select **Next**.

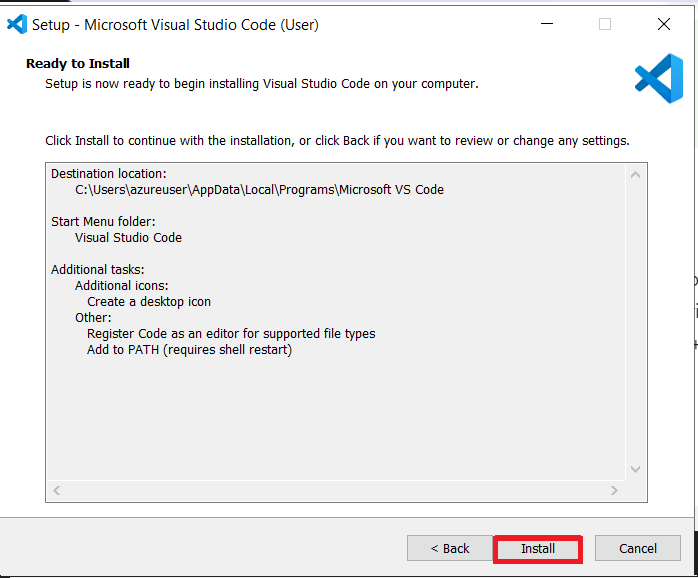
****

1. Select the location where should install Visual Studio and then select **Next**

****

****

1. Click **Install**

****

## Task 7 : Install GitGit

1. Download and install from [git-scm.com/downloads](https://git-scm.com/downloads).
2. Follow the instructions to install it.

## Task 8: Azure CLI

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://learn.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli>, then press the **Enter** button.
2. In the **Install Azure CLI on Windows** window, select the **Downloads** tab, then click on **Latest release of the Azure CLI(64-bit)** or later version.

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1. File will be downloaded. Click on the downloaded file to install

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1. Click on I accept the terms check box and then click on **Install**.

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1. Click on **Finish**.

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**Task 10: Istall nvm**

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://github.com/coreybutler/nvm-windows/releases> then press the **Enter** button.
2. Click on the **nvm-setup.exe.**

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1. File will be downloaded. Click on the downloaded file to install

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1. On the Setup-NVM for Windows tab select the **I accept the agreement** and click on **Next** button

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1. Select the path and click on **Next** button

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1. On ready to install tab , click on Install button.

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## Task 11: Install Helm and set the Path

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://github.com/helm/helm/releases> then press the **Enter** button.
2. File will be downloaded. Click on the downloaded file to install



1. Extract the folder copy and past into Program files folder in C drive

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1. Copy the helm path

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1. Open the run command by pressing **Windows + R** and type **sysdm.cpl** and hit enter, this command will open the System Properties Window.

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1. Under System Properties, click on the **Advanced** tab, and click on**Environment Variables.**

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1. Under User Variables, click on **Path** and click on **Edit** button.

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1. In the **Edit environment variable** ,select **New** and past the **helm path**.Click on **Ok** button

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1. Under System Variables, select **Path** and click on **Edit** button

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1. In the **Edit environment variable** ,select **New** and past the **helm path**.Click on **Ok** button

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1. In Environment variable tab click on Ok button

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1. On the System Properties tab , click on **Apply** and select Ok button.

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## Task 12: Update App Installer

1. Click on the following link: <https://aka.ms/getwingetpreview> , open the downloaded file and click on the **Update** button to **Update App Installer**.

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## Task 13 : Install VisualStudio

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://visualstudio.microsoft.com/downloads/> then press the **Enter** button.
2. Click on Free download from Community

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1. File will be downloaded. Click on the downloaded file to install

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1. Click on **Continue.**

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1. Under the web & cloud click the check boxes of **ASP.NET and web development , Azure development,Python development** and **Node.js** Click on **Install**.

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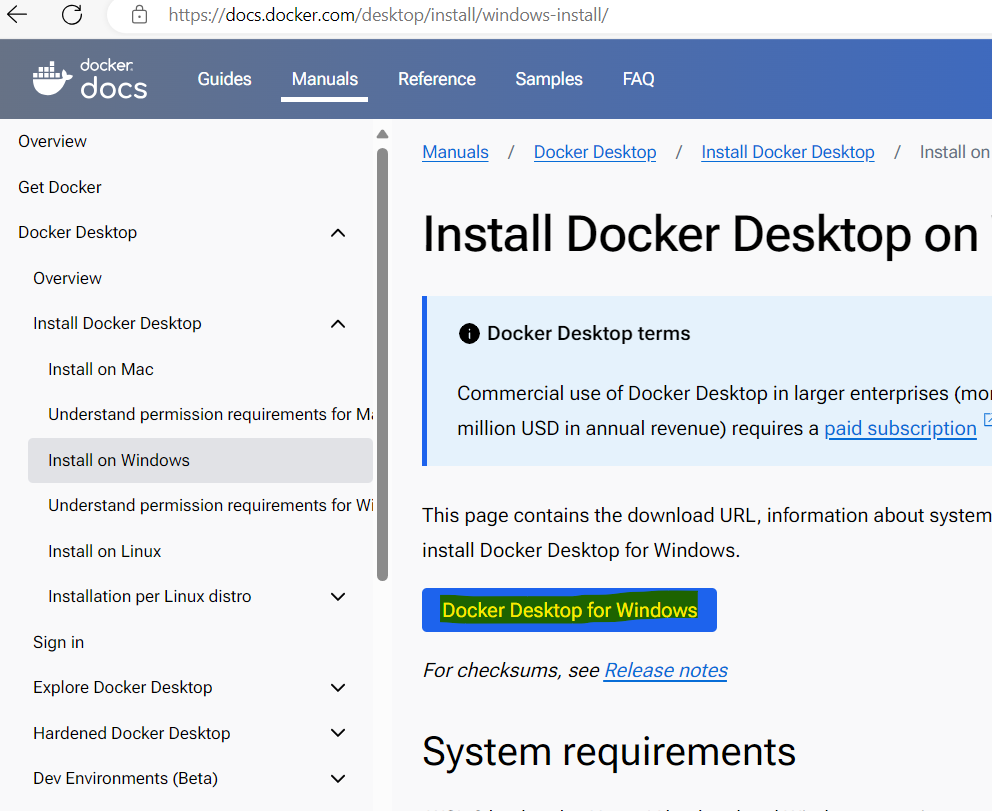
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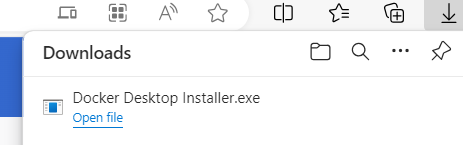
1. Close the window once done.

## Task 14: Docker Installation

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://docs.docker.com/desktop/install/windows-install/> then press the **Enter** button.
2. Click on the **Docker Desktop for Windows**.



1. File will be downloaded. Click on the downloaded file to install



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## **Task 15 : Install** [**Git CLI**](https://git-scm.com/downloads)

1. Navigate to [https://git-scm.com/download/win](https://git-scm.com/download/win%20) and download for windows.

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2. Run and install the downloaded file.

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Description automatically generatedGraphical user interface, text, application, email

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## **Task 16: Install function cli**

1. Open your browser, navigate to the address bar, type or paste the following URL: <https://learn.microsoft.com/en-us/azure/azure-functions/functions-run-local?tabs=windows%2Cisolated-process%2Cnode-v4%2Cpython-v2%2Chttp-trigger%2Ccontainer-apps&pivots=programming-language-csharp>, then press the **Enter** button.
2. In the **Develop Azure Functions locally using Core Tools** window, select the **Downloads** tab, then click on **v4.x-windows64-bit** or later version.

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1. File will be downloaded. Click on the downloaded file to install

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1. Click on **Next** and select the check box to **accept the license** in the next step and click on **Next**.

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1. Click on Next and then **Install** in the next screen.

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1. Click on **Finish** once done.

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