Lab Manual- Setup Development Enviornment

Prepared for:

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Contributor:

Table of Contents

1 OBJECTIVE

For various exercise we need to setup the local development environment where developer will create and update the code for application.

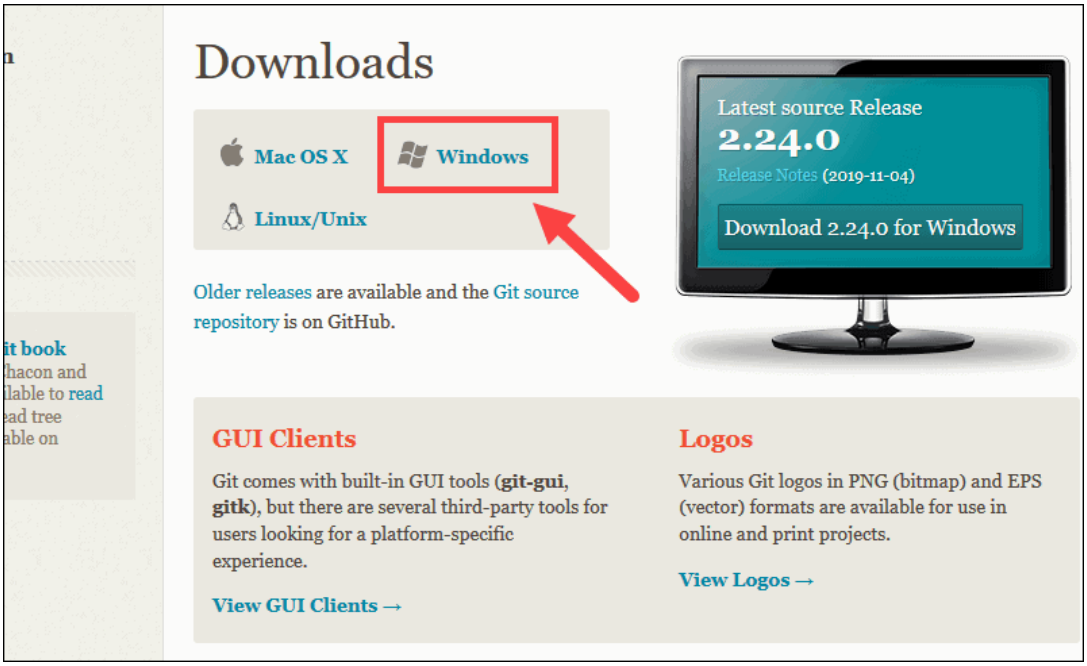
2 PRE-REQUISISTE

- Accounts in Azure
- A local Computer with 4 CPU, 16 GB RAM, 200 GB disk space

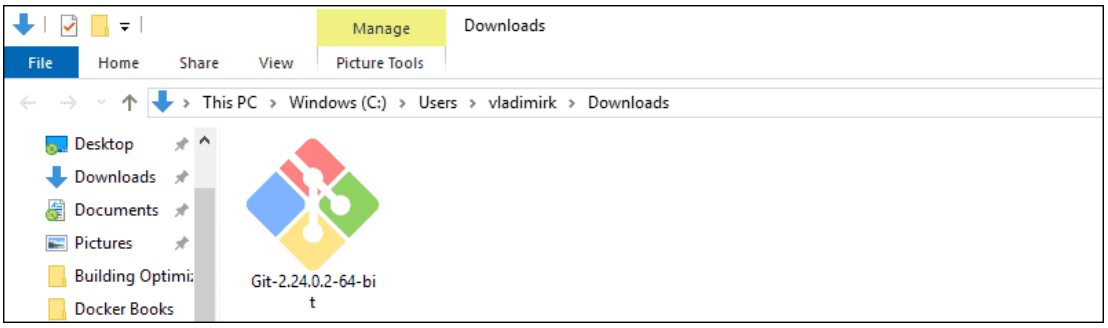
3 Setting up Development Environment

3.1 Download and Install Git for Windows

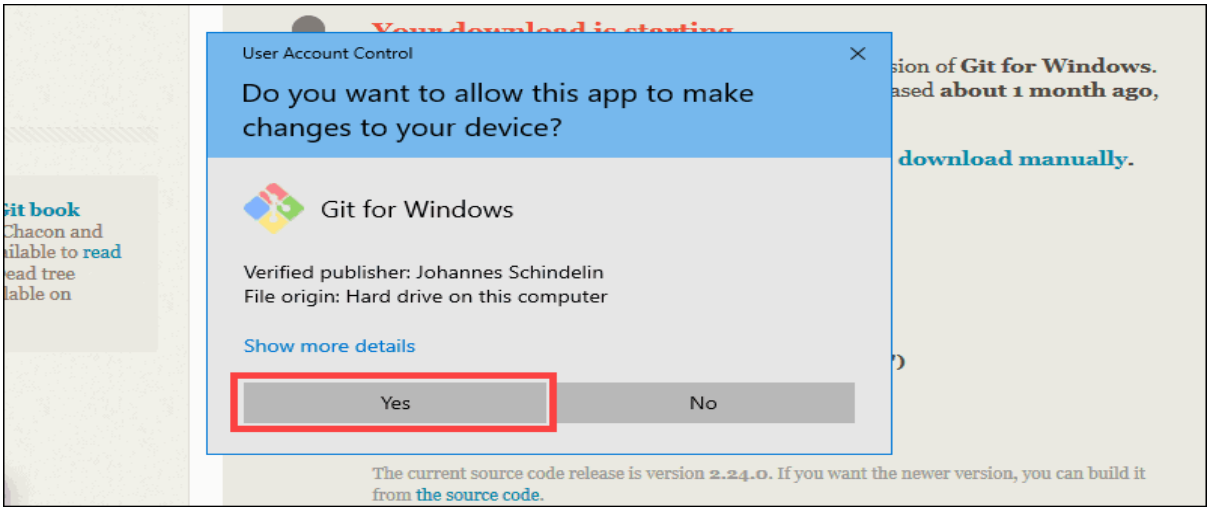
- Browse to the official Git website: https://git-scm.com/downloads
- Click the download link for Windows and allow the download to complete.



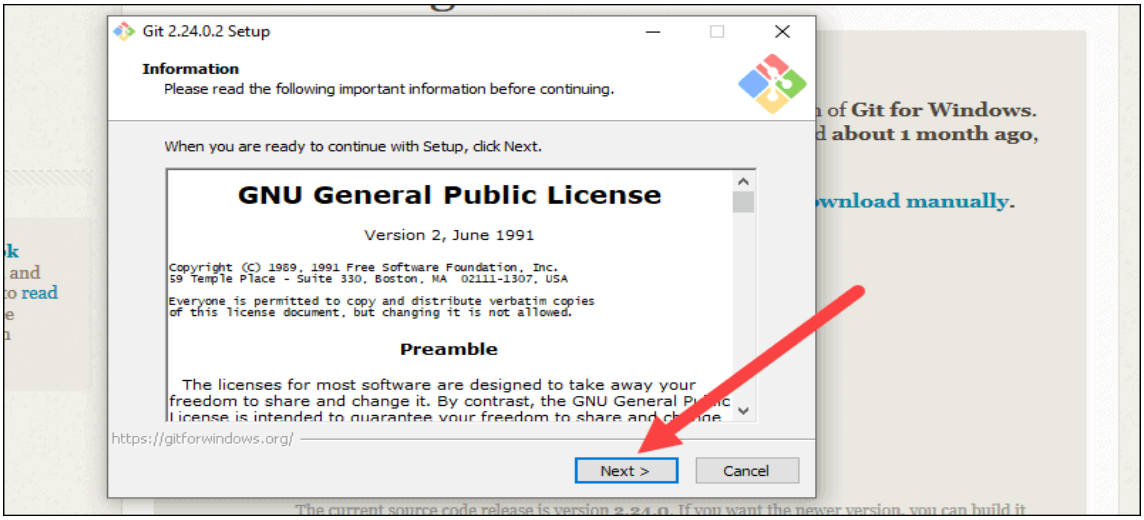
- Browse to the download location (or use the download shortcut in your browser). Double-click the file to extract and launch the installer.



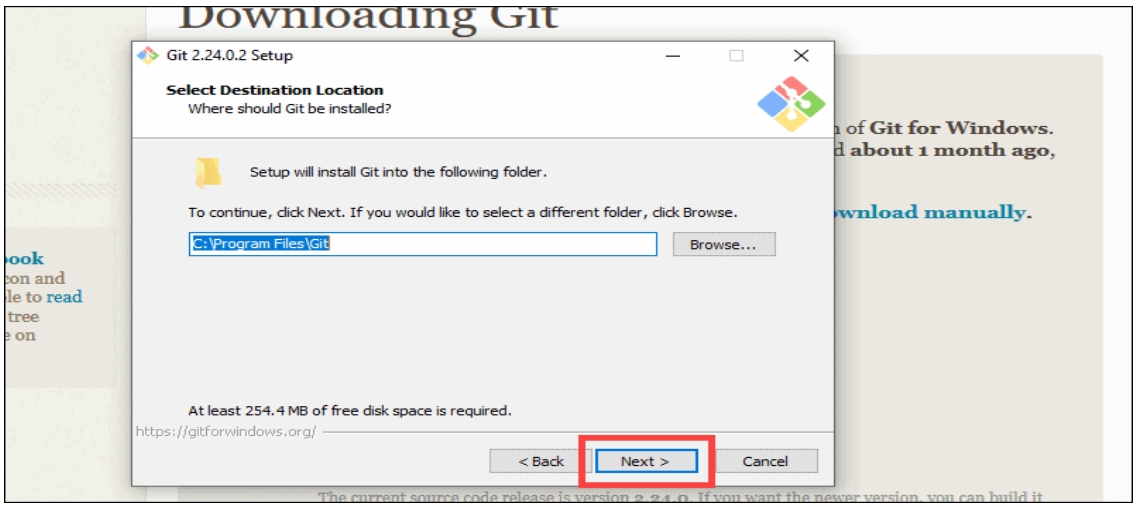
- Allow the app to make changes to your device by clicking **Yes** on the User Account Control dialog that opens



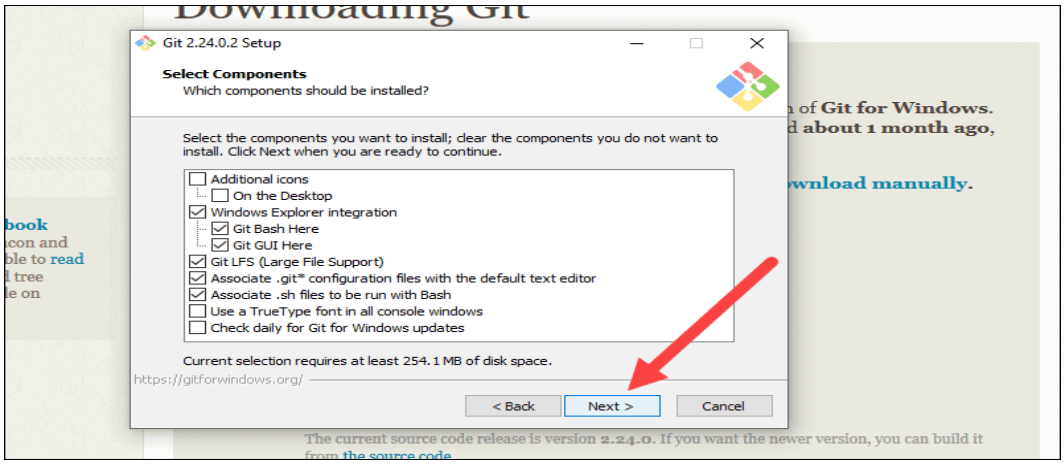
- Review the GNU General Public License, and when you're ready to install, click Next.



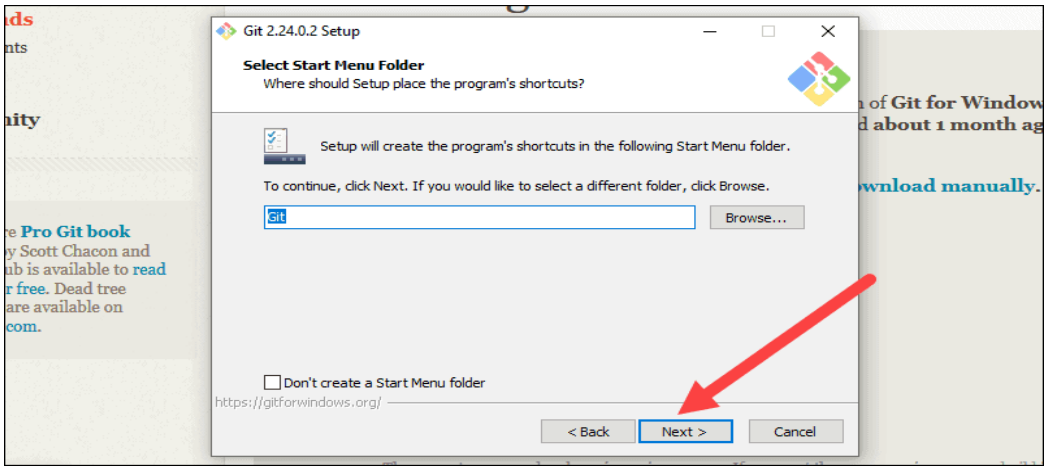
- The installer will ask you for an installation location. Leave the default, unless you have reason to change it, and click Next.



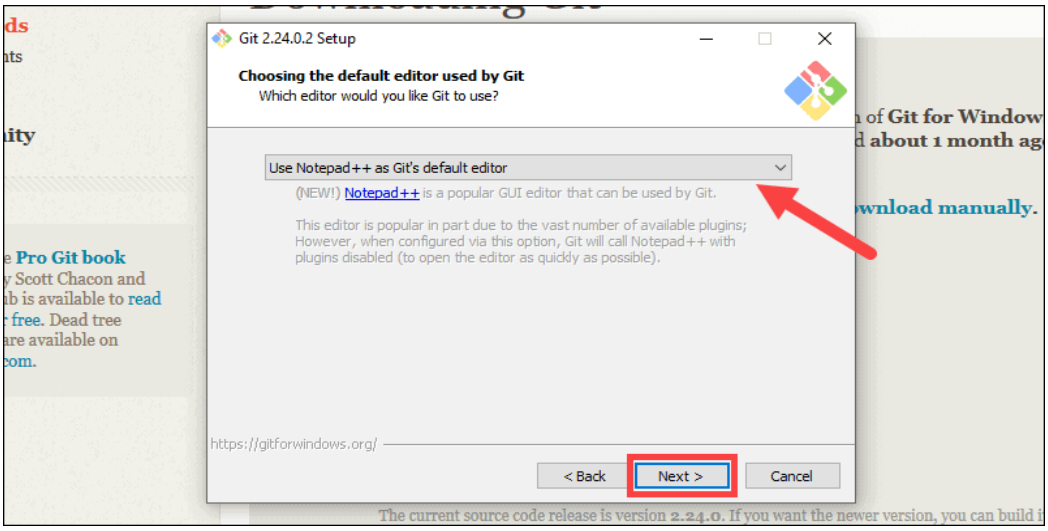
- A component selection screen will appear. Leave the defaults unless you have a specific need to change them and click Next.



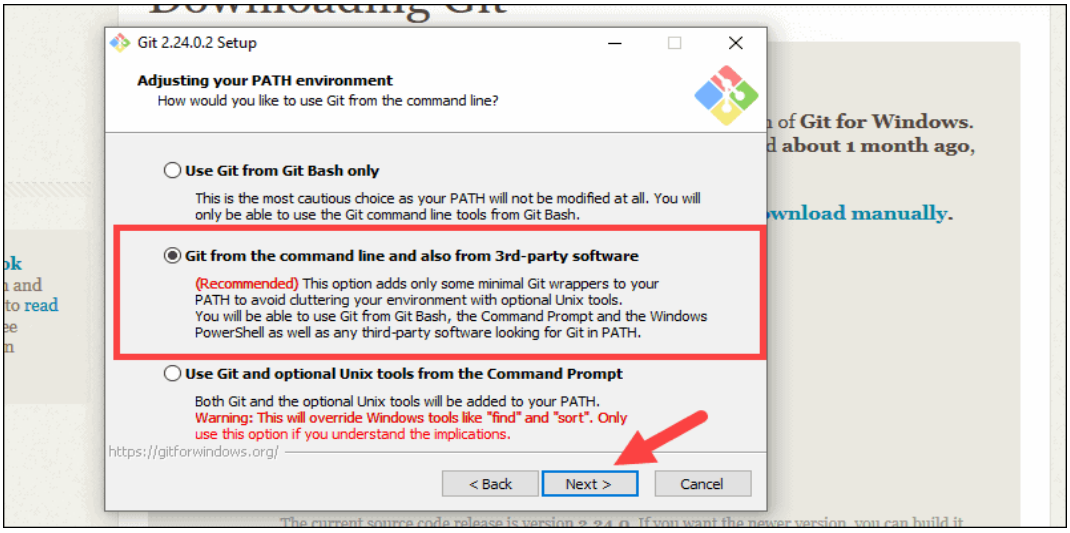
- The installer will offer to create a start menu folder. Simply click **Next.**



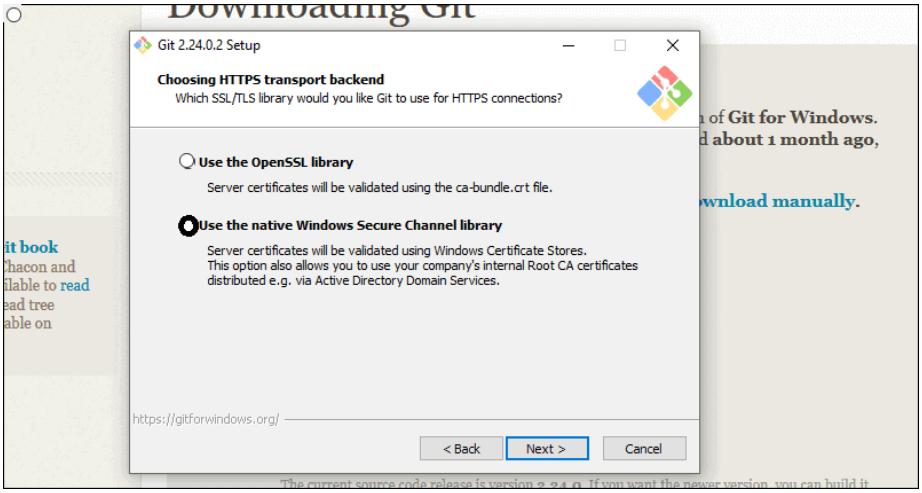
- Select a text editor you'd like to use with Git. Use the drop-down menu to select Notepad++ (or whichever text editor you prefer) and click **Next.**



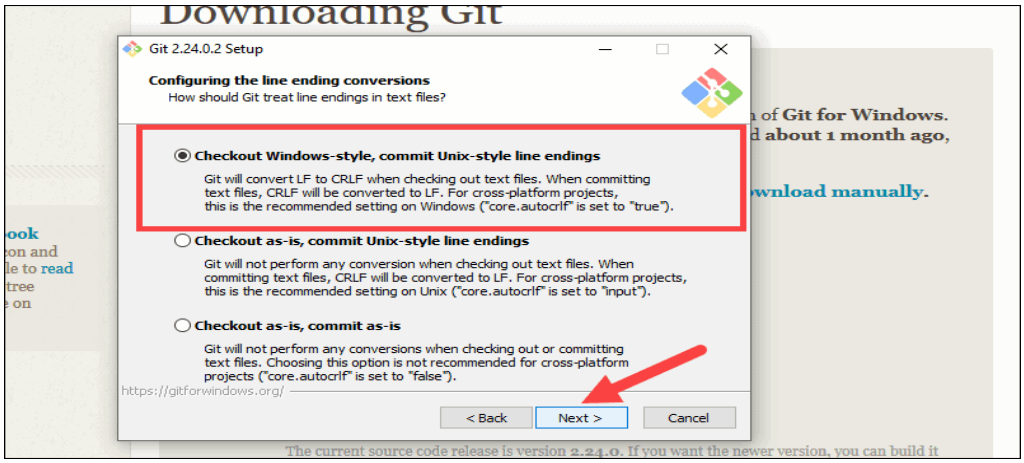
- This installation step allows you to change the **PATH environment**. The PATH is the default set of directories included when you run a command from the command line. Leave this on the middle (recommended) selection and click Next.



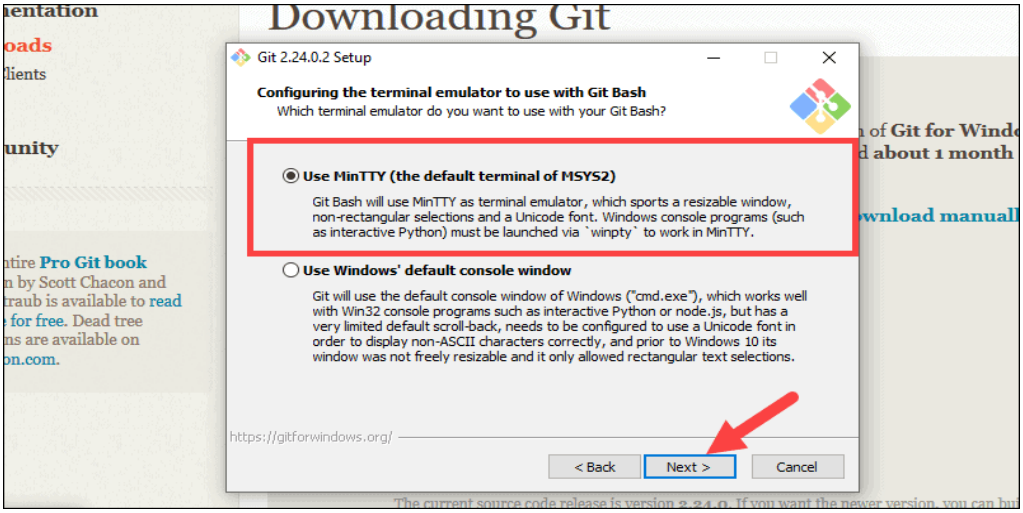
- The next option relates to server certificates. Select Windows Store certificates. Click **Next.**



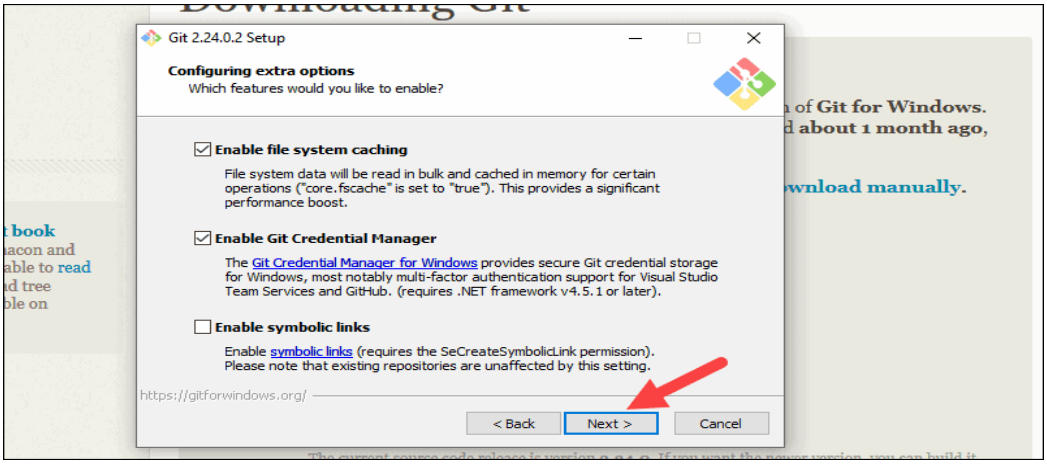
- Leave the default selection. Click **Next.**



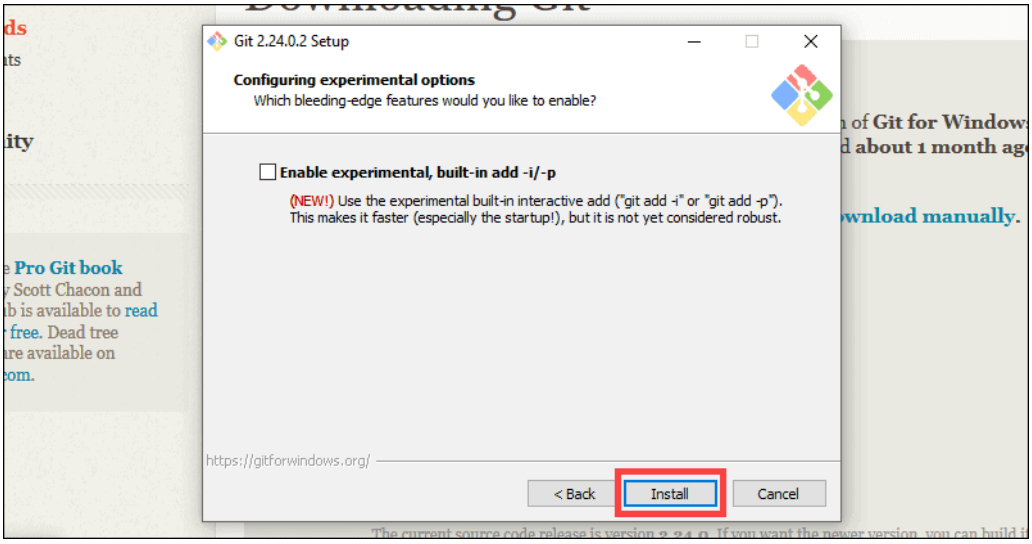
- Choose the Windows Emulator. Click Next.



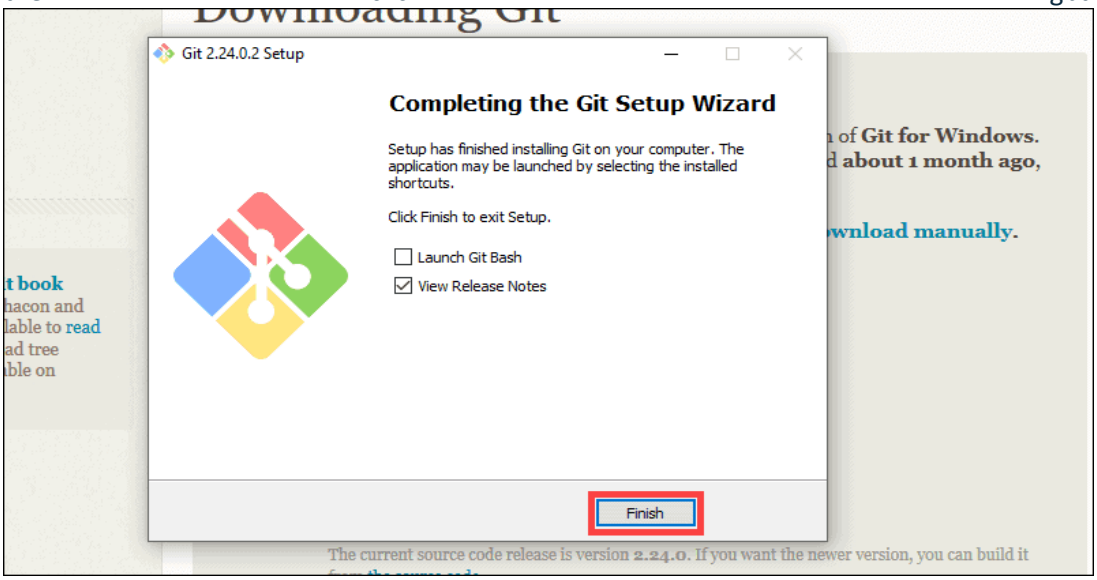
- Click Next



- Leave them experimental features unchecked and click **Install.**



- Once the installation is complete, tick the boxes to view the Release Notes or Launch Git Bash, then click gbtrbr



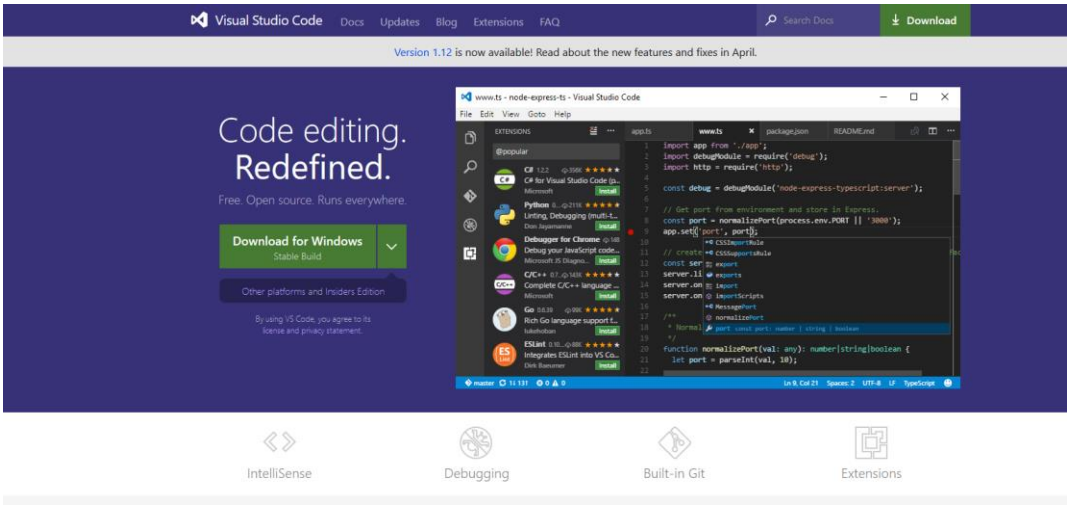
Now Open the command prompt and Configure your local Git installation to use your GitHub credentials by entering the following:

```
git config --global user.name "github_username"
git config --global user.email "email_address"
```

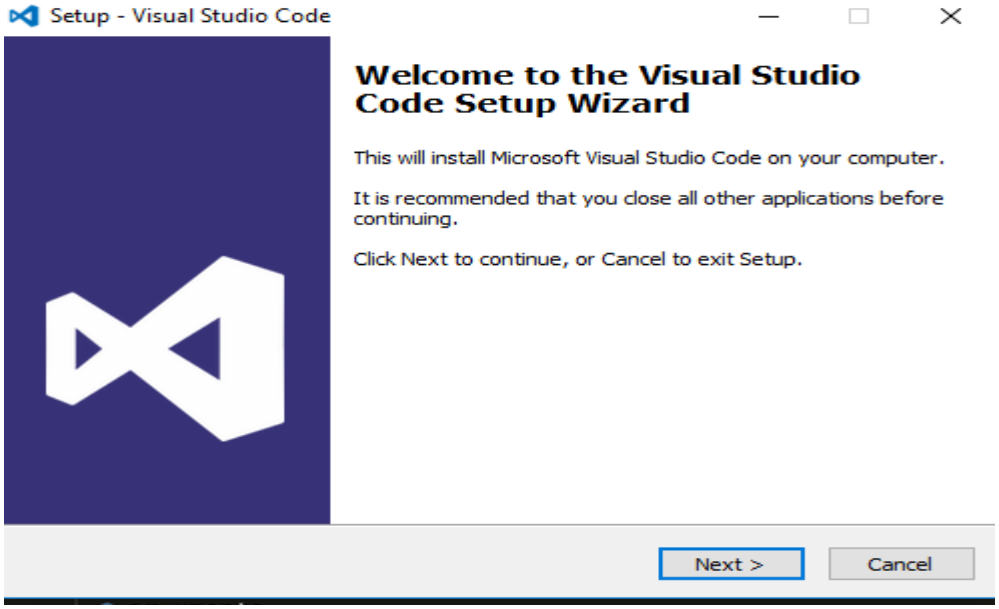
3.2 Download and Install Visual Studio Code for Windows

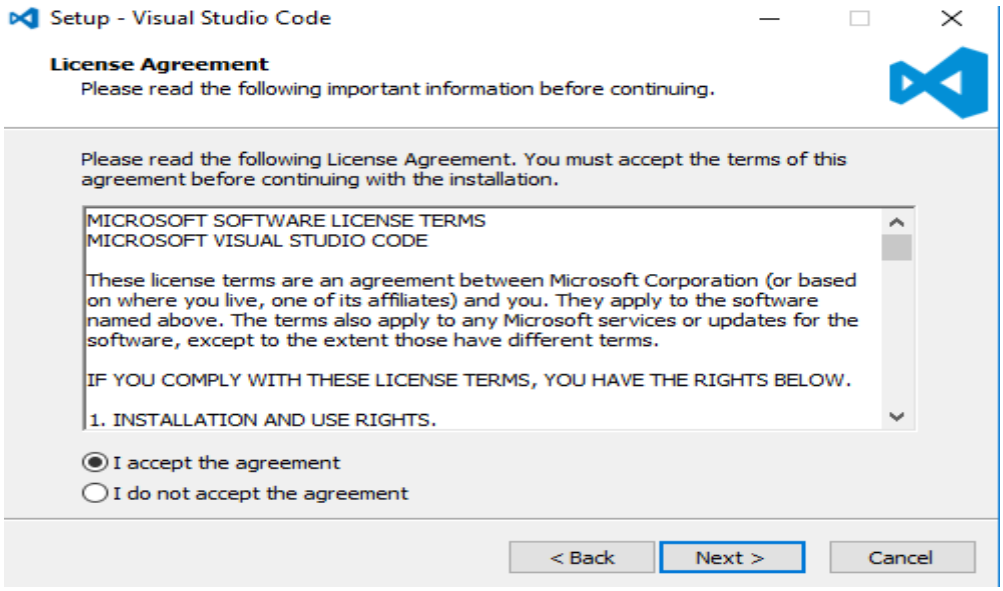
Visual Studio Code editor is an **open source** editor. So you can use it as **free** for your Ionic project development.

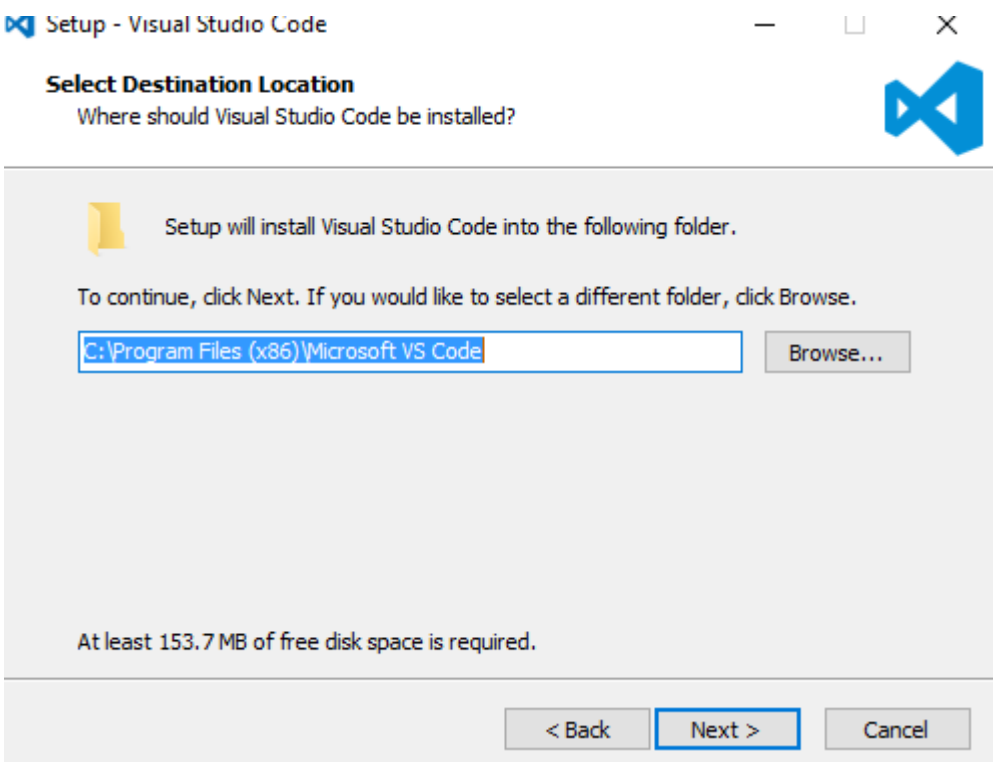
1. To download the Visual Studio Code editor, please go to the below link.
   https://code.visualstudio.com/

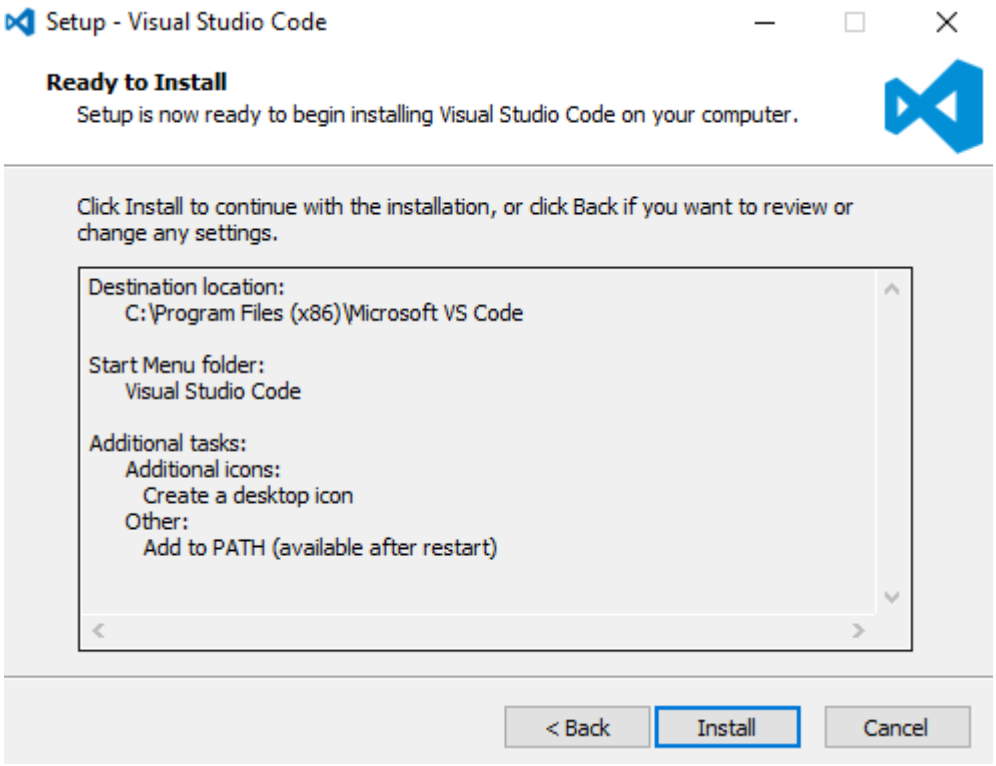


2. Click the download button to download the Visual Studio Code Editor.
3. It is the .exe file. So The installation is as usual windows standard installation. Click next-next.

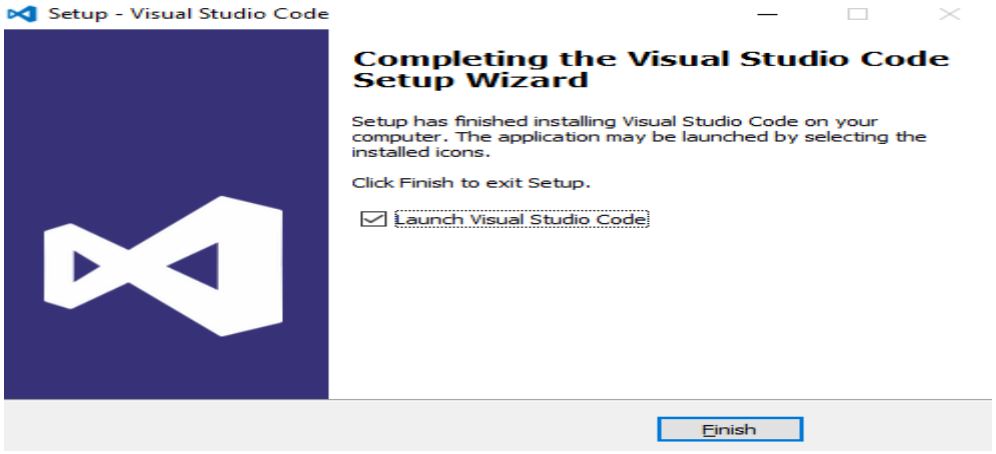



Setup - Visual Studio Code
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT VISUAL STUDIO CODE
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. They apply to the software named above. The terms also apply to any Microsoft services or updates for the software, except to the extent those have different terms.
IF YOU COMPLY WITH THESE LICENSE TERMS, YOU HAVE THE RIGHTS BELOW.
1. INSTALLATION AND USE RIGHTS.
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel


Setup - Visual Studio Code
Select Destination Location
Where should Visual Studio Code be installed?
Setup will install Visual Studio Code into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files (x86)\Microsoft VS Code
Browse...
At least 153.7 MB of free disk space is required.
< Back
Next >
Cancel



4. Once the installation is done, click the **Launch** option to open the **Visual Studio Code editor**



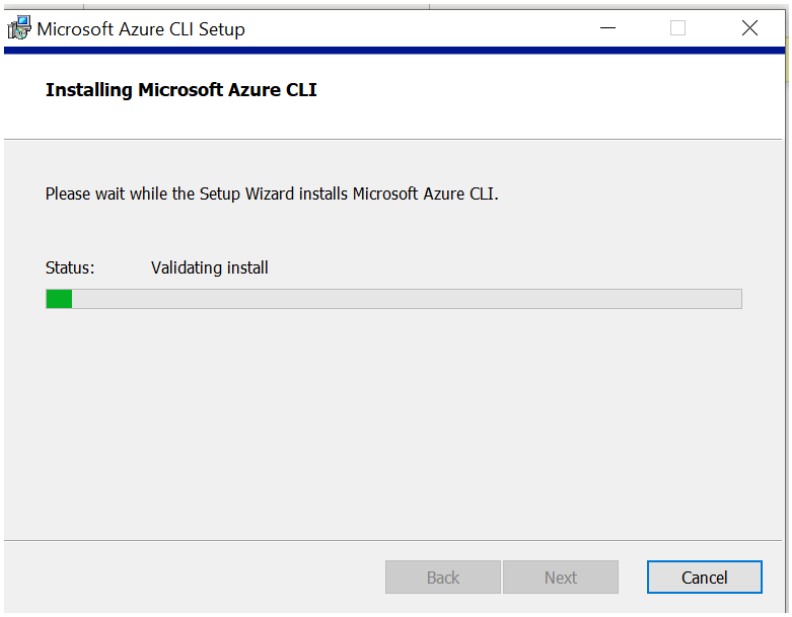
3.3 Setup Up Azure CLI

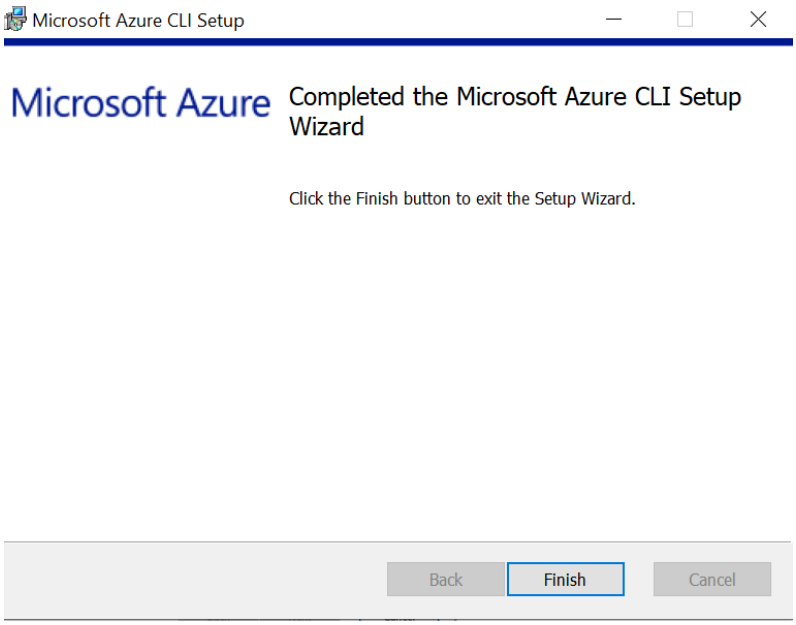
Click on below link to downkload the Azure CLI

https://aka.ms/installazurecliwindows

or https://docs.microsoft.com/en-in/cli/azure/?view=azure-cli-latest

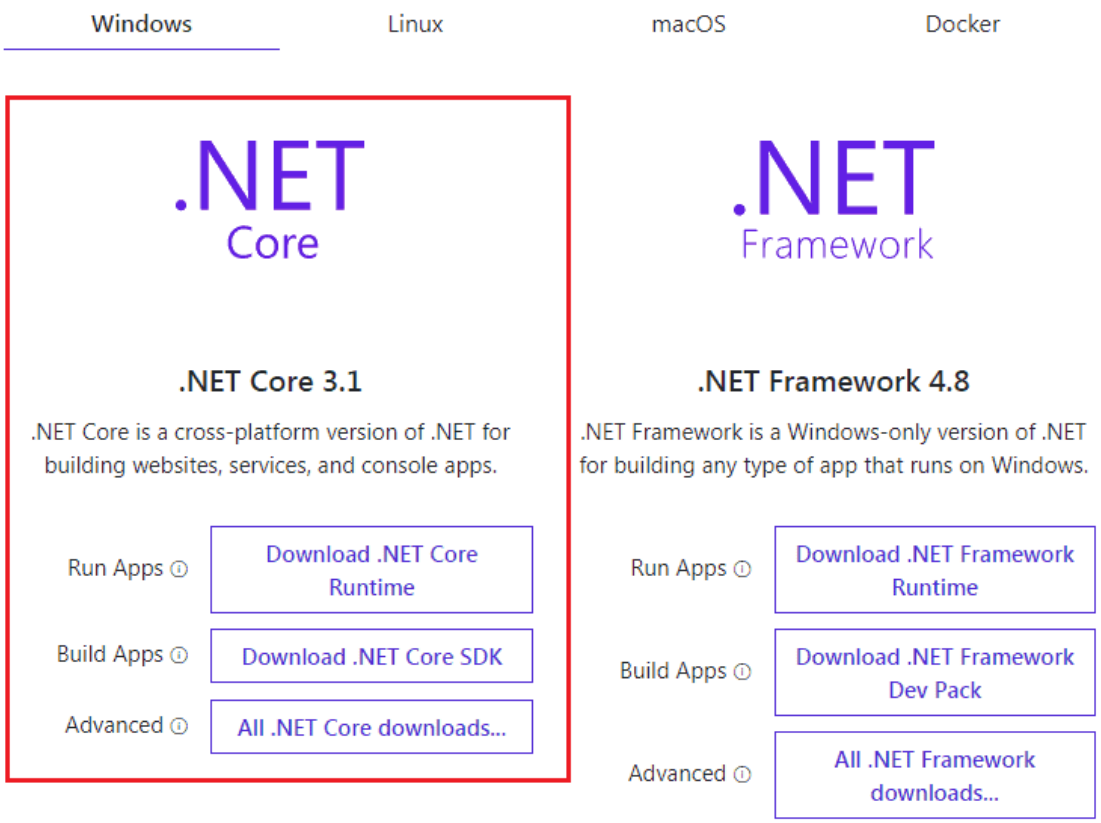

Microsoft Azure CLI Setup
Microsoft Azure
Please read the Microsoft Azure CLI License Agreement
MICROSOFT SOFTWARE LICENSE TERMS
Microsoft Azure CLI
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. They apply to the software named above. The terms also apply to any Microsoft services or updates for the software, except to the extent those have different terms.
IF YOU COMPLY WITH THESE LICENSE
I accept the terms in the License Agreement
Print
Back
Install
Cancel


Microsoft Azure CLI Setup
Installing Microsoft Azure CLI
Please wait while the Setup Wizard installs Microsoft Azure CLI.
Status: Validating install
Back
Next
Cancel

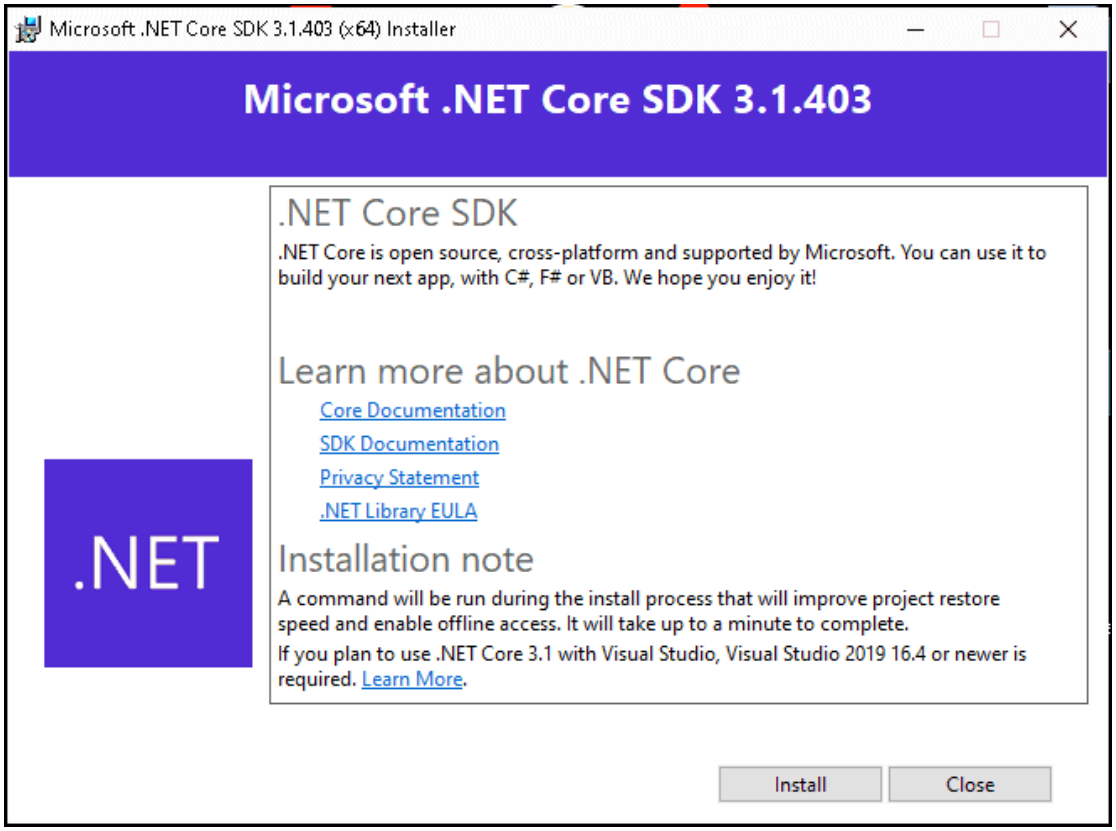


3.4 Install .NET Core

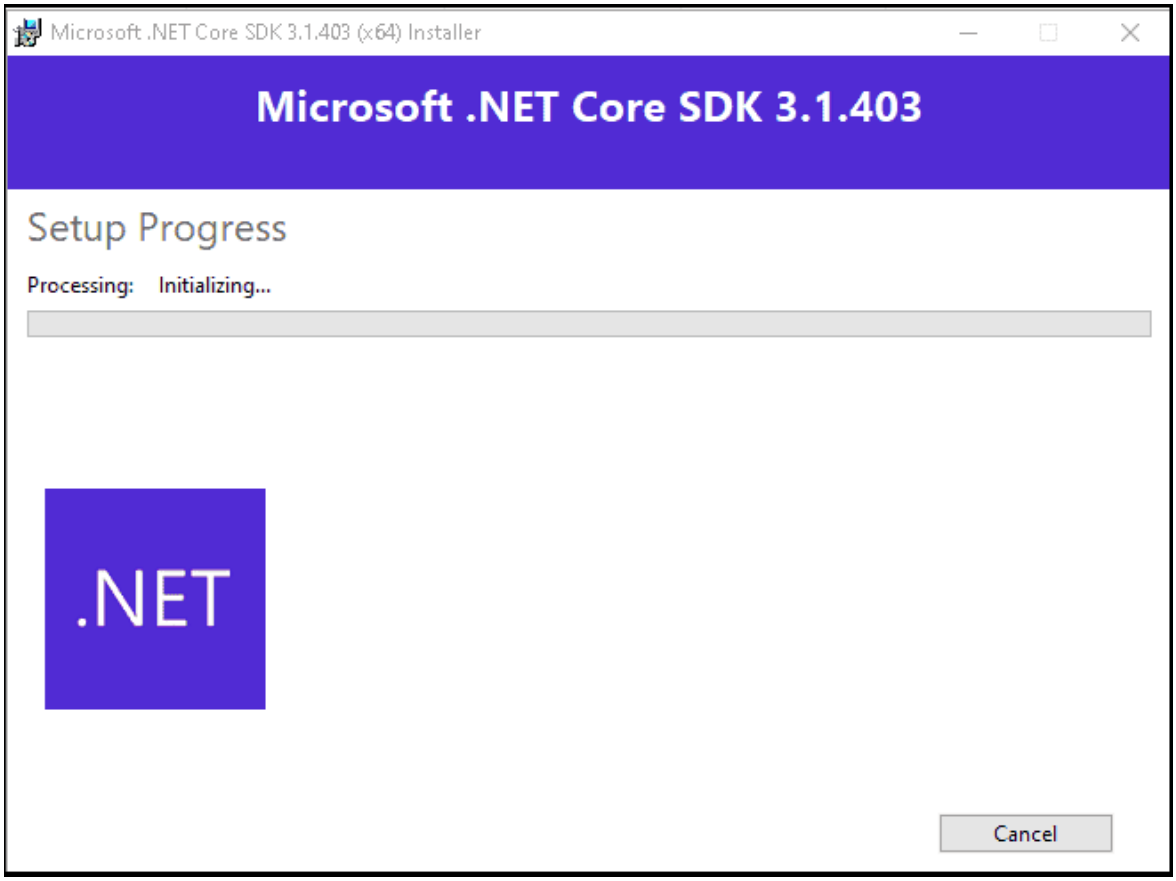
- To download the latest version of .NET Core, go to https://dotnet.microsoft.com/download and select DoteNet 3.1 SDK



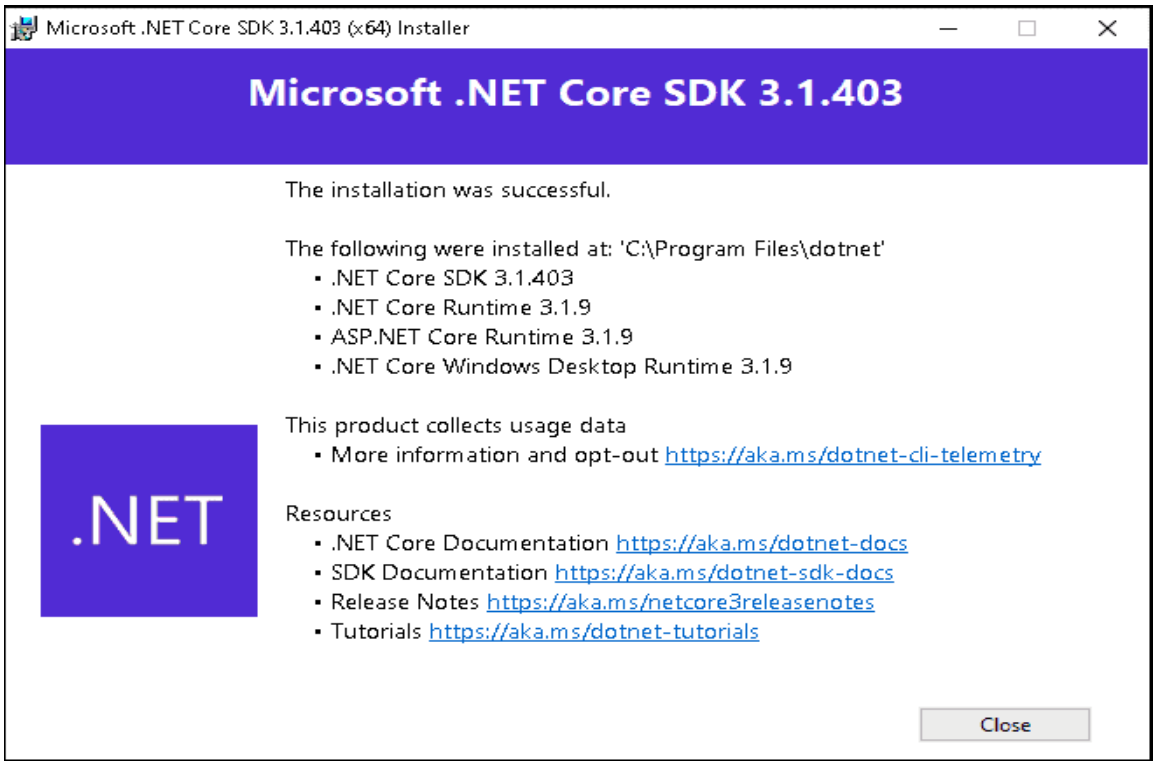
- Installing .Net Core is quite straight forward. Double click on the Downloaded Installer



- Click on Install to begin the installation.



- It will take some time. In the end, you will see the installation successful window. It will give you the details of the component installed.



- Path to **dotnet.exe** using where
  Where dotnet

- **dotnet --info** will give you more information is about the .Net core installation as shown below
  dotnet --info

```
C:\Users\Admin>dotnet --info
.NET Core SDK (reflecting any global.json):
 Version:   3.1.410
 Commit:    db62c6bbbb

Runtime Environment:
 OS Name:     Windows
 OS Version:  10.0.19042
 OS Platform: Windows
 RID:         win10-x64
 Base Path:   C:\Program Files\dotnet\sdk\3.1.410\

Host (useful for support):
  Version: 3.1.16
  Commit:  4c6b4aa257

.NET Core SDKs installed:
  3.1.410 [C:\Program Files\dotnet\sdk]

.NET Core runtimes installed:
  Microsoft.AspNetCore.App 3.1.16 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
  Microsoft.NETCore.App 3.1.16 [C:\Program Files\dotnet\shared\Microsoft.NETCore.App]
  Microsoft.WindowsDesktop.App 3.1.16 [C:\Program Files\dotnet\shared\Microsoft.WindowsDesktop.App]

To install additional .NET Core runtimes or SDKs:
  https://aka.ms/dotnet-download
```