# Power BI Developer Bootcamp Computer Setup Guide

**Setup Time**: 45-60 minutes

**Setup Overview**: These setup instructions walk through the steps required to configure a Windows PC or a virtual machine (VM) that will be used by students when working on the lab exercises for the **Power BI Developer Bootcamp**.
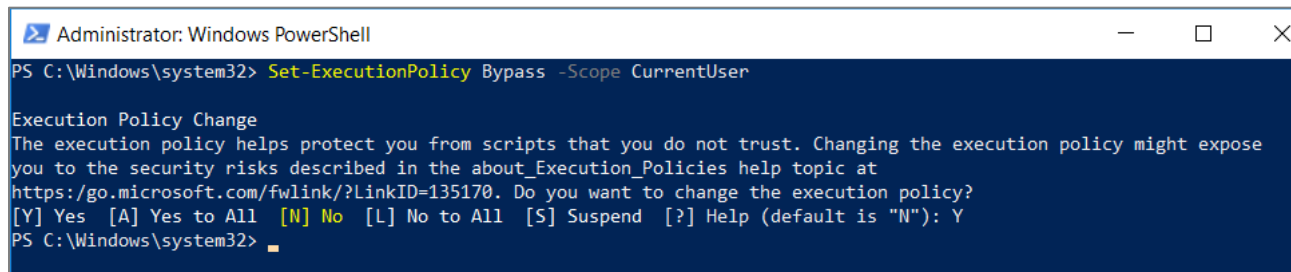
## Install and Configure Windows 10 or Windows 8.1

In this step you will install the Windows operating system.

1. Install the x64 bit edition of Windows.
   a) You can install either Windows 10 or Windows 8.1 to complete lab exercises.
   b) Apply all Windows updates.
2. Install the Chrome browser.
   a) You should be able to access the Internet with Chrome and at least one other browser (e.g. Edge, Internet Explorer).
3. Enable the execution of PowerShell scripts on your local PC.
   a) Open a PowerShell command shell running as Admin and type in and execute the following PowerShell command.

   ```
   Set-ExecutionPolicy Bypass -Scope CurrentUser
   ```

   b) When prompted to confirm to the operation, type **Y** and press **ENTER** to confirm that you want to enable script execution.



## Install the Azure AD PowerShell Modules

In this task you will install the PowerShell libraries required to work with Microsoft Azure resources.

**NOTE**: if you are running Windows 8.1, you must first install the Windows Management Framework 5.1 which is covered in step 1 below. If you are running Windows 10, you can skip step 1 and move to step 2 below.

1. If you are running Windows 8.1, download and install the Windows Management Framework 5.1using the following link.

   https://www.microsoft.com/en-us/download/details.aspx?id=54616

2. Install the Azure PowerShell modules by executing the following PowerShell commands one at a time in the PowerShell console.
   a) In the PowerShell console, execute the following command

   ```
   Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force
   ```

   b) Next, execute the following command to trust the PowerShell gallery.

   ```
   Set-PSRepository -Name PSGallery -InstallationPolicy Trusted
   ```

   c) Next, execute the following command to install the Azure Active Directory PowerShell cmdlets library.

   ```
   Install-Module AzureAD -AllowClobber -Force
   ```

   d) Finally, execute the following command to install the Power BI cmdlets library.

   ```
   Install-Module MicrosoftPowerBIMgmt -Force
   ```

## Install the GIT CLI Utility

In this exercise, you will install the **git** utility.

3. Launch a browser and navigate to the following link.

   <u>https://git-scm.com/download</u>

4. Download the installation files for git for Windows.



5. Run the installation program. When prompted, agree to the terms and accept all the default settings.
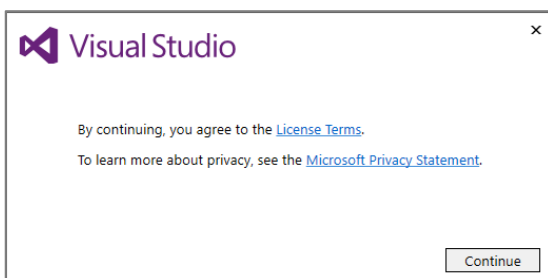


6. Wait until the installation is complete.

## Install Visual Studio 2017

In this exercise, you will install Visual Studio 2017 Professional. Note if you don't have access to Visual Studio 2017 Professional, you can complete all of the labs instead using the free version of Visual Studio 2017 community edition.

7. Obtain the installation software for Visual Studio 2017 Professional.

   a) If you don't have a copy, you can download the Visual Studio 2017 community edition using the following link.

   <u>https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&rel=15</u>

8. Click **Continue** to run the installation program for Visual Studio 2017.



9. Under **Workloads** tab in the **Windows** section, select the following workloads

a) Universal Windows Platform development (this is optional)

b) .NET desktop development (this is required)
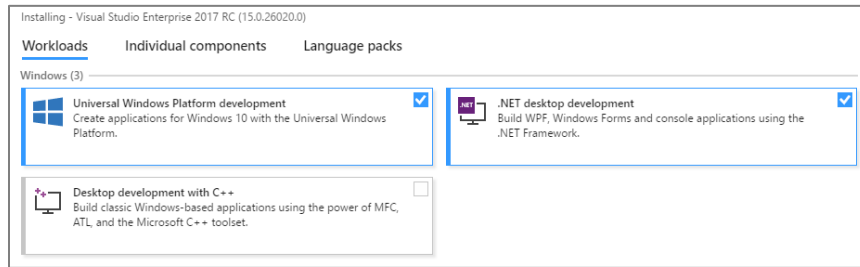


10. Under **Workloads** tab in the **Web and Cloud** section, select the following workloads

a) Web development (this is required)

b) Azure development (this is required)

c) Node.js development (this is optional)

d) Data storage and processing (this is optional)

e) Office/SharePoint development (this is optional)
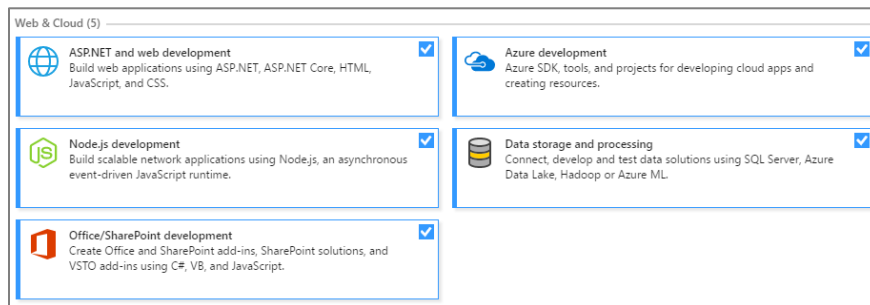


11. Move ahead in the installation program to the **Summary** section. Locate and click the Install button in the bottom right corner to begin the installation.
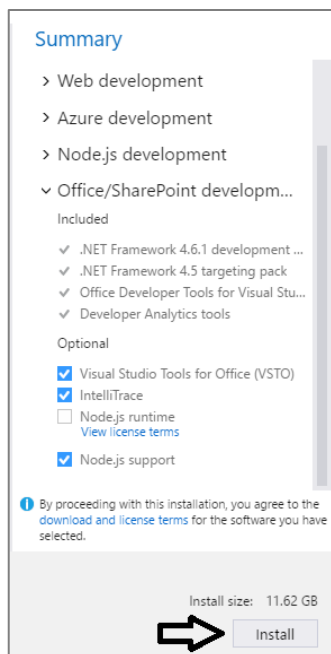
12. Instalation will take about 20-30 minutes. When the installation is complete, you will see the a page telling you that Visual Studio 2017 has been installed.
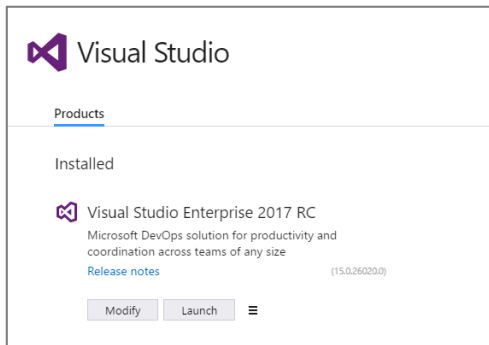


13. Launch Visual Studio 2017.

   a) When you see the **Welcome** screen, it will prompt you to sign into Visual Studio Online. However, there is no need for you to log onto Visual Studio Online. Instead, click the **Not now, maybe later** link at the bottom of the **Welcome** screen
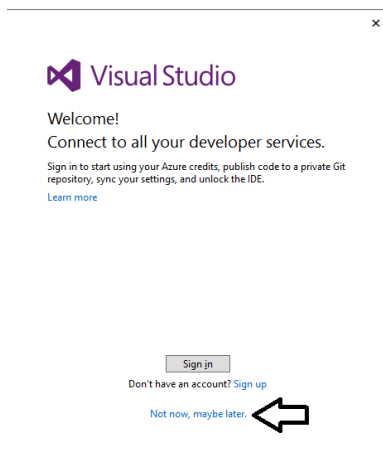


   b) On the next screen, select a Development Setting for the color theme and then click **Start Visual Studio**.
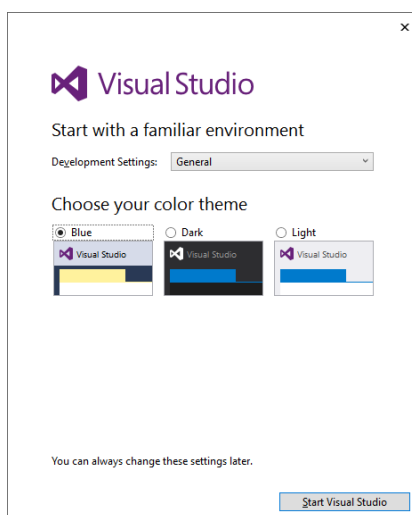


   c) Once Visual Studio has started, select the **File > New Project** command.

   d) On the left hand side of the **New Project** dialog, select **Installed > Templates > Visual C# > Office/SharePoint**.

e) Make sure you see the **SharePoint Add-in** project template. If you see the **SharePoint Add-in** project template, it means you have installed Visual Studio 2017 with the Office/SharePoint toos.
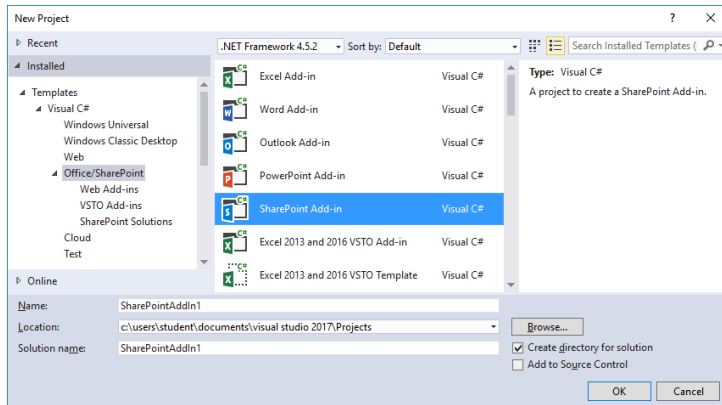


## Install Fiddler

In this exercise, you will install the Fiddler developer utility.

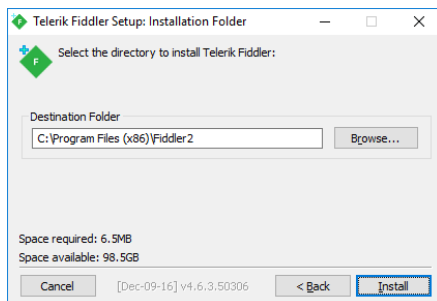14. Launch a browser and navigate to the following link.

    https://www.telerik.com/download/fiddler

15. Download the installation files for Fiddler.



16. When the Fiddler installation program starts, it prompts you to accept the licensing agreement. Click **I Agree**.
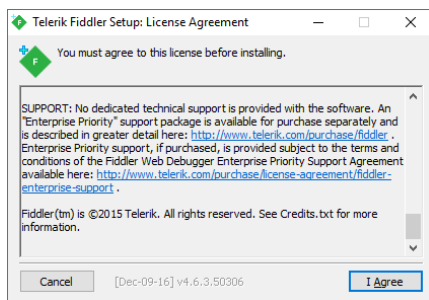


17. Next, click the **Install** button to run the Fiddler installation program.

18. When the Fiddler installation program completes, launch Fiddler from the Windows Start menu.
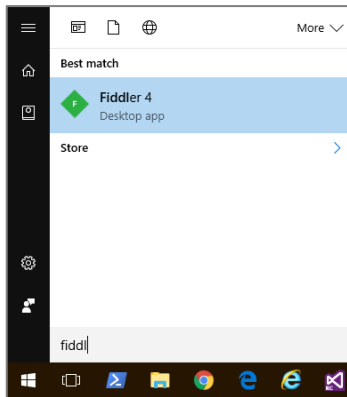


Steps 6, 7 and 8 only apply if you are using Windows 10. If you are using Windows 8.1, you can skip ahead to step 9.

19. When Fiddler starts for the first time, it prompts you with the **AppContainer Configuration** dialog. Click the **Cancel** button to dismiss the dialog and prevent this dialog from reappearing later.
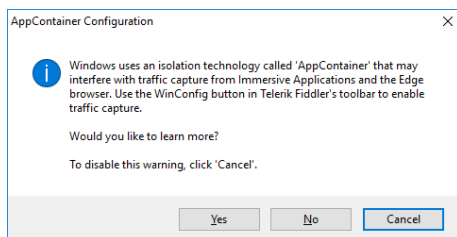


20. Once Fiddler has started, click the **WinConfig** button in the toolbar in the top left-hand corner of the Fiddler window to display the **AppContainer Loopback Exemption Utility** dialog.
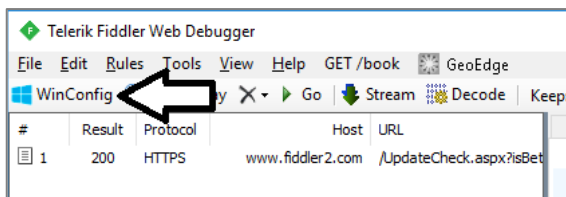


21. In the **AppContainer Loopback Exemption Utility** dialog, select Microsoft Edge on the left and then click **Save Changes**.
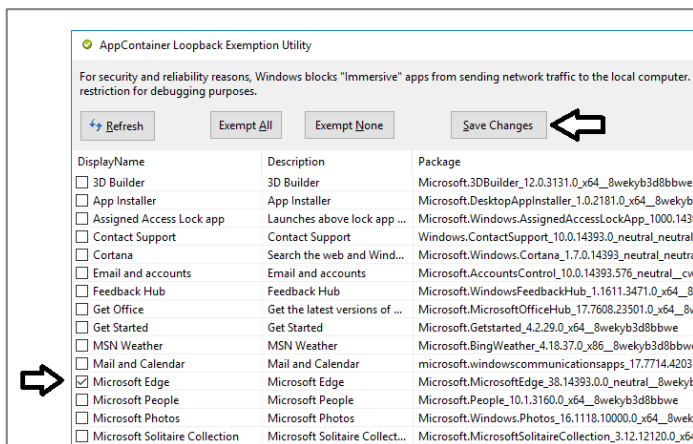
22. Configure Fiddler support inspecting HTTPS request that are using SSL.

a) Select the **Tools > Options…** command
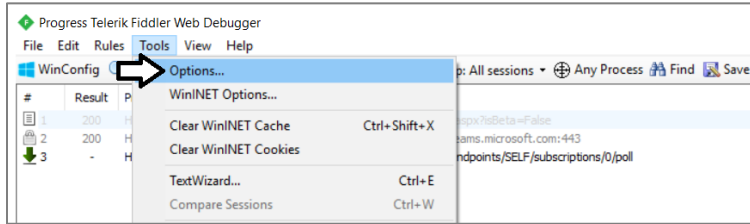


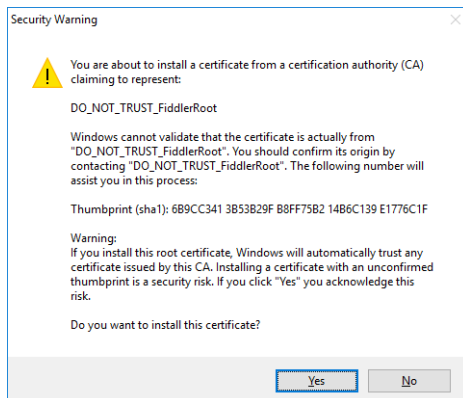b) On the **General** tab of the **Options** dialog, uncheck the **Notify me for updates on startup** checkbox.
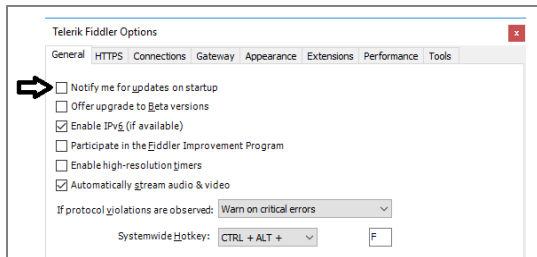


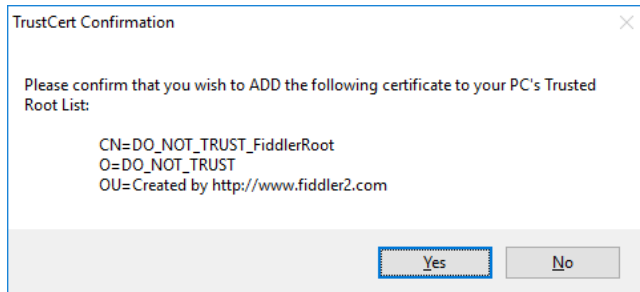c) On the **HTTPS** tab of the **Telerik Fiddler Options** dialog, check the **Decrypt HTTPS traffic** checkbox.
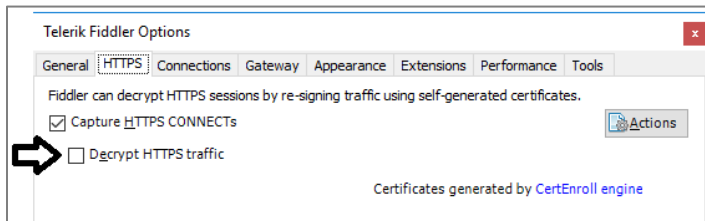


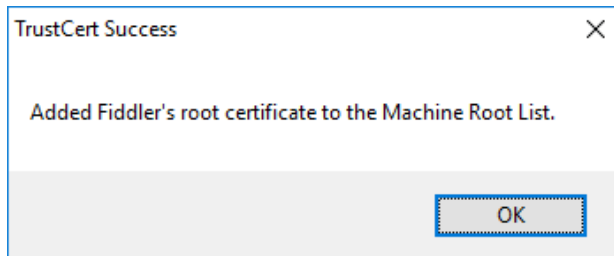d) Click **Yes** when prompted whether to **Trust the Fiddler Root Certificate?**



e) Click **Yes**, when you see the following dialog which asks **Do you want to install this certificate**.

f) Click **Yes** one more time when you see the **TrustCert Confirmation** dialog.



g) You should now see a dialog that confirms that Fiddler's root certificate has been added to the machine root list.



h) Select **Ignore server certificate errors (unsafe)** and then click **OK** to dismiss the **Options** dialog.
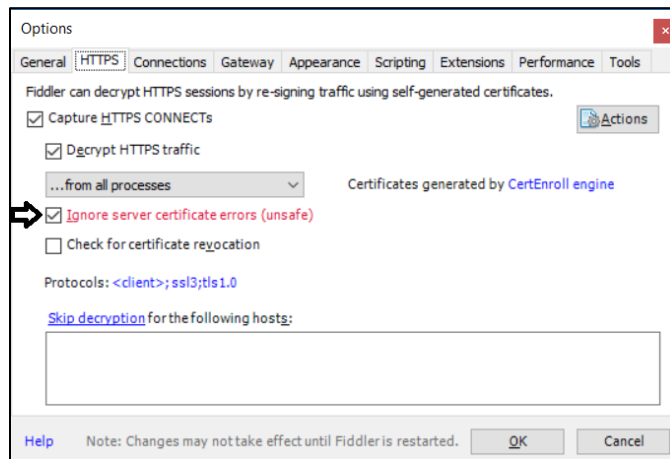


23. Test out Fiddler.

    a) Close and restart Fidler.

    b) Launch the Chrome browser and navigate to a URL with SSL such as https://google.com.

    c) Make sure you can use Fiddler to monitor HTTPS request.
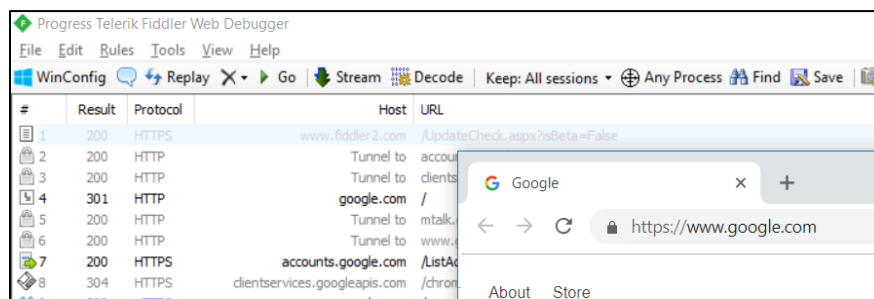
d) If you are using Windows 10, launch the Microsoft Edge browser and navigate to a URL with SSL such as https://bing.com.

e) Make sure you can use Fiddler to monitor HTTPS request.
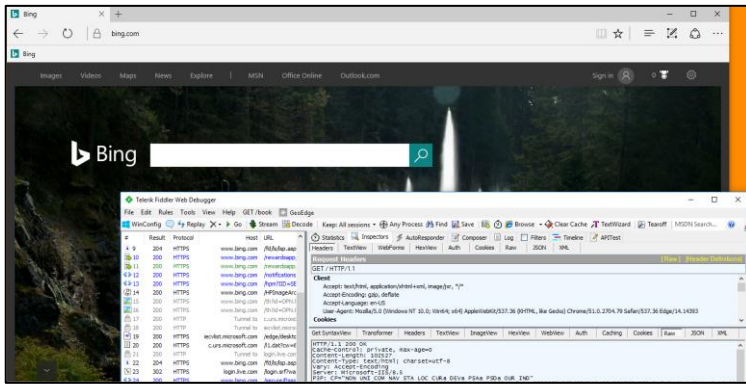


## Install Node.js Version

In this task, you will install Node.js.

24. Download the MSI file to install the latest release of Node.js version 8.

a) Navigate to the web page at the following URL..

```
https://nodejs.org
```

b) You should see a folder of files installation files similar to the folder shown in the following screenshot.



c) Click on the button to install the most recent LTS version of Node.JS.

d) Once you have downloaded **node-v10.x.y-x64.msi**, run it to begin the Node.js installation program.

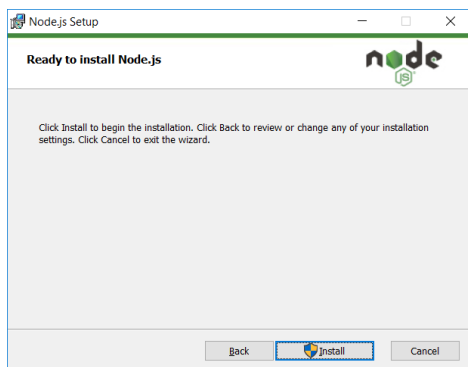e) When you see the Node.js Setup Wizard's Welcome screen, click **Next**.
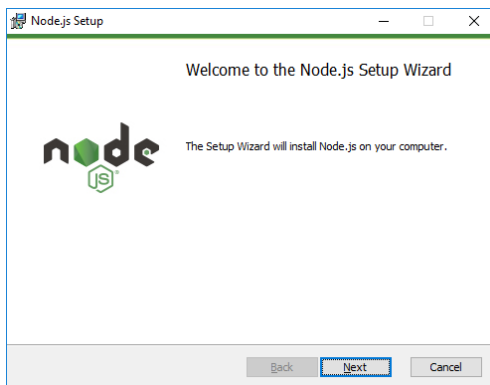


f) Agree to terms and click **Next**.

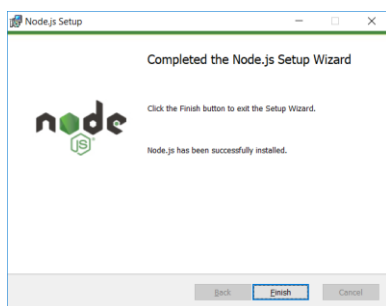g) Accept (or modify) the installation folder and click Next.
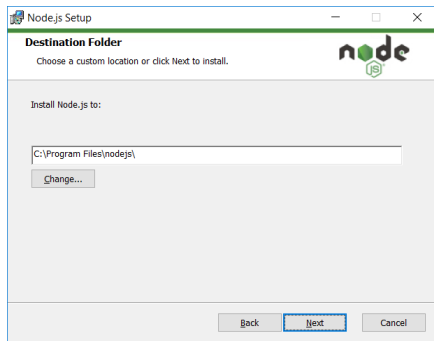
h)  On the **Custom Setup** page, accept the default setting and click **Next**.
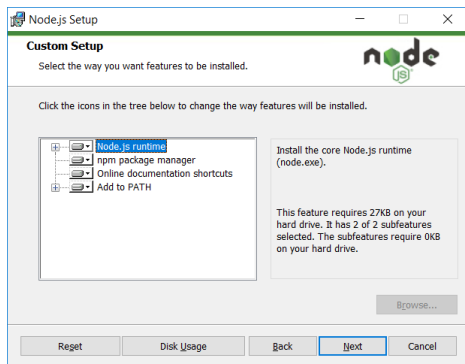


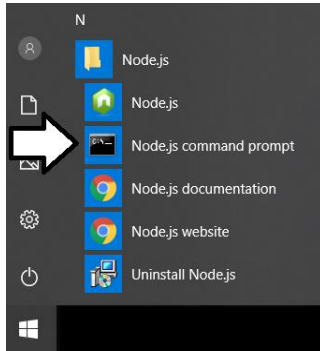i)  On the Ready to install Node.js page, click **Install** to begin the installation.



j)  Wait until the installation completes and then click **Finish**.
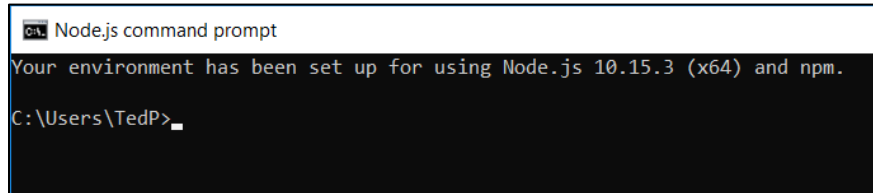


25. Launch the Node.js command prompt.

a)  In the Windows Start menu, locate and select the **Node.js command prompt**.

b) Verify the the Node.js command prompt launches without error and that the version number begins with an 8.



## Install Visual Studio Code

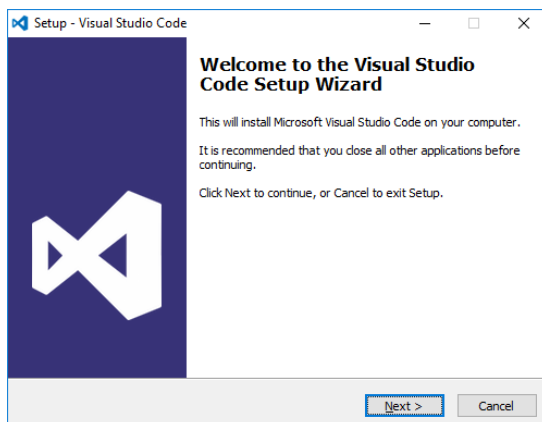In this setup task, you will install Visual Studio Code.

26. Launch a browser and navigate to the following link.
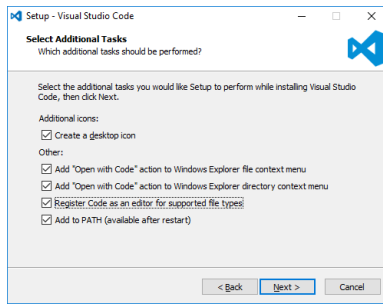
   https://code.visualstudio.com/download

27. Download the installation files for Visual Studio Code for Windows.



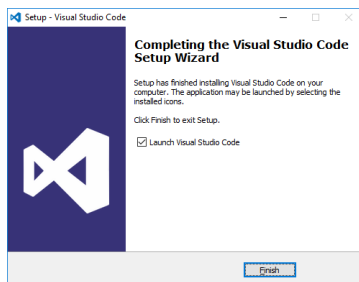28. Run the installation program for Visual Studio Code.



29. When you get to the **Select Additional Tasks** dialog, select all options and click **Next** to continue.
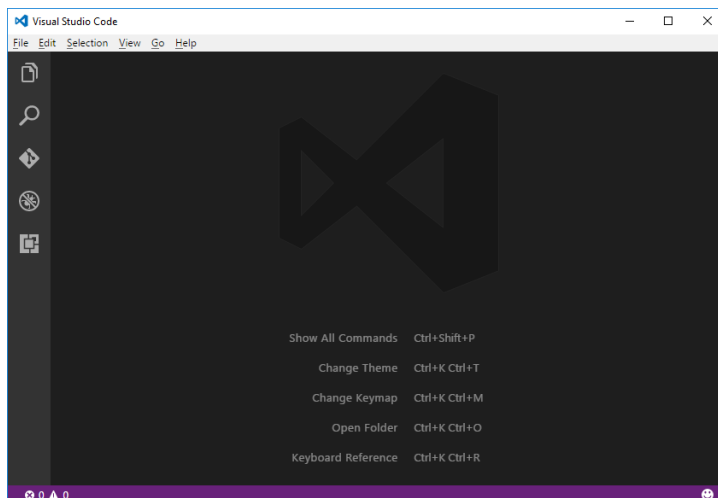
30. When you get to the **Ready to Install** dialog, click **Next** to continue.
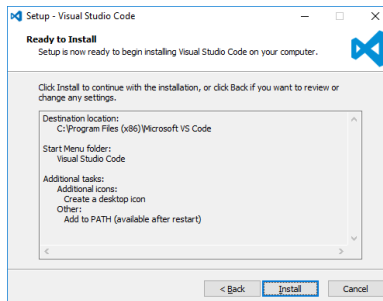


31. Move through the dialogs of the installation program until you reach the **Completing the Visual Studio Code Setup Wizard** dialog. Click **Finish**.



32. When the installation program completes, it should launch Visual Studio Code.
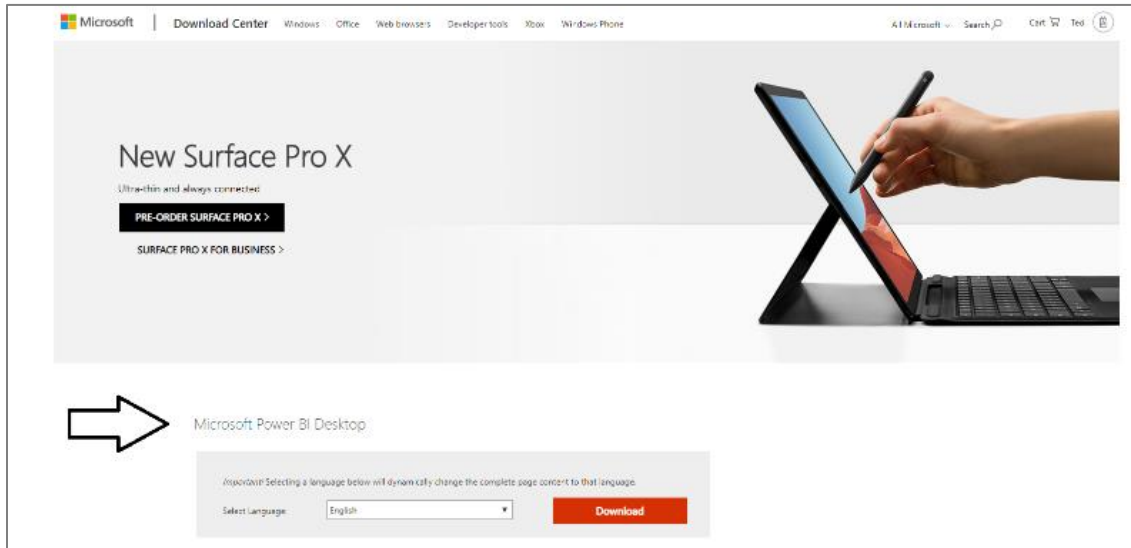
## Install Power BI Desktop

In this setup task, you install Power BI Desktop if you don't already have it installed or you need an updated version.

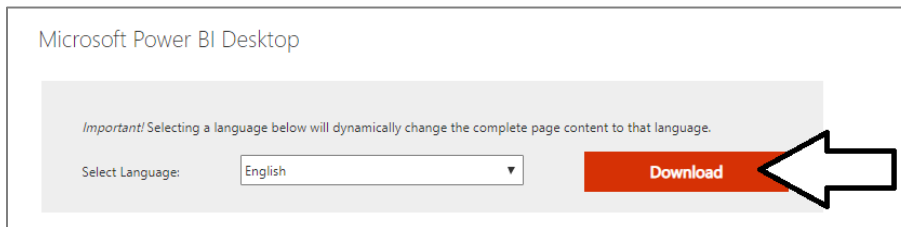1. Download the EXE installation file for Power BI Desktop.
   a) Using the browser, navigate to the following URL.

   [https://aka.ms/pbiSingleInstaller](https://aka.ms/pbiSingleInstaller)

   b) Move down the web page and locate the **Microsoft Power BI Desktop** section.



   c) Click the Download button to download the EXE-based installation program for Power BI Desktop.



   d) Download the 64-bit version. (If you are running a 32-bit version of Windows, select the other EXE without 64 in its name).
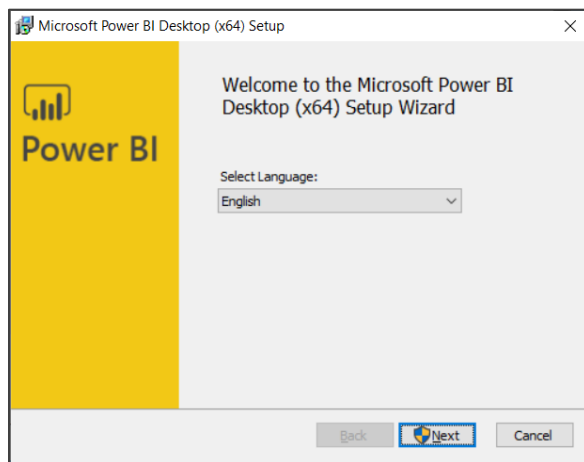   e) Click **Next** to download the installation file named **PBIDesktopSetup_x64.exe**.
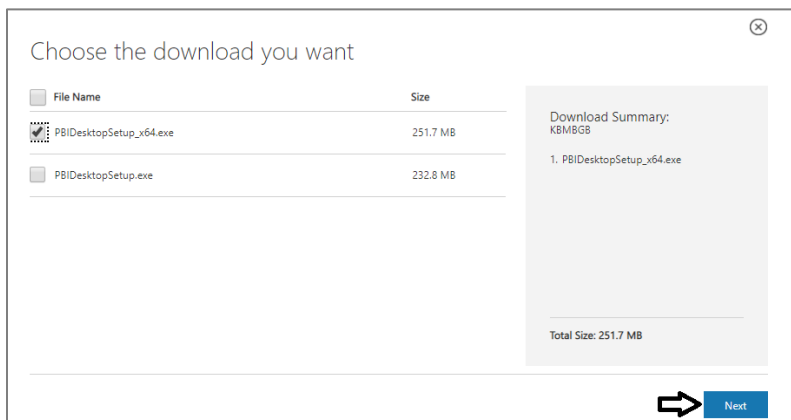


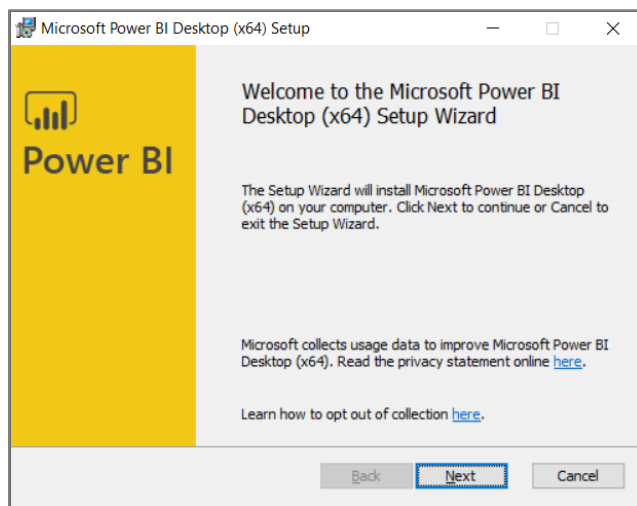   f) Wait until **PBIDesktopSetup_x64.exe** has finishing downloaded
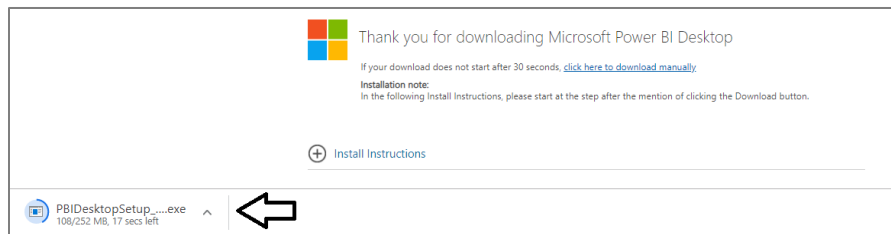
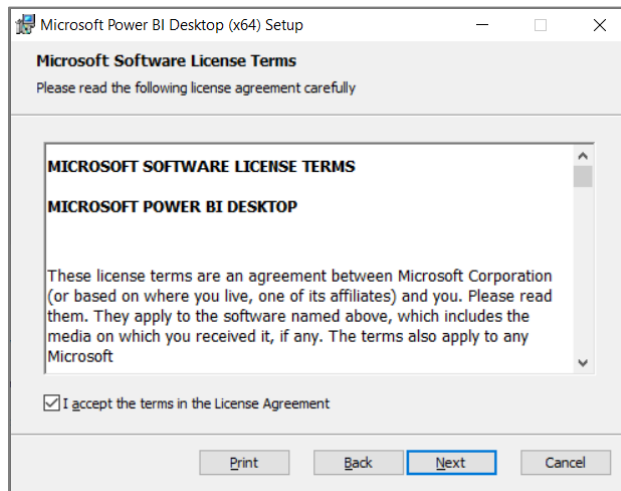2.  Select **Open** on **PBIDesktopSetup_x64.exe** to begin the installation of Power BI Desktop.
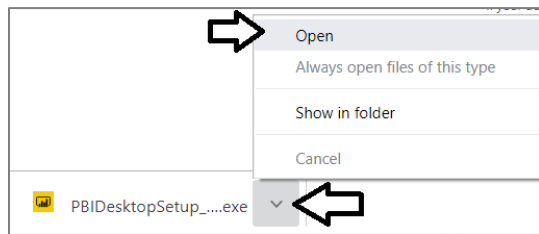


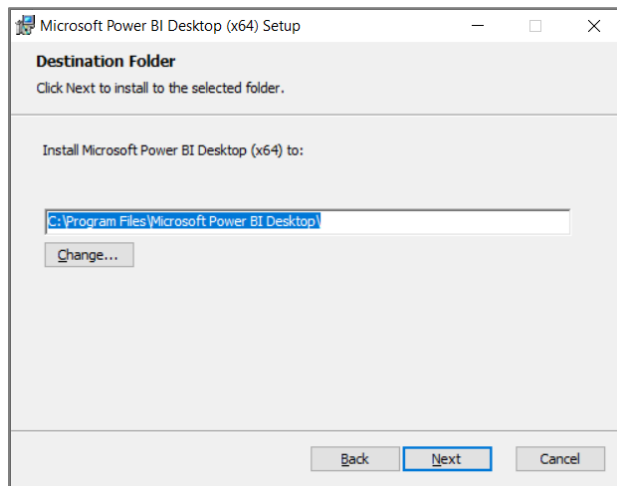a) When you see the Welcome screen, click **Next** to continue with the installation.
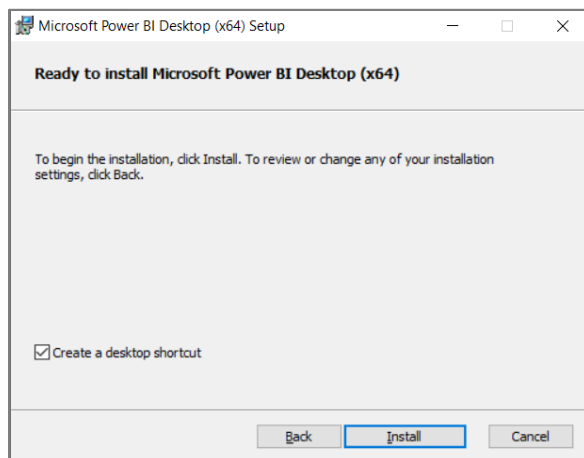


b) Click **Next** again to move past the Welcome screen.

c) Click the checkbox to accept the license agreement and click **Next**.



d) Accept the default location for the installation and click **Next**.



e) On the next screen, click **Install**.



f) When you see the **Completed the Microsoft Power BI Desktop Setup Wizard** screen, click **Finish** to launch Power BI Desktop.

g) When Power BI Desktop launches for the first time, it displays a Welcome screen as shown in the following desktop. Click the (**X**) button in the upper right corner to close this window.
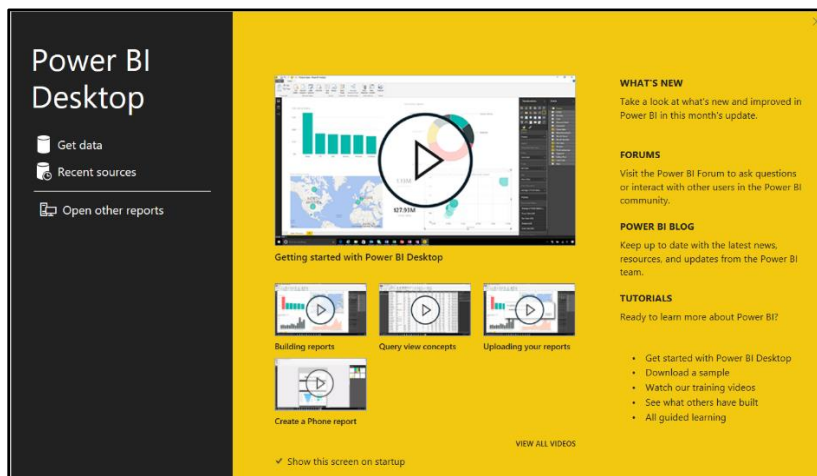


h) At this point, you should have Power BI Desktop running with a new, unsaved project as shown in the following screenshot.
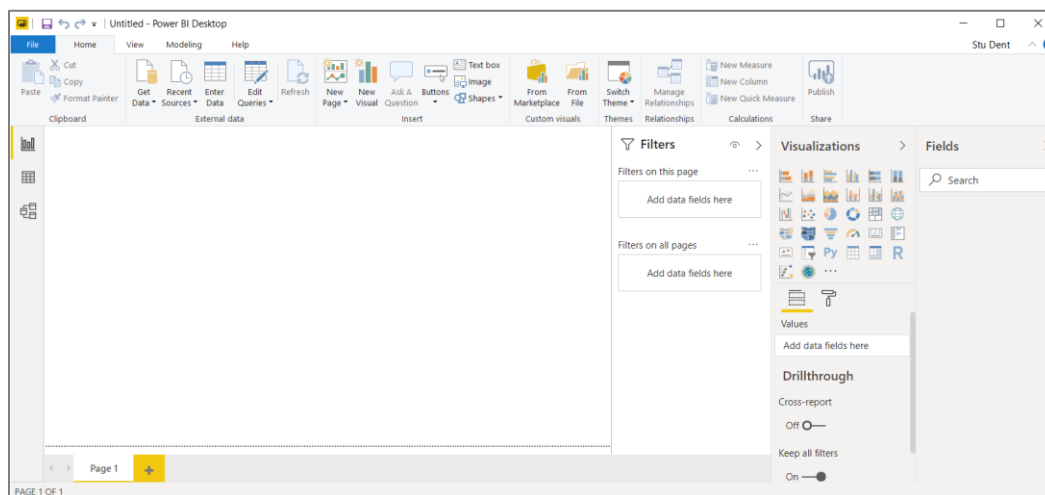


You have now finished the setup instructions for this training class.