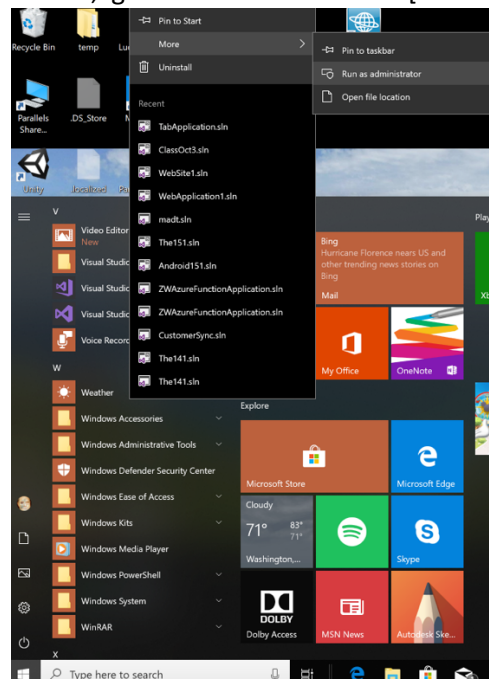


1. Visual Studio - What is it? [Visual Studio](#) is software package with an IDE(Integrated Development Environment) that is used to edit, debug, and build code. You can then publish this app using this tool.
  - a. Major Apps Supported for our purposes: we will create one of each of these in a later lab.
    - i. Cross-Platform Xamarin Applications: we have already done some of this.
    - ii. Console Applications - where the application run in black screen and contains no User Interface(UI).
    - iii. Platform Specific
      1. iOS, Android
    - iv. Class Libraries
      1. Code that we want to share with many of our projects. An example of this is the Xamarin XAML projects that we have in our Cross Platform applications. This Xamarin XAML project is shared between the iOS and Android Projects
  - b. Languages supported by Visual Studio : [Visual Studio Languages](#)
    - i. VB.NET
    - ii. [C#](#)
    - iii. F#
2. Microsoft with Visual Studio is in an Update release mode the is very [Agile](#). This is when they are usually developing in a cycle that updates to the software for Visual Studio is frequent and you should check these updates and install these updates regularly.
3. So with Microsoft releasing updates to this environment so often, how do we keep this tool updated?
4. Start Visual Studio by doing the following:
  - a. Click on the Windows Start Button
  - b. Locate Visual Studio in the list of programs.
  - c. When found, you want to start Visual Studio in Administrator Mode. Right click on Visual Studio, got to More and click on [Run as administrator]

i.



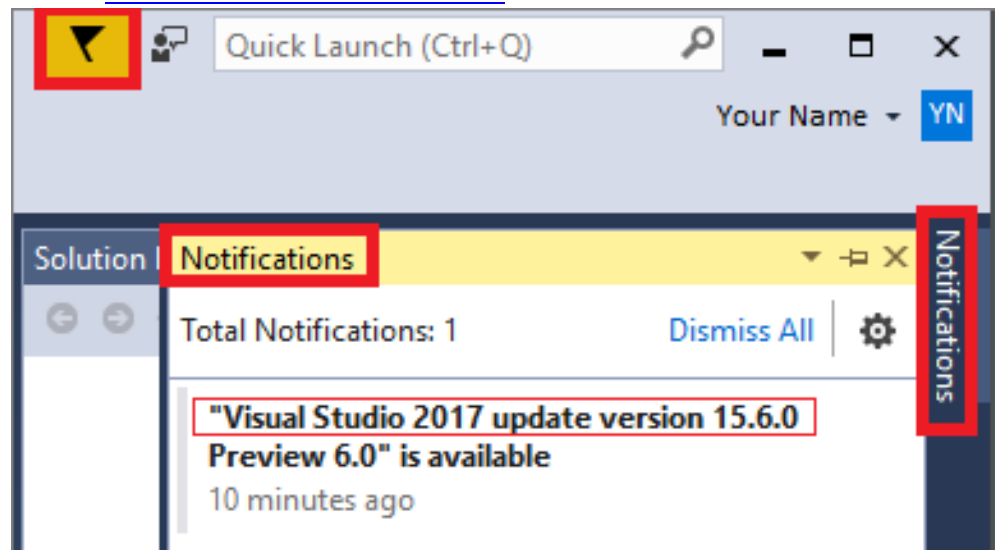
4. You will be prompted with the following



a.

b. Choose Yes

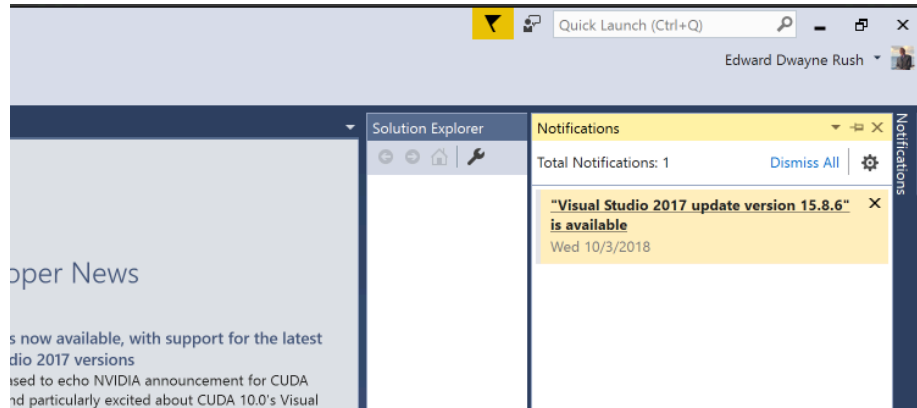
5. Visual Studio will Start. Sometimes, it may take a few minutes for any updates for the environment be available for your installation. However, when they do become available you will see an icon alert flag in the top right hand of the Visual Studio Environment. [Visual Studio Release Notification](#)



a.

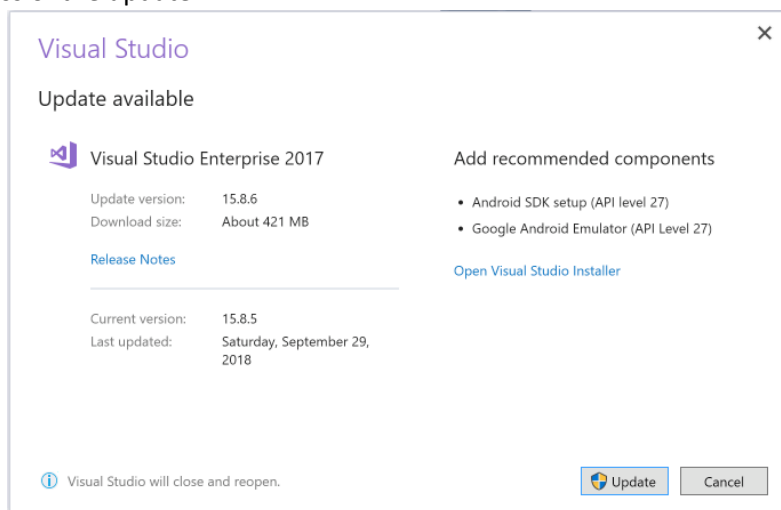
b. For our purpose you should have available to you an update **15.8.6 or higher**  
i. Click on this update

ii.

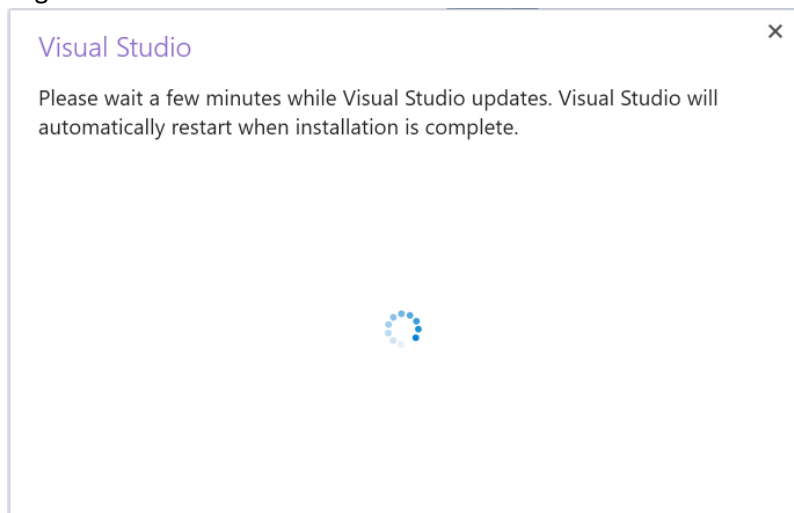


iii. Select "Visual Studio 2017 update version XXXX is available" to start the process of the update.

1.

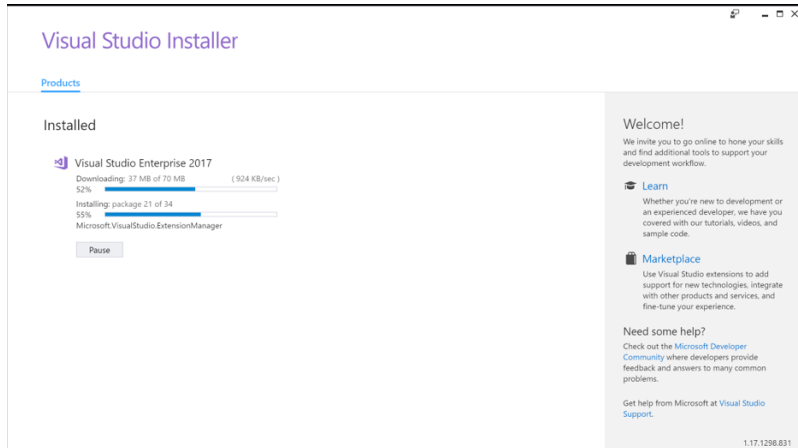


1. The installation process will begin



iv. The installation process will continue to completion.

1.



- vi. There are times more than one update is available. I suggest you accept these updates. You will be prompted to install these updates through a wizard driven environment, with detail instructions.
- vii. Once the installation is completed, you may be prompted with the following window.

1.

