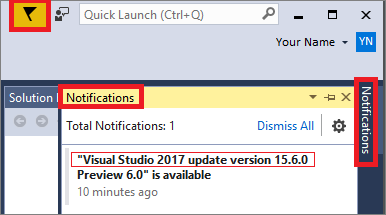
* 1. Visual Studio - What is it? [Visual Studio](https://docs.microsoft.com/en-us/visualstudio/ide/visual-studio-ide?view=vs-2017) is software package with an IDE(Integrated Development Environment) that is used to edit, debug, and build code. You can then publish this app using this tool.
     1. Major Apps Supported for our purposes: we will create one of each of these in a later lab.
        1. Cross-Platform Xamarin Applications: we have already done some of this.
        2. Console Applications - where the application run in black screen and contains no User Interface(UI).
        3. Platform Specific
           1. iOS, Android
        4. 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
     2. Languages supported by Visual Studio : [Visual Studio Languages](https://www.microsoft.com/net/languages)
        1. VB.NET
        2. [C#](https://docs.microsoft.com/en-us/dotnet/csharp/)
        3. F#
  2. Microsoft with Visual Studio is in an Update release mode the is very [Agile](https://www.scrumalliance.org/learn-about-scrum/what-is-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:
     1. Click on the Windows Start Button
     2. Locate Visual Studio in the list of programs.
     3. 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]
        1. Recycle Bin 
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           The151sln 
           Android 151 .sln 
           ZWAzureFunctionApplication.sln 
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           CustomerSync.sln 
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           Pin to ta! 
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           Windows Administrative Tools 
           Windows Defender Security Center 
           oft Store 
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           Cloudy 

* 1. You will be prompted with the following
     1. User Account Control 
        Do you want to allow this app to me 
        changes to your device? 
        Microsoft Visual Studio 2017 
        Verified publisher: Microsoft Corporation 
        File origin: Hard drive on this computer 
     2. Choose Yes
  2. 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 aleart flag in the top right hand of the Visual Studio Environment. [Visual Studio Release Notification](https://docs.microsoft.com/en-us/visualstudio/install/update-visual-studio?view=vs-2017)
     1. 
     2. For our purpose you should have available to you an update **15.8.6 or higher**
        1. Click on this update
        2. Solution Explorer 
           Quick Launch (Ctrl+( 
           Notifications 
           Total Notifications: 1 
           "Visual Studio 2017 
           is available 
           wed 10/3/2018 
           )per News 
        3. Select "Visual Studio 2017 update version XXXX is available" to start the process of the update.
           1. Visual Studio 
              Update available 
              Visual Studio Enterprise 2017 
              Update version: 
              Download size: 
              Release Notes 
              Current version: 
              Last updated: 
              15.8.6 
              About 421 MB 
              15.8.5 
              Saturday, September 29, 
              2018 
              Add recommende 
              • Android SDK setup ( 
              Google Android Eml 
              Open Visual Studio Inst 
           2. The installation process will begin**Visual Studio 
              Please wait a few minutes while Visual Studio updates. Visui 
              automatically restart when installation is complete. **
        4. The installation process will continue to completion.
           1. **Visual Studio Installer 
              Products 
              Installed 
              Visual Studio Enterprise 2017 
              Downloading: 37 MB of 70 MB 
              52% 
              Installing: package 21 of 34 
              Microsoft. Visual Studio.ExtensionManager 
              Pause 
              ( 924 KB/sec ) **
        5. There are times more than one update is available. I suggest you accept these updates. You will prompted to install these updates through a wizard driven environment, with detail instructions.
        6. Once the installation is completed, you may be prompted with the following window.
           1. 