Getting Ready

In order to install the bash shell command-line tool, you must have the **Windows 10 Creators Update** installed. In order to check if your PC meets the requirements:

1. Open **Settings**.

2. Click on **System**.

3. Click on **About**.

Under version, you must have at least version **1703**. If not, you must update your PC.

Installing Bash shell command-line tool for Windows 10

1. Open **Settings.**

2. Click on **Update & security.**

3. Click on **For Developers.**

4. Under "Use developer features", select the Developer mode option to setup the environment to install Bash.

5. After all the components are installed, you will need to restart your computer.

6. Next, open the **Control Panel.**

7. Click on **Programs.**

8. Select **Turn Windows features on or off.**

9. Scroll down in the popup window and check the box for **Windows Subsystem for Linux(Beta)**.

   - *On more recent versions of Windows, this feature is no longer beta.*

10. More components will install on your computer, after which select the popup **Restart Now.**

11. After reboot, click **Start** and search for *bash.exe*. Press enter or click to open the bash window.

12. The command prompt will then open. Press 'y' to install bash. You will then be prompted to create a UNIX account. **Remember this info!**

    - *If your **Windows Subsystem for Linux** was not marked as beta, you will receive the following message:*

      Windows subsystem for Linux has no installed distributions. Distributions can be installed by visiting the Windows Store: https://aka.ms/wslstore

      Open the **Windows Store**. Search for and install **Ubuntu.** Repeat step 11.

Using the Bash shell

- To access the bash shell tool, simply open a command prompt and type **bash**. While it isn't designed to run Linux graphical applications, most UNIX commands will work letting you run programs in a Linux environment without the overhead of a virtual machine.

- The tool's home directory is placed where it was installed so I would recommend adding an alias called **home** to making navigate through your directory eaiser. To do so, use the command **vim** **~/.bashrc** and add this line to the end of the file:

  ```
  alias home="cd /mnt/c/Users/[Your Windows Username]"
  ```

- From now on you can simply type "**home**" on the command-line to be redirected to your home directory

Installing Python

- Check to see if python3 is already installed using:

  ```
  python3 --version
  ```

- If it is, great! Else, use the command:

  ```
  sudo apt-get install python3
  ```

Your should have everything you need to get started.