Booting up and Qiime access

Upon boot up of the computer press F11

This will then send you to a secondary screen where you will select ubuntu

The select \*ubuntu

It will then launch the (WSL) Windows Subsystem for Linux

login

Open the terminal enter the line sudo -i

This will open the root system where by then you will enter your password, it does not show on terminal so just select enter once you have typed your password

The line conda info –envs will allow you to see all environments within the miniconda that has been installed

To run an environment enter conda activate ‘enviroment name’

Short cut copy this line and press enter conda activate /root/miniconda3/envs/qiime2-2022.2

This will then allow access into qiime

Qiime –help will show you all installed plug-ins and actions

From there you can enter qiime ‘directory’

If you need help with a certain part for example qiime demux emp-single –help

This will go into the help you learn about his specific sub-system with in qiime

Why is Qiime important and the purpose of this WSL (Windows Subsystem for Linux)

Installation of Ubuntu from the USB dual boot

Plug in the USB containing the Ubuntu dual boot before powering on the computer

When the screen shows a symbol of the brand press F11

When a screen pops up to select boot device Select the USB to boot up

Select try to install Ubuntu

It will load and ask if you would like to try Ubuntu or install Ubuntu, select install ubuntu

Make sure language and time are correct as windows pop up asking for this information

Connect to wifi

Do not select anything outside of the normal functions already applied

Make sure that when it says installation that you have selected Install Ubuntu alongside Windows Boot Manager

A window will pop up before installing saying “Write previous changes to disc and continue” select continue

Select the time zone you are in

When asking for a username I used the name of the computer “MonmouthVR5” for example and I keep the same password as the one on the computer already (PW: …..)

It will then begin to install

Downloading Miniconda

<https://varhowto.com/install-miniconda-ubuntu-20-04/>

This website gives you the 3 command lines to download miniconda onto a linux operating system

Following this you can simply use the command lines offered by the qiime2 install page

<https://docs.qiime2.org/2022.2/install/native/#install-qiime-2-within-a-conda-environment>

This will have you update miniconda

Install wget

And install qiime2 for any operating system you are working on

Coding Language (Commands and command lines)

conda deactivate will bring you back to the base root ststem

ls = list

cd = change directory

cd .. = go back one directory

mkdir “name of new directory” = creating a new directory

cd ~name = brings you to the exact directory named

chmod 777 ‘file/folder name’ = will unlock a locked file or folder (must be with in the directory containing the file or folder)

chown owner-name file-name = will change ownership of a file or doc

pwd = print working (i.e. current) directory

 nano = open a text editor

tree = visualize directories recursively

mv old-path new-path = move or rename a directory or file

rm filepath = remove a file (permanent)

rm -r directory-path = remove directory (permenant)

GG-Files

<https://docs.qiime2.org/2022.2/data-resources/#taxonomy-classifiers-for-use-with-q2-feature-classifier>