Installing QIIME

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All of the code in this page is meant to be run on the command line.

Using QIIME on MSI

1. Connect to MSI using Terminal on Mac/Linux, or putty on Windows, download here: http://www.putty.org/

```
ssh yourusername@login.msi.umn.edu
```

2. Log in to an interactive node, making sure you have enough time and memory

```
isub -n nodes=1:ppn=4 -m 16GB -w 24:00:00
```

5. Load the QIIME module

```
module load qiime/1.9.1
```

Helpful tips:

This link shows you the options for different queues and resources at MSI: http://msi-riss.readthedocs.org/en/latest/msi-queues.html

This link shows current usage of queues at MSI, updated every 15 minutes: https://s3.msi.umn.edu/pbsnodes/index.html

Installing QIIME on Linux

Tested on Ubuntu MATE 15.10

```
# system dependencies
sudo apt-get install build-essential python-dev python-pip

# Get ready for matplotlib
# http://stackoverflow.com/questions/20533426/ubuntu-running-pip-install-gives-error-the-following-requ
sudo apt-get install libfreetype6-dev
```

```
# Get ready to install numpy and scipy
# http://stackoverflow.com/questions/11114225/installing-scipy-and-numpy-using-pip
sudo apt-get install libblas-dev liblapack-dev libatlas-base-dev gfortran

pip install numpy
pip install qiime

# Note: on my installation, the QIIME binaries were placed in $HOME/.local/bin/
# so I added that dir to my PATH environment variable:
echo "export PATH=\$HOME/.local/bin:\$PATH" >> ~/.bashrc
echo "export PATH=\$HOME/.local/bin:\$PATH" >> ~/.bash_profile

# restart terminal then test:
print_qiime_config.py -h
```

Installing QIIME on Mac using macgime

Tested on Mac OSX El Capitan 10.11.3

```
# extract file
tar xvzf MacQIIME_1.9.1-20150604_0S10.7.tgz

# enter the directory
cd MacQIIME_1.9.1-20150604_0S10.7

# For El Capitan only (not earlier mac OS versions),
# Download the custom install script shown here, and follow the instructions:
https://groups.google.com/d/msg/qiime-forum/N2aZIPrsb_o/SdHXBIylCAAJ

# run the install script.
# it should request your administrator password.
./install.s

# Try it out
macqiime
print_qiime_config.py
```

Using QIIME virtual machine on Windows/Mac/Linux

- 1. Download and install VirtualBox: https://www.virtualbox.org/wiki/Downloads
- 2. Download and open the QIIME virtualbox image: http://qiime.org/install/virtual_box.html
- 3. Follow instructions at http://qiime.org/install/virtual_box.html
- 4. Note: to start the QIIME virtual machine you will need to run VirtualBox, and create a "new" virtual machine. The option for "Type" is "Linux". The option for "Version" should be "Ubuntu (64 bit)". If you only see 32-bit options, then visit this web page and try the fix: http://www.fixedbyvonnie.com/2014/11/virtualbox-showing-32-bit-guest-versions-64-bit-host-os. A similar solution is described here: http://giime.org/install/virtual box.html
- 5. Once you have the virtual machine running, you need to make sure the internet is working, that you can cut-and-paste text from your native OS to the virtual machine, and that you can share files between your native OS filesystem and the virtual machine. This means first installing the "Guest Additions",

Next steps

Now try running QIIME as described here: First steps with QIIME