Project 2

In this assignment, you will learn some basic SDN programming on the [Pyretic](#) platform, using the same VM from assignment 1.

1. Read the [Pyretic Documentation](#)

2. Clone the pyretic repo to your VM

   ```
   $ git clone https://github.com/frenetic-lang/pyretic.git
   ```

   ```
   $ sudo pip install networkx bitarray netaddr ipaddr pytest ipdb sphinx
   pyparsing==1.5.7 yappi
   ```

   ```
   $ sudo gem install Jekyll
   ```

3. Patch asynchat Python dependency

   ```
   $ wget https://raw.github.com/frenetic-lang/pyretic/master/pyretic/backend/patch/asynchat.py
   ```

   ```
   $ sudo mv asynchat.py /usr/lib/python2.7/
   ```

   ```
   $ sudo chown root:root /usr/lib/python2.7/asynchat.py
   ```

4. Setup your environment variables EITHER by adding the following lines to end of .profile:

   ```
   export PATH=$PATH:$HOME/pyretic:$HOME/pox
   ```

   ```
   export PYTHONPATH=$HOME/pyretic:$HOME/mininet:$HOME/pox
   ```

5. Implement a [simple mac learning module.](#) To run your pyretic module, use the following command:

   ```
   pyretic.py -m p0 --use_pyretic pyretic.tutorial.of_tutorial
   ```

6. Write a simple monitoring module that counts all packets going to or leaving host 1

Submission

Submit your code in a zip or tarball file to Canvas.

DUE: Nov 12th 11:59 pm ET