

PROBLEM 5 – READ-ME FILE FOR SCRIPT “QUES5.py”

The python script is attached in the submission folder. (QUES5.py is the name of the script)

HOW TO RUN THE SCRIPT:

STEP1:

Before running the script ensure that module “paramiko” is present on the host that you are executing this script from.

If not, please execute the following commands to install pip and further install the modules using pip.

- sudo apt-get install python-pip
- pip install paramiko

STEP2:

Use python 2.7 to run this script.

Sample command to execute:

python QUES5.py <IP address> <username> <password>

STEP3:

After you run the command, script would ask the user to enter one of the following :

IP

MAC

TYPE

This goes on continuously until user wishes to quit. User needs to enter “quit” to break from the loop.

OUTPUT:

On entering IP – Output will show all the interface names and their corresponding IP address.

On entering MAC – Output will show all the interface names and their corresponding MAC address.

On entering TYPE – Output will show all the interface names and their corresponding Interface types.

Sample output can be seen from the screenshot below. (Password has been hidden)

```
uschatto@vm17-99:/afs/unity.ncsu.edu/users/u/uschatto/SNM_LAB1$ python Ques5.py 152.1.0.168 'uschatto' 'XXXXXXXXXX'
User wishes to see the details of the host with IP address 152.1.0.168
Enter your choice IP? MAC? TYPE? .. Press Quit to exitIP
1) Interface Name [lo] - IP Address [127.0.0.1/8]
2) Interface Name [ens160] - IP Address [152.1.0.168/24]
Enter your choice IP? MAC? TYPE? .. Press Quit to exitMAC
1) Interface Name [lo] - MAC Address [00:00:00:00:00:00]
2) Interface Name [ens160] - MAC Address [00:50:56:89:01:03]
Enter your choice IP? MAC? TYPE? .. Press Quit to exitTYPE
1) Interface Name [lo] - Interface Type [loopback]
2) Interface Name [ens160] - Interface Type [ether]
Enter your choice IP? MAC? TYPE? .. Press Quit to exitNO
Please enter a correct choice
Enter your choice IP? MAC? TYPE? .. Press Quit to exitquit
User wishes to quit
```