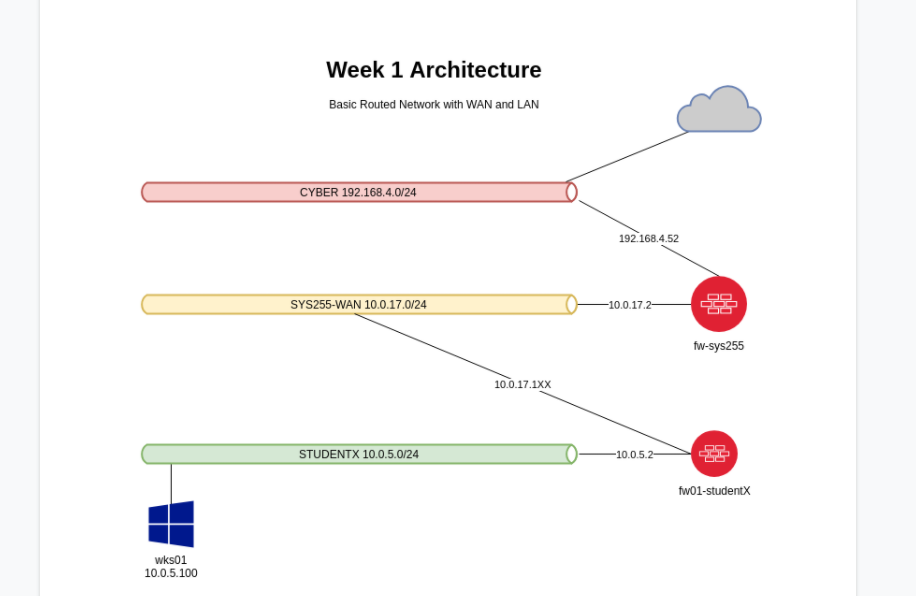
LAB 1 Tech Journal

**Virtual Firewall and Windows 10 configuration**

\* Pro tip Draw out Network architecture



**SYSTEMS NOMENCLATURE**

Fw01 = Pfsense = firewall

* The PfSense firewall will provide routing services between a Local Area Network and Wide Area Network in your VSphere environment.

Wks01 = Workstation

Dhcp01 = DHCP server

Ad01 = Active Directory

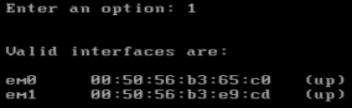
**VMware Settings**

* To edit vmware settings right click the vm, click edit settings, then configure your desired setting
* Our interfaces should be assigned in the same order as they appeared in our VMWare configuration, namely the WAN should be associated with the first interface and the LAN should be associated with the second interface.

**PfSense Configuration**

WAN network adapter should match the em0 MAC address.

LAN should match the em1 MAC address / Network adapter



*\* Note*

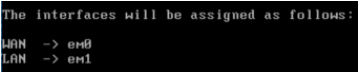
Do not configure VLANs now

The WAN interface name should be changed to em0

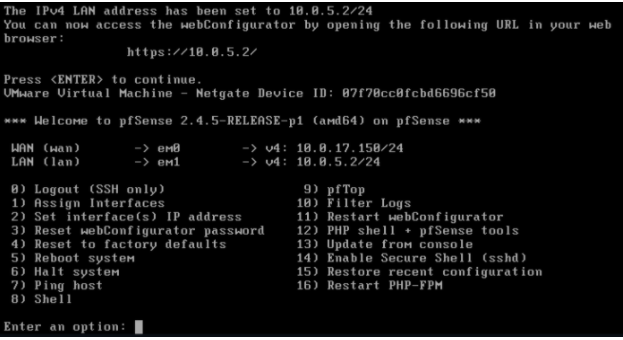
The LAN interface name should be changed to em1

If prompted for an optional interface, just select <ENTER>

**CHECK**



**Interface IP Address Setup**

****

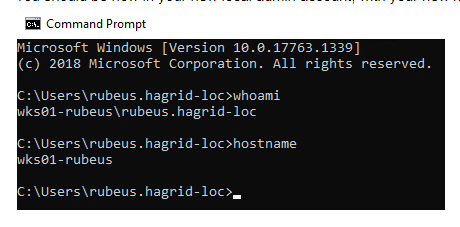
**Windows 10 - wks01**

\*Change computer name to desired

**Creating a super user admin account**

* Go to lusrmgr.msc
* Add -loc to the end
* Add a new user with a password
* Right click user, properties, member of, add your system name\administrators and click check name to verify

How to check if your changes worked



Open network configuration items

Right click network at bottom, open network settings, change adapter settings, right click, properties, navigate to internet protocol version 4, input desired values

**How to check if PfSense GUI networking is setup correctly**

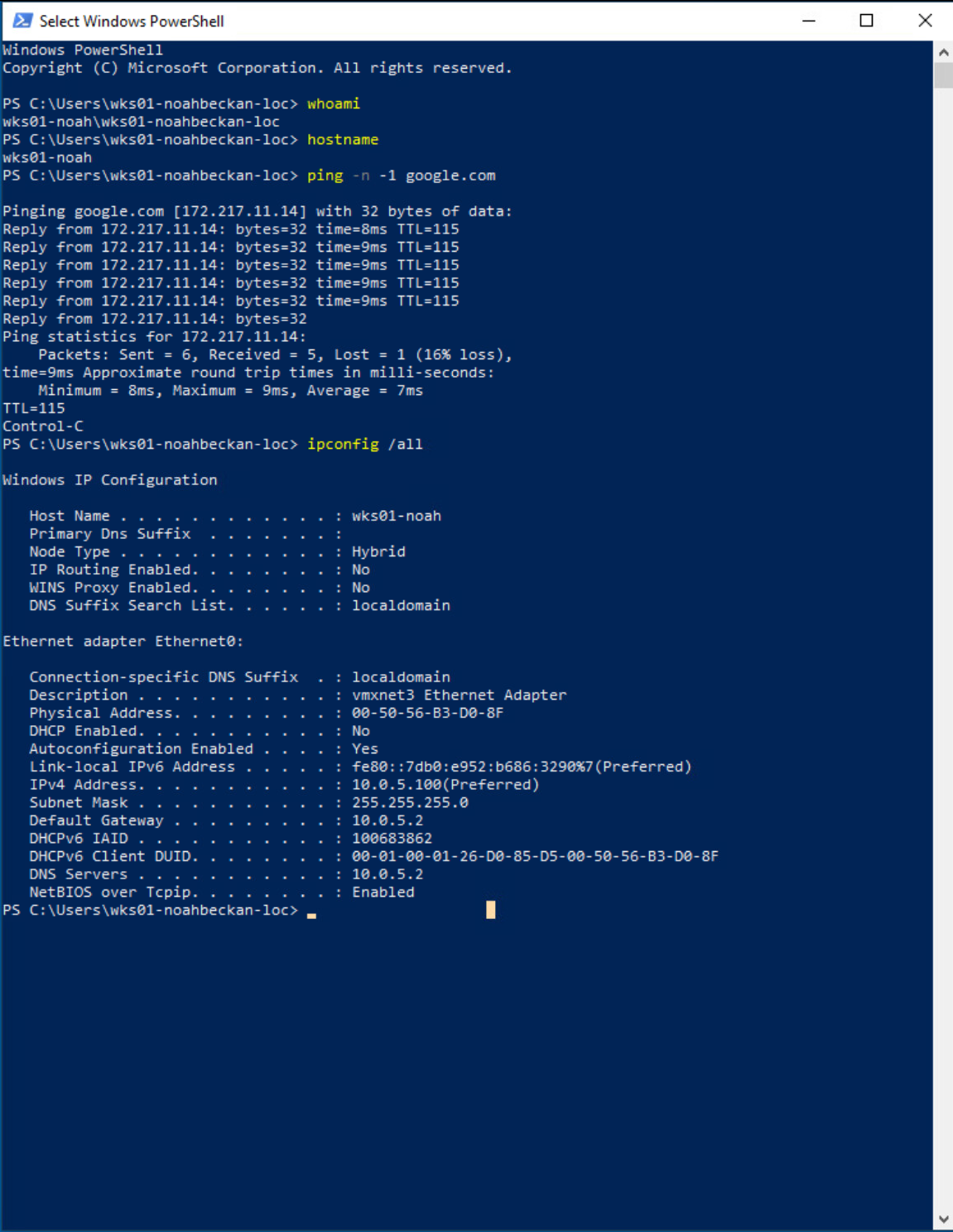
Open terminal

Select 8

Type “ping -c 1 champlain.edu”

Wait for response

**Example of basic commands**



**Difficulties and solutions in the lab**

Changing Hostname of computer is just the pc name

* Just change the name of the computer

Be on the correct user when changing users permissions

* Double check the user

Typo in first page of instructions