Logan Chayet

9/4/2023

CSCI 5010

Lab 1

2. Notes:

First to access the vSphere website, I installed the VPN client to my machine. I then connected to the UCB VPN and then entered the following address: <https://cs-vsphere.int.colorado.edu/>. This took me to the vSphere website where I clicked on a drop down on the left side to view all the machines, I had access to. To access said machines, I clicked on them and launched the remote console to get access to them.

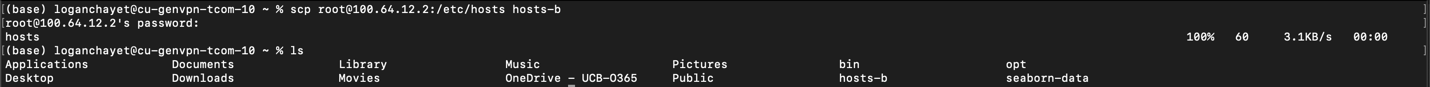
To determine my N number, I first had to read about the Dunder Mifflin Scenario. In there, it talked about how the N number is part of the IP for some of the machines in our environment. So taking that idea, I logged into Machine A with username: root and password: saclass and typed in the command “ip address” to access all the Ips and connected ports to the specific machine. In the diagram, port ‘ens224’ has an IP of 100.64.N.1. I looked for this port in the output of the command and found that: N=12 for me.

My machine (2020 MacBook Pro) has an ssh client in the terminal, for example I ssh’ed into Machine A by doing the command: ssh [root@100.64.12.1](mailto:root@100.64.12.1). I did this for every machine except Machine E because Machine E can only be accessed through Machine A. What I did to get around that is ssh into machine A, then ssh from machine A into machine E. Now access to all the machines are accounted for, I then changed the password on every machine by typing in the command ‘passwd’. It prompted me to enter a new one and I did just that for every machine.

To copy the contents of /etc/hosts to my local machine for every machine, I typed in the command: scp root@100.64.12.2:/etc/hosts hosts-b but appending the machine identifier and hosts-# filename for each machine respectively. But because machine E can only be accessed through machine A, I simply ssh’ed into machine A, copied the file onto machine A, then went to my local machine and copied that file on to my local machine using: “scp [root@100.64.12.1:hosts-e](mailto:root@100.64.12.1:hosts-e) hosts-e”

The End!

3. Screenshot:



4. Contents of /etc/hosts for all 7 machines:

Machine A:

127.0.0.1 localhost machinea machinea.dundermifflin.com

Machine B:

127.0.0.1 localhost machineb machineb.dundermifflin.com

Machine C:

127.0.0.1 localhost machinec machinec.dundermifflin.com

Machine D:

127.0.0.1 localhost machined machined.dundermifflin.com

Machine F:

127.0.0.1 localhost machinef machinef.dundermifflin.com

Machine X:

127.0.0.1 localhost machinex machinex.dundermifflin.com

Machine E:

127.0.0.1 localhost machinee machinee.dundermifflin.com

5. Assignment Duration:

It took me just under an hour to complete this assignment.