Lab 5: Adding a Host to a Network

Steps To Complete Lab:

1. Make Machine F a Host
    a. Access machine F through the physical console
        i. get eth0 MAC address by using “ifconfig -a”
        ii. “vi /etc/sysconfig/network-scripts/ifcfg-eth0” => edit this file and change Onboot=yes
        iii. reboot machine F
    b. SSH into machine A
        i. “vi /etc/dhcp/dhcpd.conf”
            1. add these lines to file
                a. host machine F { hardware ethernet 00::50::56::a0::66::ef; fixed-address 100.64.24.2; }
            2. change range to outside new fixed-address
            3. reboot machine A
2. Check SSH
    a. SSH into machine F from machine A => if able then machine F is now a host on the network
3. Check HTTP
    a. “yum install httpd” on machine F
    b. “/etc/init.d/httpd start” on machine F

c. go to http://100.64.24.5 in google chrome => see Apache 2 test page then HTTP works with machine F

4. Copy User Configuration of Machine B over to Machine F
    a. “yum install rsync” on machine B and machine F
    b. from machine B
        i. “rsync /etc/sudoers root@100.64.24.5:/etc/sudoers”
        ii. “rsync /etc/shadow root@100.64.24.5:/etc/shadow”
        iii. “rsync /etc/passwd root@100.64.24.5:/etc/passwd”
        iv. “rsync /etc/group root@100.64.24.5:/etc/group”
        v. “rsync -a /var/www/ root@100.64.24.5:/var/www/’
    c. SSH into machine F
        i. check all files that were rsync’d
        ii. go to http://100.64.24.5 and see Dunder Mifflin webpage
5. Update Machine F With The Contents of Machine B Every Hour
    a. “crontab -e” => add rsync command to execute hourly
        i. The command is: 0 * * * * rsync -a /var/www/ root@100.64.24.5:/var/www/
    b. Create User Authentication Between Machine B and Machine F
        i. “ssh-keygen” in Machine B
        ii. Check Machine F for a .ssh directory and authorized_keys. If they do not exist create them.
        iii. Create temp_key file on Machine F to hold Machine B’s public key

iv. “scp .ssh/id_rsa.pub 100.64.24.5:/root/.ssh/temp_key” => copy the public key of Machine B to Machine B

v. “cat temp_key >> authorized_keys” => append the public key of Machine B to Machine B.

vi. ssh into machine F from Machine B. If no password is required then ssh without password is working properly.

vii. Check /var/log/cron to make sure script ran properly.