Assignment 2

Linux Server/Network Setup

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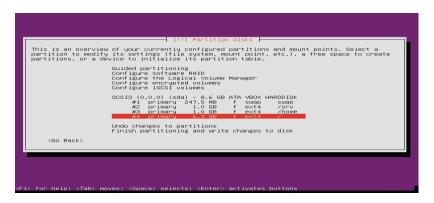
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Part 1-Install New Server / Windows Client

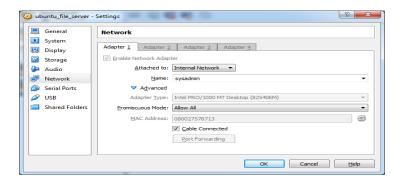
First we begin by creating the new VM Ubuntu_file_server

Use the default values until we get to partitioning.



Set the partitions as wanted above

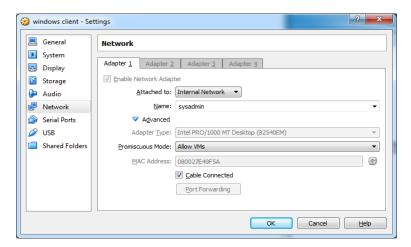
After manually setting the partitions I set the Ethernet adapter to internal network "sysadmin" as shown below.



Since you asked us to skip the windows install here's just a screen shot of the windows VM



After that I set it like the other server to internal network "sysadmin"



Part 2: - Networking Configuration

First we back up both the linix ssh server and the ubuntu_file_server's interface files

Next is to save the original interface files.

Once the username and password is enter I used the following commands:

Cd ../../..
Cd etc/network
Sudo sp interfaces interface_assign2

Now that they are backed up we move on to configuring the servers interface files

Vi interfaces

Set them as so:

```
# This file describes the network interfaces available on your system # and how to activate them. For more information, see interfaces(5).

# The loopback network interface available interfaces (5) if acc 10 inet loopback

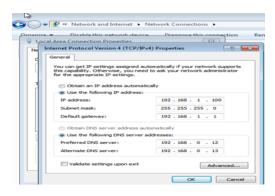
# The primary network interface if acc eth0 inet static address 192.168.1.20 inetwork 192.168.1.20 inetwork 192.168.1.1.20 inetwork 192.168.1.1.1 inetwork 192.168.1.1 inetwork 192.168.1.1 inequality of the primary 192.168.1.2 inequality of the primary 192.168.1.3 inequality of the primary 192.168.1.3 inequality of the primary 192.168.1.3 inequality 1
```

```
II This file describes the network interfaces available on your system
III and how to activate them. For more information, see interfaces(5).
II The loopback network interface
auto lo
Iface lo inet loopback
II The primary metwork interface
auto etho
Iface etho inet static
auto etho
Iface stip inet static
auto etho
Iface inet static
Ifac
```

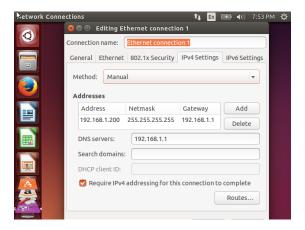
Since they were read only I had to override that to save the configuration

W !sudo tee %

Now that the servers are set statically it's now time for the windows client



Finally all that's left is the Linux desktop side



Now that all of the ips have been statically set time to ping the virtual router (192.168.1.1)

Windows client VM

```
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time(ims ITL=64
Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Mininum = 0ms, Maxinum = 0ms, Average = 0ms

C:\Users\tnt\ping 192.168.1.1
Pinging 192.168.1.1 bytes=32 time(ims ITL=64
Reply from 192.168.1.1: bytes=32 ti
```

Linux desktop

```
Terminal File Edit View Search Terminal Help

thus this promise of the promise of
```

Ubuntu_file_server

```
We bytes from 192.166.1.1: | cmp_seq=5 ttl=64 time=0.761 ms |
bytes from 192.166.1.1: | cmp_seq=6 ttl=64 time=0.565 ms |
bytes from 192.166.1.1: | cmp_seq=6 ttl=64 time=0.655 ms |
bytes from 192.166.1.1: | cmp_seq=6 ttl=64 time=0.656 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.656 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.656 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.656 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.659 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.659 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.679 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.679 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.679 ms |
bytes from 192.166.1.1: | cmp_seq=16 ttl=64 time=0.677 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.677 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.777 ms |
bytes from 192.166.1.1: | cmp_seq=1 ttl=64 time=0.777 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.777 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.777 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
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bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
bytes from 192.166.1.1: | cmp_seq=2 ttl=64 time=0.678 ms |
bytes from 192.166.1.1: | cmp_seq=2
```

Linux ssh server

```
tht@herpderp:/etc/network$ ping 192.168.1.1
FING 192.168.1.1 (192.168.1.1) 56(44) bytes of data.
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=140 ms
64 bytes from 192.168.1.1: icnp_seq=2 ttl=64 time=2.17 ms
64 bytes from 192.168.1.1: icnp_seq=2 ttl=64 time=2.18 ms
64 bytes from 192.168.1.1: icnp_seq=2 ttl=64 time=2.18 ms
64 bytes from 192.168.1.1: icnp_seq=5 ttl=64 time=2.19 ms
64 bytes from 192.168.1.1: icnp_seq=5 ttl=64 time=2.19 ms
64 bytes from 192.168.1.1: icnp_seq=5 ttl=64 time=2.17 ms
64 bytes from 192.168.1.1: icnp_seq=5 ttl=64 time=3.92 ms
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=4.95 ms
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=4.95 ms
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=4.95 ms
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=3.51 ms
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=2.27 ms
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=2.24 ms
64 bytes from 192.168.1.1: icnp_seq=1 ttl=64 time=2.24 ms
64 bytes from 192.168.1.1: icnp_seq=15 ttl=64 time=2.27 ms
```

All VM pinging 192.168.1.1 work!

Part 3- Configure Networking Services (SSH Server, Samba)

Install SSH server and samba packages on ubuntu_file_server

Sudo apt-get install openssh-server openssh-client

Sudo apt-get install samba

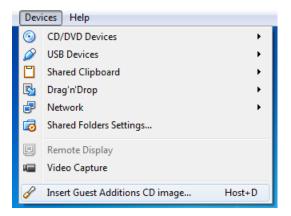
tnt@ubuntufileserver:~\$ sudo apt-get install openssh-server openssh-client

tnt@ubuntufileserver:~\$ sudo apt-get install samba [sudo] password for tnt: _

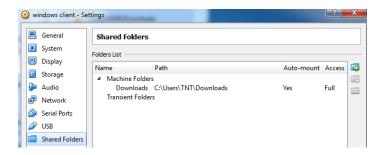
Next install putty into windows client

Well this was odd but I got it to work

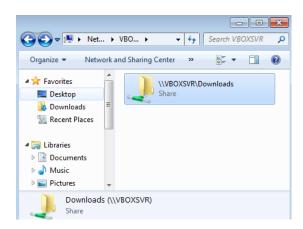
First I add the VM ware guest additions cd image and install it



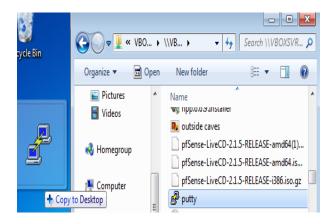
After I add my downloads folder to the VM so I can copy over my putty .exe



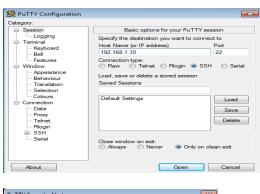
Now it shows up on the network share drives



Super Success!



Now we have putty time test ssh!





Yes please!

I'm in!

Now time to configure samba files!

Cd ../../..

Cd etc/samba

Vi smb.conf

Add in the share definitions

Because it's a read only file again

W !sudo tee %

Make sure the folders are available in home folder

Mkdir backup

Mkdir docs

And add permissions

Chmod 777 backup

Chmod 777 docs

Test to see if I can access the samba!

```
### htt@ubuntufileserven ~/doc
login asi tnt
tnt0192.168.1.20's password:
Access denied
tnt0192.168.1.20's password:
Welcome to Ubuntu 14.04.1 LTS (GNU/Linux 3.13.0-32-ger
* Documentation: https://help.ubuntu.com/
System information as of Wed Nov 19 08:47:53 EST 20:
System load: 0.04 Processes:
Usage of /home: 0.1% of 922MB Users logged in:
Memory usage: 10% IP address for etho:
Swap usage: 0%
Graph this data and manage this system at:
https://landscape.canonical.com/
Last login: Wed Nov 19 08:47:53 2014 from localhost
tnt04ubuntufileserver:-% cd docs
```

Yes to windows

```
Last login: Wed Nov 19 10:06:01 2014 from 192.168.1.100
tht@ubuntufileserver:-$ docs
mNo command 'docs' found, did you mean:
Command 'docs' from package 'pvpgn' (universe)
Command 'dots' from package 'drbl' (universe)
Command 'dots' from package 'dros' (universe)
Command 'rocs' from package 'rocs' (universe)
Command 'rocs' from package 'rocs' (universe)
Command 'ocs' from package 'rocs' (universe)
Command 'ocs' from package 'cscope' (universe)
docs: command not found
tht@ubuntufileserver:-$ cd docs
tht@ubuntufileserver:-/docs$ mkdir linux
```

And Linux

Part 4: Configure Your srv1 to be a web server

Installing apache

Sudo apt-get install apache2

Setting up the webserver and enabling it (thanks to helpUbuntu.com on this one)

Sudo cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/mynewsite.conf Sudo a2ensite mynewsite
Sudo service apache2 restart

Now back up index.html

Cd var/www/html

Sudo cp index.html index_backup.html

Nano index.html

And edit it with my info

```
GNU nano 2.2.6

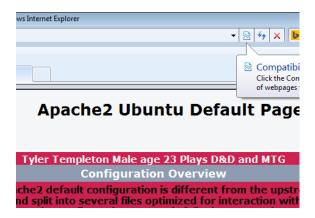
</html>
</head>
</head>
</head>
</head>

Tyler TEmpleton
age 23
male
magic the gathering player

</body>
<footer>
</footer>
</html>
```

(it broke before I could finish so I just re edited the index)

It worked!



Part 5 user management

Downloaded the text list

Wget http://courses.sheridanc.on.ca/downloads/courses/syst28296/auth_list_wed.txt

Added the new users

New users

Command dump

Ubuntu file server

Cd ../../..

Pwd

Cd ect/network

Cd etc

Cd network

Vi interfaces

Pwd

Ls

Sudo apt-get install apache2

Sudo cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/mynewsite.conf Sudo a2ensite mynewsite

Sudo service apache2 restart Cd var/www/html Sudo cp index.html index_backup.html Sudo nano index.html History –w ~history.txt

Ubuntu_file_server

Cd

Cd ../../

Pwd

Cd etc/network

Cp interfaces interfaces_assign2

Sudo cp interfaces interfaces_assign2

Vi interfaces

Cd ../../..

Sudo apt-get samba

Sudo apt-get openssh-server openssh-client

Cd etc/samba

Vi smb.conf

W !sudo tee %

W !sudo tee %

Mkdir backup

Mkdir docs

Chmod 777 backup

Chmod 777 docs

History

Linux desktop

Ping 192.168.1.1

Ping 192.168.1.10

Ssh 192.168.10

Ssh 192.168.20