Practical 10

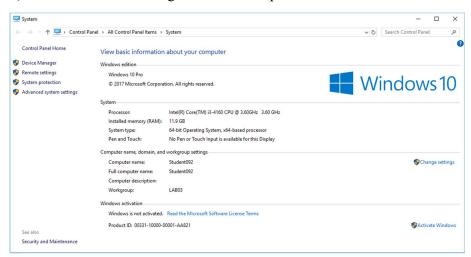
Setting up Samba

Settings to be done in Windows:

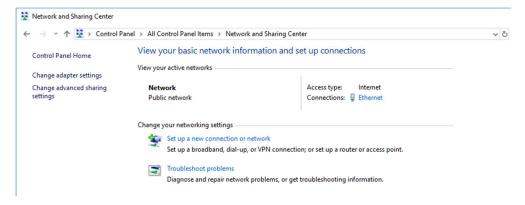
1) Go to "This PC" click on "Properties". Check Workgroup of your windows machine.



2) Go to "Network" and right click on "Properties" and also note down the Workgroup.



3) Go to the option "Change adapter settings". Right click on "VMware Network Adapter VMnet1". Click on "IPv4" then click on "Properties" button and Set IP Address as 10.0.0.10. Now Click "OK" and click "Close".

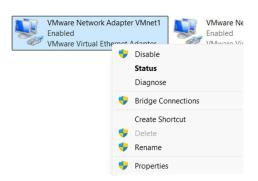


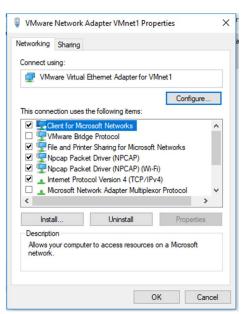


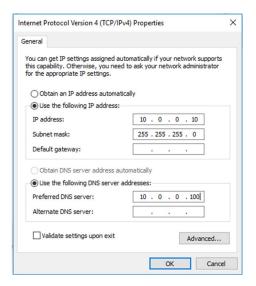




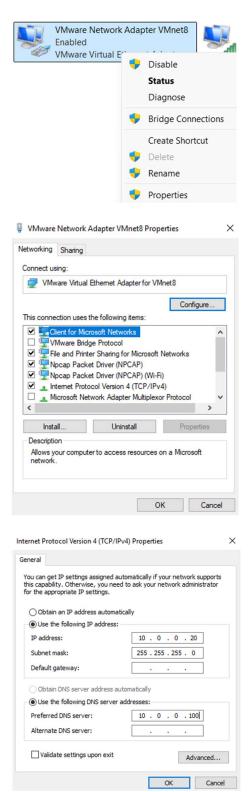








4) Right click on "VMWare Network Adapter VMnet8". Click "IPv4", click on "Properties" button and set IP Address as 10.0.0.20. Now, click "OK" and click "CLOSE".



Samba server installation

1) Check IP Address of your server.

```
[root@localhost ~]# ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.0.100 netmask 255.0.0.0 broadcast 10.255.255.255
    inet6 fe80::20c:29ff:feaf:d3cb prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:af:d3:cb txqueuelen 1000 (Ethernet)
    RX packets 1893 bytes 122180 (119.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 42 bytes 5326 (5.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2) Check for service package of samba.

```
[root@localhost ~]# rpm -q samba
samba-4.6.2-8.el7.x86_64
[root@localhost ~]#
```

3) Go to /etc/samba directory and list down the contents of it. Make a copy of smb.conf file to smb.conf.sample and then open the configuration file of samba.

```
[root@localhost ~]# cd /etc/samba
[root@localhost samba]# ls
lmhosts smb.conf smb.conf.example
[root@localhost samba]#
[root@localhost samba]# mv smb.conf smb.conf.sample
[root@localhost samba]#
[root@localhost samba]#
[root@localhost samba]# vi smb.conf
```

4) Write the following contents in the file and save it.

```
[global]
netbios name = localhost
workgroup = LAB03

[HR]
path = /dept/hr
Writable = yes
Valid users = tyit01, tyit02

[SALES]
path = /dept/sales
Writable = yes
Valid users = tyit01, tyit02

[ACCOUNTS]
path = /dept/accounts
Read Only = yes
```

Press esc :wq to save and exit from vi editor.

5) Create a directory, subdirectories and few files into it. You can also write contents in the file. This is a directory to be shared by samba.

```
[root@localhost samba]# mkdir /dept
[root@localhost samba]# mkdir /dept/hr
[root@localhost samba]# mkdir /dept/sales
[root@localhost samba]# mkdir /dept/accounts
[root@localhost samba]# touch /dept/hr/1.txt
[root@localhost samba]# touch /dept/hr/2.txt
[root@localhost samba]#
[root@localhost samba]# touch /dept/sales/3.txt
[root@localhost samba]# touch /dept/sales/4.txt
[root@localhost samba]#
[root@localhost samba]#
[root@localhost samba]#
[root@localhost samba]#
[root@localhost samba]# touch /dept/accounts/5.txt
[root@localhost samba]# touch /dept/accounts/6.txt
[root@localhost samba]# touch /dept/accounts/6.txt
[root@localhost samba]#
```

All shared directories are public. /dept/hr and /dept/sales are writable in whereas /dept/accounts is read only.

6) Now restart the service and check its status.

7) Execute the command testparm to test the parameters.

```
[root@localhost samba]# testparm
Load smb config files from /etc/samba/smb.conf
rlimit_max: increasing rlimit_max (1024) to minimum Windows limit (16384)
Processing section "[HR]"
Processing section "[SALES]"
Processing section "[ACCOUNTS]"
Loaded services file OK.
Server role: ROLE_STANDALONE
Press enter to see a dump of your service definitions
# Global parameters
[global]
             workgroup = LAB03
             idmap config * : backend = tdb
 [HR]
             path = /dept/hr
              read only = No
             valid users = tyit01 tyit02
 [SALES]
             path = /dept/sales
             read only = No
valid users = tyit01 tyit02
 [ACCOUNTS]
             path = /dept/accounts
[root@localhost samba]#
```

8) Stop Firewall and disable SELinux.

```
[root@localhost samba]# systemctl stop firewalld
[root@localhost samba]# setenforce 0
```

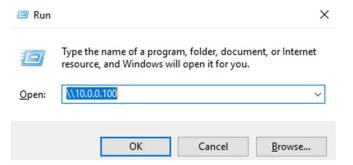
9) Give full permission to directory and list the contents of the directory.

```
[root@localhost samba]# chmod -R 777 /dept
[root@localhost samba]# ls -l /dept
total 0
drwxrwxrwx. 2 root root 32 Sep 23 15:43 accounts
drwxrwxrwx. 2 root root 32 Sep 23 15:43 hr
drwxrwxrwx. 2 root root 32 Sep 23 15:43 sales
[root@localhost samba]#
```

10) Create a user and give samba password to it. This user will be samba user.

```
[root@localhost samba]# useradd tyit01
[root@localhost samba]# smbpasswd -a tyit01
New SMB password:
Retype new SMB password:
Added user tyit01.
[root@localhost samba]#
[root@localhost samba]# useradd tyit02
[root@localhost samba]# smbpasswd -a tyit02
New SMB password:
Retype new SMB password:
Added user tyit02.
[root@localhost samba]# ■
```

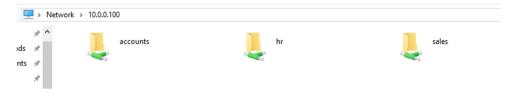
11) Now access this linux server from windows client. Go to run terminal and type IP address of server as \\10.0.0.100



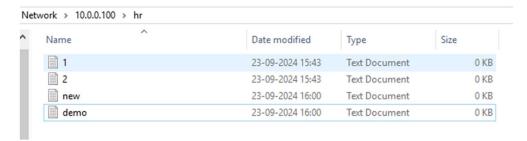
12) Login window will appear. Enter your username and password.



13) After successful login you will get to see shared directories.



Since, hr and sales are writable directories user can create files into it from windows end.



14) Accounts is read only directory. User can't create files into it from windows end.

