

ITIM

# PRACTICAL - 16

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Name : Yagna Patel  
Enrollment No. : 211621020  
Batch : 61(CBA)

## Tasks :

Question 1: Configure Samba server and define /samba directory as samba share

- a) Share should show up with name sambashare on client side.
- b) Share should be browsable.
- c) Share should be writable
- d) Mount the share on directory /samba\_mount with smb1 user.

Install samba samba-client and samba-common . command: yum install samba samba-client samba-common

```
[root@workstation student]# yum install samba samba-client samba-common
Red Hat Enterprise Linux 8.2 BaseOS (dvd)      313 kB/s | 2.8 kB      00:00
Red Hat Enterprise Linux 8.2 AppStream (dvd)   732 kB/s | 3.2 kB      00:00
Package samba-common-4.11.2-13.el8.noarch is already installed.
Dependencies resolved.
=====
Package           Arch    Version              Repository              Size
=====
Installing:
samba             x86_64  4.11.2-13.el8       rhel-8.2-for-x86_64-baseos-rpms 766 k
samba-client      x86_64  4.11.2-13.el8       rhel-8.2-for-x86_64-baseos-rpms 658 k
Installing dependencies:
samba-common-tools x86_64  4.11.2-13.el8       rhel-8.2-for-x86_64-baseos-rpms 472 k
samba-libs        x86_64  4.11.2-13.el8       rhel-8.2-for-x86_64-baseos-rpms 170 k

Transaction Summary
=====
Install 4 Packages

Total download size: 2.0 M
Installed size: 5.8 M
Is this ok [y/N]: y
```

Create a /samba dir using mkdir /samba and add some files init

```
[root@workstation student]# mkdir /samba
[root@workstation student]# echo "hello by yagna" > /samba/hello.txt
[root@workstation student]#
```

Enter into /etc/samba/smb.conf and add the lines shown in fig below. Here make sure the share name is sambashare, is browsable and the write permission is give to specific people or

```
[sambashare]
workgroup = "WORKGROUP"
path = /samba
browsable = yes
valid users = smb1
write list = smb1

~
:wq
```

everyone with writable=yes.

Create a user smb1 and give smbpasswd

```
[root@workstation student]# useradd smb1
[root@workstation student]# smbpasswd -a smb1
New SMB password:
Retype new SMB password:
Added user smb1.
[root@workstation student]# ll
total 0
drwxr-xr-x. 2 student student 6 Sep  1  2020 Desktop
drwxr-xr-x. 2 student student 6 Sep  1  2020 Documents
drwxr-xr-x. 2 student student 6 Sep  1  2020 Downloads
drwxr-xr-x. 2 student student 6 Sep  1  2020 Music
drwxr-xr-x. 2 student student 6 Sep  1  2020 Pictures
drwxr-xr-x. 2 student student 6 Sep  1  2020 Public
drwxr-xr-x. 2 root     root     6 Apr 13 12:59 samba
drwxr-xr-x. 2 student student 6 Sep  1  2020 Templates
drwxr-xr-x. 2 student student 6 Sep  1  2020 Videos
[root@workstation student]# ll /samba/
total 4
-rw-r--r--. 1 root root 15 Apr 13 13:00 hello.txt
[root@workstation student]#
```

Assign all permissions to smb1 and give ownership to smb1

```
[root@workstation student]# chown -R smb1:smb1 /samba
[root@workstation student]# chmod -R 777 /samba
[root@workstation student]#
```

disable firewall protection on samba service and reload the firewall-cmd

```
[root@workstation student]# firewall-cmd --permanent --add-service=samba
success
[root@workstation student]# firewall-cmd --reload
success
[root@workstation student]#
```

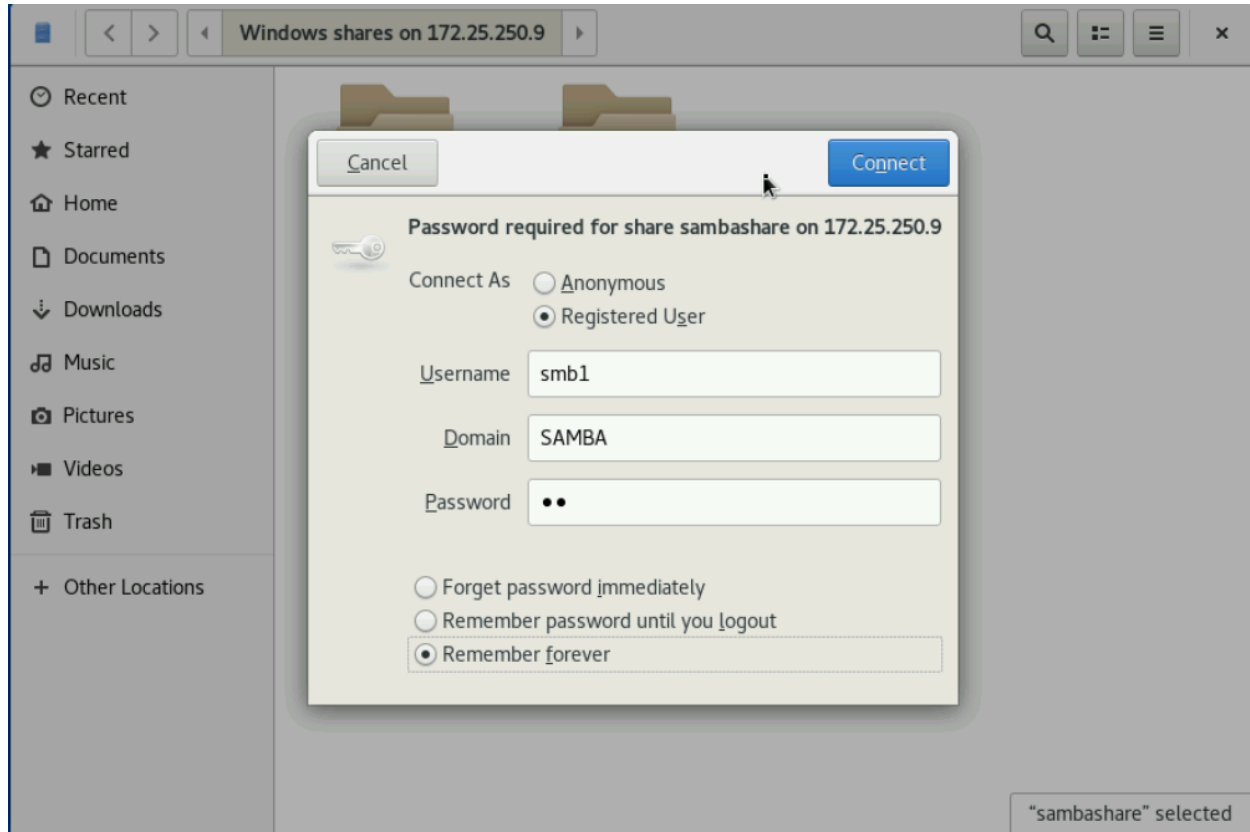
```
[root@workstation student]# firewall-cmd --permanent --add-service=samba
success
[root@workstation student]# firewall-cmd --reload
success
[root@workstation student]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: eth0
  sources:
  services: cockpit dhcpv6-client samba ssh
  ports:
  protocols:
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:

[root@workstation student]#
```

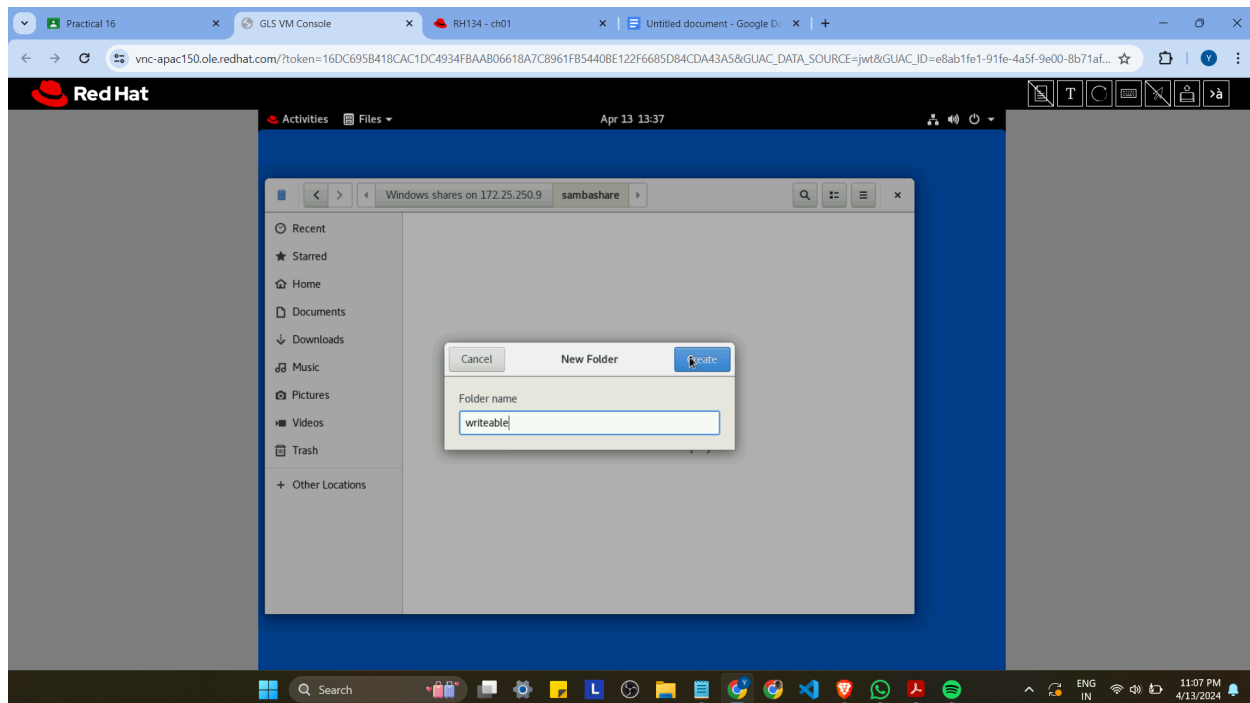
enable and start the smb service

```
[root@workstation student]# systemctl enable smb.service
Created symlink /etc/systemd/system/multi-user.target.wants/smb.service → /usr/lib/systemd/system/smb.service.
[root@workstation student]# systemctl start smb.service
```

Search the file with smb://ip and try opening it with the smb1 user



Check if you can make a file



Question 2: Configure samba share /sambaclient

- Share should be accessible only to host.
- Share should be read only.
- Set the WORKGROUP to mydomain.
- Mount this persistently on /smbclient with smb2 user.

Add sambaclient same as sambashare just take out writable and add read only =yes. Also change the workgroup to mydomain and path to /sambaclient(new folder) and valid users = smb2

```
[sambashare]
workgroup = "WORKGROUP"
path = /samba
browsable = yes
writable = yes
valid users = smb1
write list = smb1
[sambaclient]
path=/sambaclient
browsable = yes
read only = yes
valid users = smb2
workgroup = mydomain
"/etc/samba/smb.conf" 50L, 941C 48,13-20 Bot
```

```
[root@workstation student]# mkdir /sambaclient
[root@workstation student]# touch /samba/client/file{1...10}.txt
touch: cannot touch '/samba/client/file{1...10}.txt': No such file or directory
[root@workstation student]# touch /sambaclient/file{1...10}.txt
[root@workstation student]#
```

Add smb2 user

```
[root@workstation student]# useradd smb2
[root@workstation student]# smbpasswd -a smb2
New SMB password:
Retype new SMB password:
Added user smb2.
[root@workstation student]#
```

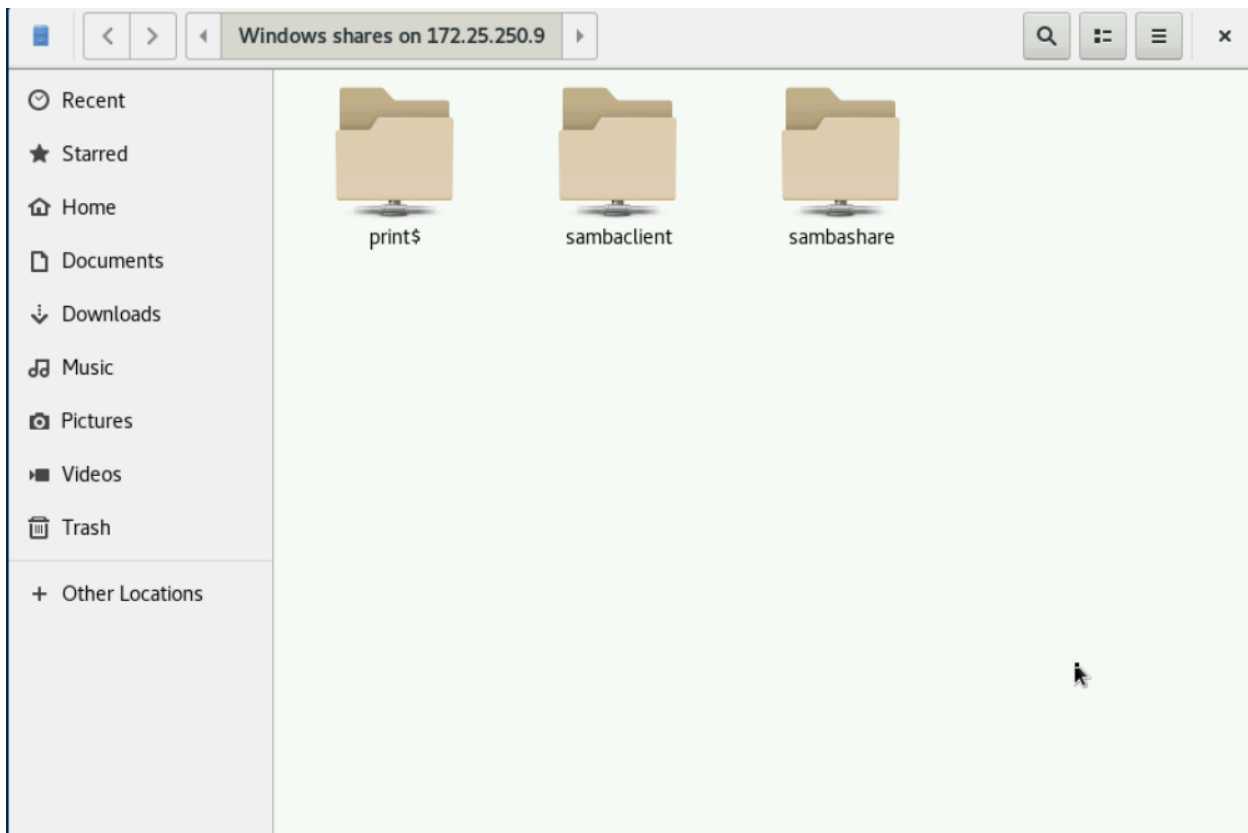
Give all permissions to and ownership to smb2

```
[root@workstation student]# chmod -R 777 /smbaclnt/
[root@workstation student]# chown -R smb2:smb2 /smbaclnt/
[root@workstation student]#
```

Restart the service

```
[root@workstation student]# systemctl restart smb
[root@workstation student]#
```

Here we can see the samba client from host



Question 3: Share the folder to a group of users.

Change the valid users to @ group\_name

```
directory_mask = 0775
[sambashare]
    workgroup = "WORKGROUP"
    path = /samba
    browsable = yes
    writeable = yes
    valid users = @1020grp
[sambaclient]
    path=/sambaclient
    browsable = yes
    read only = yes
    valid users = smb2
    workgroup = mydomain
~
:wq
```

Create a group using groupadd. Give ownership to group and add users into group

```
[root@workstation student]# vim /etc/samba/smb.conf
[root@workstation student]# groudadd 1020grp
bash: groudadd: command not found...
[root@workstation student]# groupadd 1020grp
[root@workstation student]# chown -R :1020grp /samba
[root@workstation student]# usermod -aG 1020grp smb1
[root@workstation student]# usermod -aG 1020grp smb2
[root@workstation student]#
```

Check access by entering a user from group

