

# SAMBA SHARE

## Experiment: 1

**Aim:** Installation and configuration of Samba share.

## Description:

### SAMBA

One of the most common ways to network Ubuntu and Windows computers is to configure Samba as a File Server. This section covers setting up a Samba server to share files with Windows clients.

The server will be configured to share files with any client on the network without prompting for a password. If your environment requires stricter Access Controls see [Share Access Control](#)

**Port No:** 139

**Package name:** samba

**Configuration file:** /etc/samba/smb.conf.

## Procedure:

1. To install Samba, we can run:

```
$sudo apt update
```

```
$sudo apt install samba
```

2. We can check if the installation was successful by running:

```
$whereis samba
```

3. Now that Samba is installed, we need to create a directory for it to share:

```
$mkdir /home/&lt;username&gt;/sambashare/
```

The command above creates a new folder samba share in our home directory which we will share later. The configuration file for Samba is located at /etc/samba/smb.conf. To add the new directory as a share, we edit the file by running:

```
$sudo nano /etc/samba/smb.conf
```

At the bottom of the file, add the following lines:

```
[sambashare]
```

```
comment = Samba on Ubuntu
```

```
path = /home/username/sambashare
```

```
read only =
```

```
no
```

```
browsable = yes
```

4. Then press Ctrl-O to save and Ctrl-X to exit from the nano text editor.

5. Now that we have our new share configured, save it and restart Samba for it to take effect:

```
$sudo service smbd restart
```

6. Update the firewall rules to allow Samba traffic:

```
$sudo ufw allow samba
```

## SETTING UP USER ACCOUNTS AND CONNECTING TO SHARE

7. Since Samba doesn't use the system account password, we need to set up a Samba password for our user account:

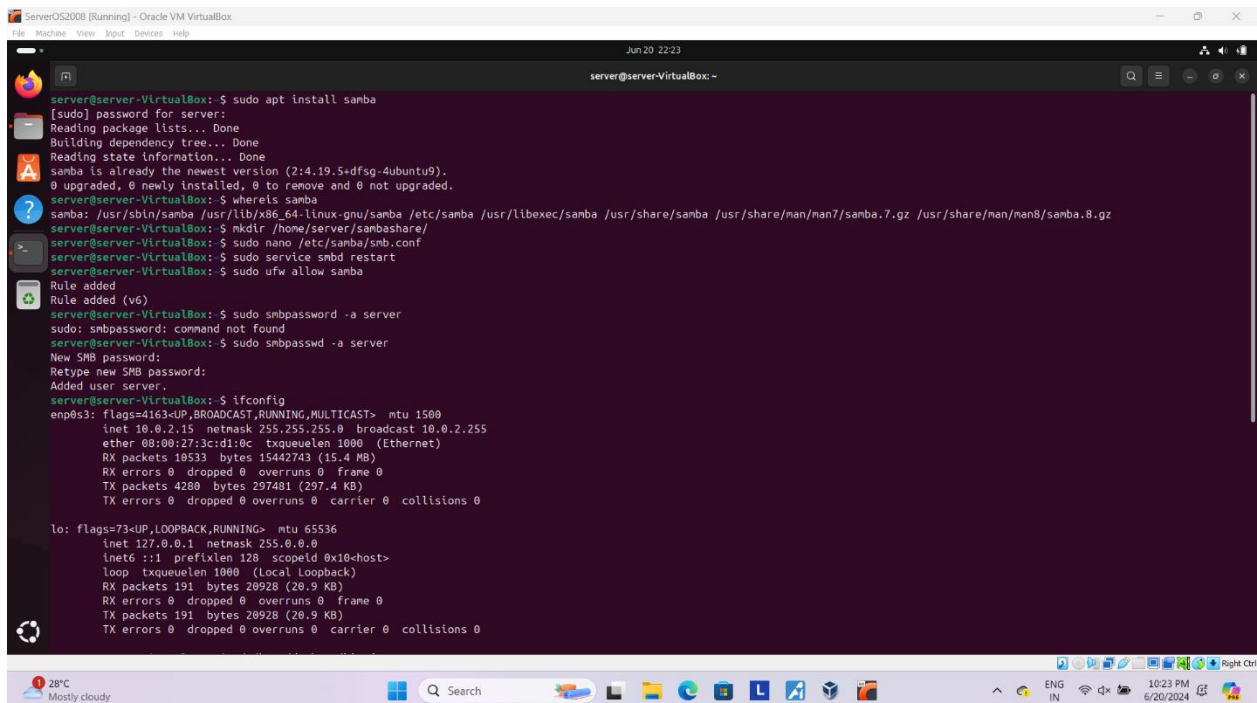
```
$sudo smbpasswd -a username
```

## CONNECTING TO SHARE

8. On Ubuntu: Open up the default file manager and click Connect to Server then enter: Connecting to samba via smb://127.0.0.1/sambashare

Note: ip-address is the Samba server IP address and sambashare is the name of the share. You'll be prompted for your credentials. Enter them to connect

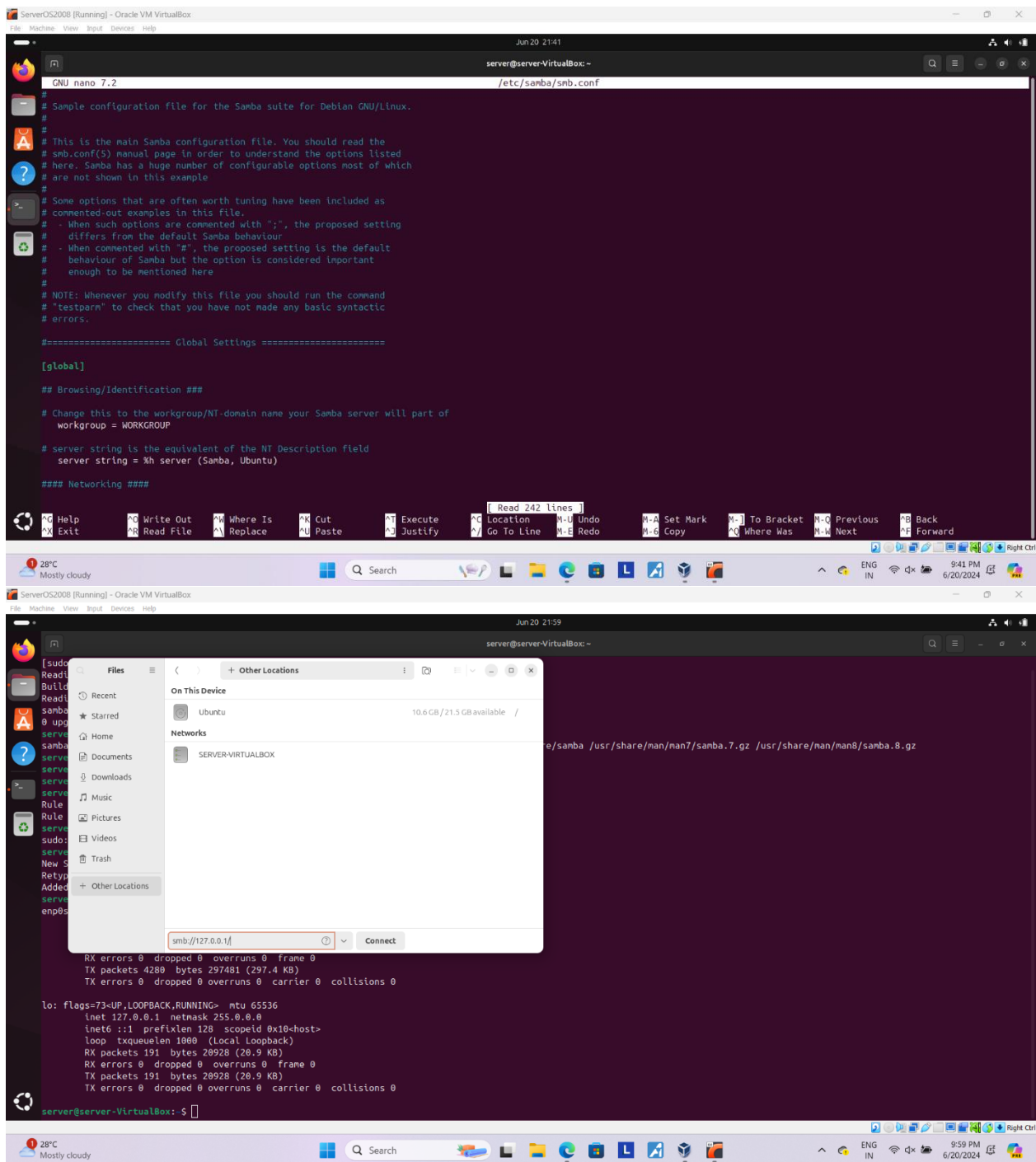
## Result:

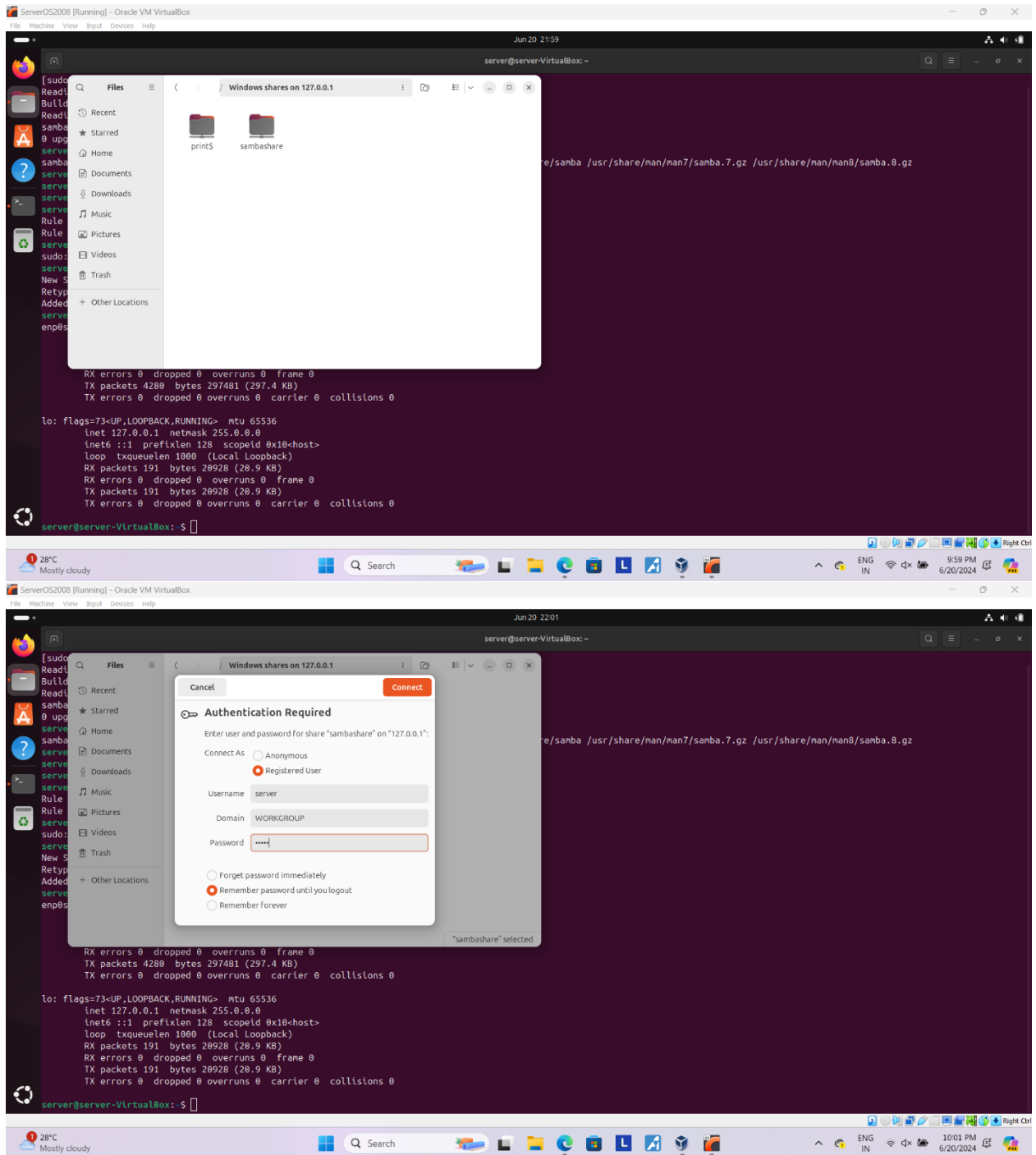


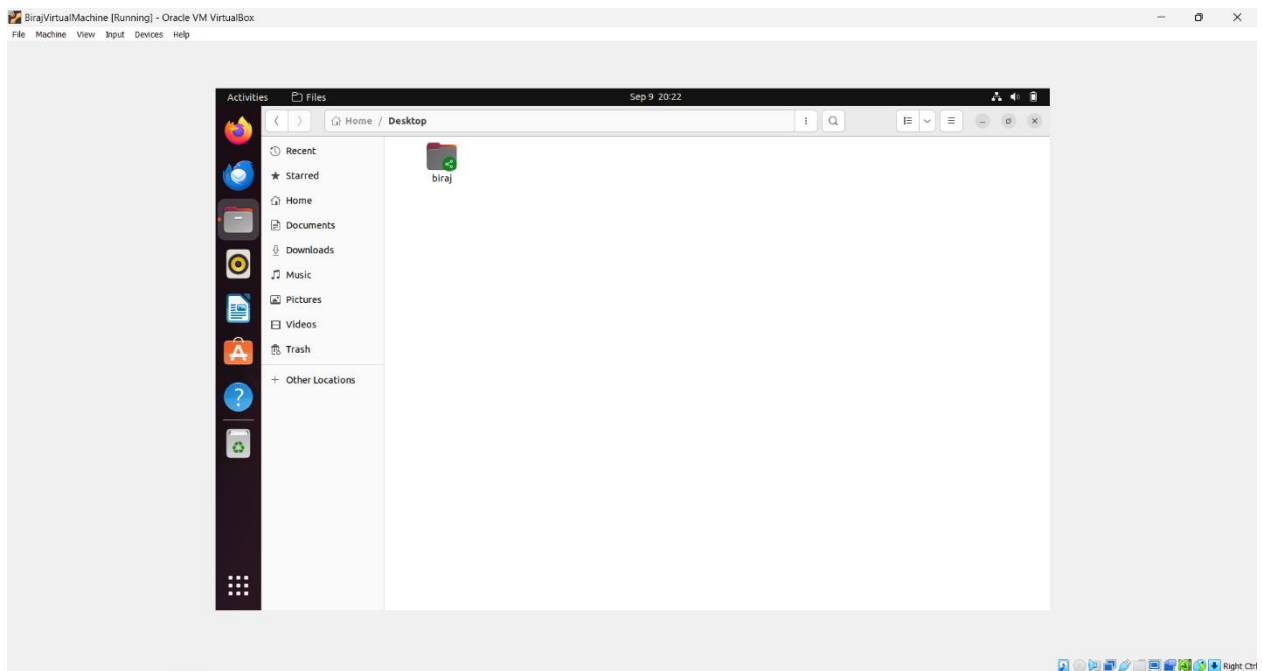
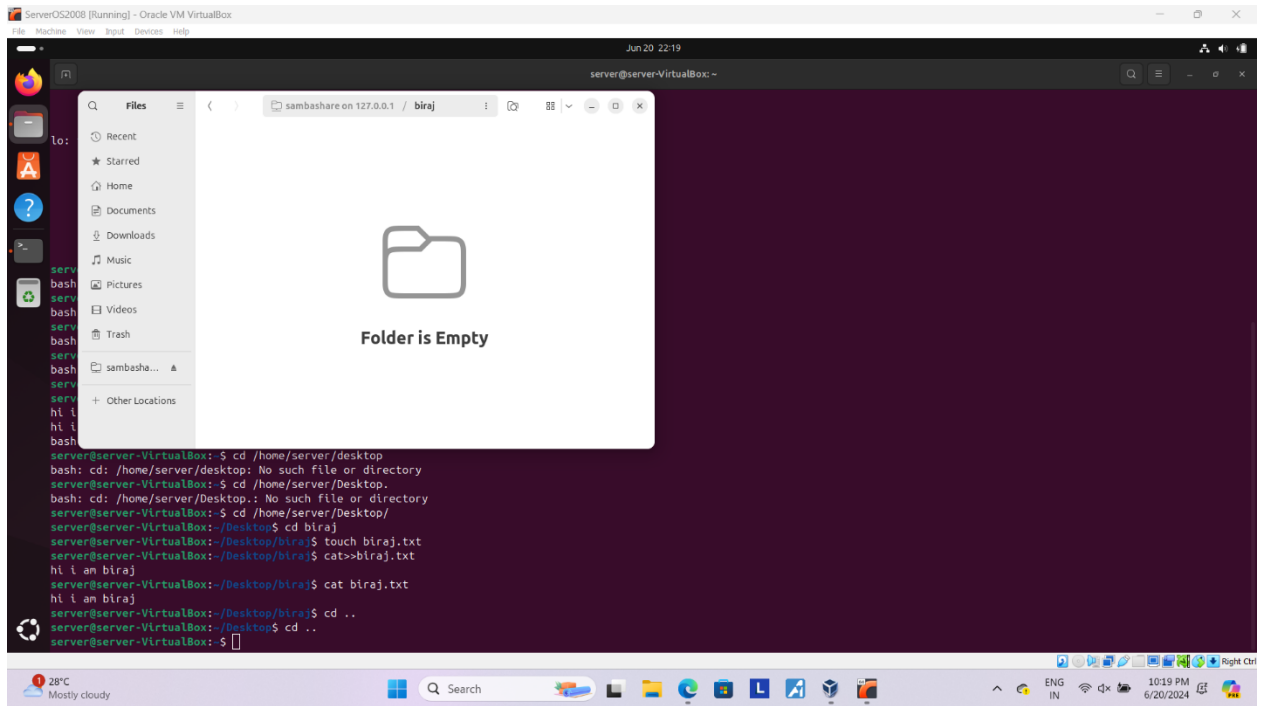
```
ServerOS2008 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Jun 20 22:23
server@server-VirtualBox: ~$ sudo apt install samba
[sudo] password for server:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
samba is already the newest version (2:4.19.5+dfsg-4ubuntu9).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
server@server-VirtualBox:~$ whereis samba
samba: /usr/sbin/samba /usr/lib/x86_64-linux-gnu/samba /etc/samba /usr/libexec/samba /usr/share/samba /usr/share/man/man7/samba.7.gz /usr/share/man/man8/samba.8.gz
server@server-VirtualBox:~$ mkdir /home/server/sambashare/
server@server-VirtualBox:~$ sudo nano /etc/samba/smb.conf
server@server-VirtualBox:~$ sudo service smbd restart
server@server-VirtualBox:~$ sudo ufw allow samba
Rule added
Rule added (v6)
server@server-VirtualBox:~$ sudo smbpasswd -a server
sudo: smbpasswd: command not found
server@server-VirtualBox:~$ sudo smbpasswd -a server
New SMB password:
Retype new SMB password:
Added user server.
server@server-VirtualBox:~$ ifconfig
enp8s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
    ether 08:00:27:3c:d1:0c  txqueuelen 1000  (Ethernet)
    RX packets 10533  bytes 15442743 (15.4 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 4280  bytes 297401 (297.4 KB)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 191  bytes 28928 (28.9 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 191  bytes 28928 (28.9 KB)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0
```







All the commands have been executed and the output has been obtained successfully.