**Practical 6: Installation and Configuration of Samba Server (CentOS and Ubunt**

**Ubuntu:**

Step 1: To install Samba, we run:

**sudo apt update**

**sudo apt install samba**

Step 2: Setting up Samba Now that Samba is installed, we need to create a directory for it to share: mkdir /home/<username>/sambashare/

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**

comment = Samba on Ubuntu

path = /home/username/sambashare

**read only = no**

**browsable = yes**

Then press Ctrl-O to save and Ctrl-X to exit from the nano text editor. Now that we have our new share configured, save it and restart Samba for it to take effect**:**

**sudo service smbd restart**

Step 3: Update the firewall rules to allow Samba traffic:

**sudo ufw allow samba**

Step 4: we need to set up a Samba password for our user account:

**sudo smbpasswd -a username**

**Step 5:** 1. Open up File Explorer and in the left pane right-click on “This PC”.

2. Select “Choose a custom network location” and then click “Next”.

3. In “Internet or network address”, enter the address of the Samba share in the following format **\\samba\_hostname\_or\_server\_ip\sharename.**

**CentOs)**

Step 1:To install it on your CentOS system run the following command**:**

**sudo yum install samba samba-client**

Step 2: Once the installation is completed, start the Samba services and enable them to start automatically on system boot:

**sudo systemctl start smb.service**

**sudo systemctl start nmb.service**

Step 3: you’ll need to configure your firewall and open the necessary ports. To do so, run the following commands:

**firewall-cmd --permanent --zone=public --add-service=samba**

**firewall-cmd --zone=public --add-service=samba**

Step 4: Creating Samba Users To create a new user named cse, use the following command: **sudo useradd -M -d /samba/cse -s /usr/sbin/nologin -G sambashare cse**

Step 5: Set a password and enable the user:

**sudo smbpasswd -a sadmin**

**sudo smbpasswd -e sadmin**

Step 6: Configuring Samba Shares Open the Samba configuration file and append the sections:

**sudo nano /etc/samba/smb.conf**

[cse]

path = /samba/cse

browseable = no

read only = no

force create mode = 0660

force directory mode = 2770

valid users = cse

Step 7: The syntax to access a Samba share is as follows:   
**smbclient //samba\_hostname\_or\_server\_ip/share\_name -U username**

Mount the share using the following command:

**sudo mount -t cifs -o username=username** **//samba\_hostname\_or\_server\_ip/sharename /mnt/smbmount**