

# **SAMBA SERVER ON** **CENTOS 7**

## **installing samba server(server** **side configuration):**

### **step1:**

requirements :

- 1) Centos server , ip: 192.168.0.50
- 2) client (ubuntu or centos), ip: 192.168.0.100
- 3) internet connection

### **step2:**

update repository and install the necessary samba packages

=> yum update -y

=>yum install samba samba-client samba-common

## **step3:**

**create a group and add user in that group who can use the samba share.**

```
=>groupadd test  
=>useradd user1  
=>useradd user2  
=>usermod -a -G test user1  
=>usermod -a -G test user2
```

## **step4:**

**Create a directory and give proper permission for that user and group**

```
=>mkdir /share  
=>chmod 777 /share  
=>chgrp test /share
```

## **step5:**

**Configure SELinux .you can either disable the SELinux or set the proper boolean value and security otherwise it will not let you connect to the server.In this we are not going to disable SELinux we will change the boolean value.**

```
=> setsebool -P samba_export_all_ro=1 samba_export_all_rw=1
=> getsebool -a | grep samba_export
=> semanage fcontext -at samba_share_t "/share(/.*)"?"
=> restorecon /share
```

## **step6:**

we have to change the firewall settings for allowing the connection

```
=> firewall-cmd --permanent --add-service=samba
```

```
=> firewall-cmd --reload
```

## **step7:**

This is the most important part of the part. we need to edit the configuration of the samba share

```
=> vim /etc/samba/smb.conf
```

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### **[share]**

comment=Directory for for samba share

browsable=yes

path=/share

public=no  
valid users=@test  
write list=@test  
writeable=yes  
create mask=0770  
Force create mode=0770  
force group=test

---

## **step8:**

**Test the configuration with the ‘testparm’ command. if there is any error in the configuration this command will tell you that**

**=>testparm**

## **step9:**

**we have to add the user of the test group to the samba**

**=>smbpasswd -a user1**

**=>smbpasswd -a user2**

## **step10:**

restart the samba server to make the change the in effect

=>systemctl start smb

=>systemctl start nmb

## **step11:**

we have to enable the smb and nmb service to make start this on boot time

=>systemctl enable smb

=>systemctl enable nmb

## **step12:**

Test the connection from the server

=>smbclient -L localhost -U user1

=>smbclient -L localhost -U user2

# installing samba Client(linux client):

## step1:

install packages in the client

=>yum update -y

=>yum install samba samba-client samba-common -y

=>yum install cifs-utils -y

## step2:

Test the connection from the client

=>smbclient -L 192.168.0.50 -U user1

## step3:

make the directory for mounting and give the proper permission

=>mkdir /share

=>chmod 777 /share

## **step4:**

**mount the the network share**

**=>mount //192.168.0.50/share /share -o username=user1**

## **Additional step(permanent mount):**

**adding a credential file in /share folder**

**=> vim /share/.smbcredentials**

---

**username=user1**

**password=<password\_for\_user\_1>**

---

**adding an entry to the ‘/etc/fstab’ file**

**=>vim /etc/fstab**

---

**//192.168.0.50/share /share cifs  
credentials=/share/.smbcredentials**

---

# **Test the share:**

**create a file in the /share folder from the client side**

**=>touch /share/test.txt**

**Now test from the server side**

**=>ls -l /share**