Configure linux samba server step by step guide example and implementation

Most Linux systems are the part of networks that also run Windows systems. Using Linux **Samba servers**, your Linux and Windows systems can share directories and printers. This is most use full situation where your clients are window native and you want to use the linux security features.

Exam question There are mixed lots of System running on Linux and Windows OS. Some users are working on Windows Operating System. There is a **/data** directory on linux server should make available on windows to only vinita should have right to connect with samba server . Configure to make available.

Configure samba server

In this example we will configure a **samba** server and will transfer files from client side.For this example we are using two systems one linux server one window clients.

per quest of samba server

- A linux server with ip address 192.168.0.254 and hostname Server
- A window client with ip address 192.168.0.2 and hostname Client2
- Updated /etc/hosts file on linux system
- Running portmap and xinetd services
- Firewall should be off on server

We have configured all these steps in our pervious article.

We suggest you to review that article before start configuration of samba server. Once you have completed the necessary steps follow this guide.

samba rpm is required to configure samba server. check them if not found then install

```
[root@Server ~]# rpm -qa samba*
samba-3.0.25b-0.el5.4
samba-common-3.0.25b-0.el5.4
samba-client-3.0.25b-0.el5.4
[root@Server ~]# _
```

Now check **smb, portmap, xinetd** service in system service it should be on

```
#setup Select  System service from list [*]portmap [*]xinetd [*]smb
```

Now restart **xinetd** and **portmap** and **smb** service

```
[root@Server ~]# service portmap restart
Stopping portmap:                                          [  OK  ]
Starting portmap:                                          [  OK  ]
[root@Server ~]# service xinetd restart
Stopping xinetd:                                           [  OK  ]
Starting xinetd:                                           [  OK  ]
[root@Server ~]# _
```

To keep on these services after reboot on then via **chkconfig** command

```
[root@Server ~]# chkconfig portmap on
[root@Server ~]# chkconfig xinetd on
[root@Server ~]# _
```

After reboot verify their status. It must be in running condition

```
[root@Server ~]# service portmap status
portmap (pid 3430) is running...
[root@Server ~]# service xinetd status
xinetd (pid 3462) is running...
[root@Server ~]# _
```

Create a normal user named **vinita**

```
[root@Server backup]# useradd vinita
[root@Server backup]# passwd vinita
Changing password for user vinita.
New UNIX password:
BAD PASSWORD: it is WAY too short
Retype new UNIX password:
passwd: all authentication tokens updated successfully.
[root@Server backup]#
```

now create **/data** directory and grant it **full permission**

```
[root@Server ~]# mkdir /data
[root@Server ~]# chmod 777 /data
[root@Server ~]# _
```

open **/etc/samba/smb.conf** main samba configuration files

```
[root@Server ~]# vi /etc/samba/smb.conf _
```

By default name of workgroup is **MYGROUP** in **smb.conf** file. you can change it with desire name

```
Hosts Allow/Hosts Deny lets you restrict who can
specifiy it as a per share option as well

        workgroup = MYGROUP
        server string = Samba Server Version %v
```

our task is to share **data** folder for **vinita** user so go in the end of file and do editing as shown here in this image

```
# Add this line to share
    [data]
 comment = personal share
 path = /data
 public = no
 writable = yes
 printable = no
 browseable = yes
 write list = vinita
```

save file with **:wq** and exit

Now add vinita user to **samba user**

```
[root@Server ~]# smbpasswd -a vinita
New SMB password:
Retype new SMB password:
[root@Server ~]# _
```

we have made necessary change now on **smb service** and check it status

```
[root@Server ~]# chkconfig smb on
[root@Server ~]# service smb start
Starting SMB services:
Starting NMB services:
[root@Server ~]# service smb status
smbd (pid 4332 4327) is running...
nmbd (pid 4330) is running...
[root@Server ~]# _
```

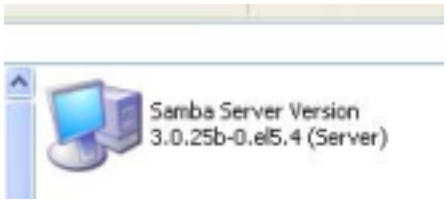
if you already have on this service then restart it with **service smb restart** commands.

Client configuration for samba server

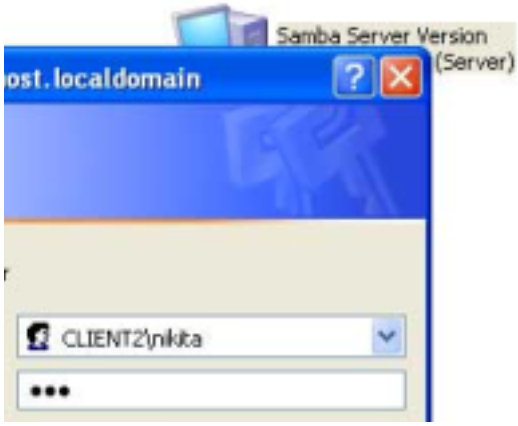
Go on windows system and **ping** samba server, change computer name to **client2** and workgroup name to **MYGROUP**

reboot system after changing workgroup name

After reboot open my network place here you can see **samba server** [if not see then click on view workgroup computer in right pane, if still not see then use search button from tool bar and search computer samba server form ip]

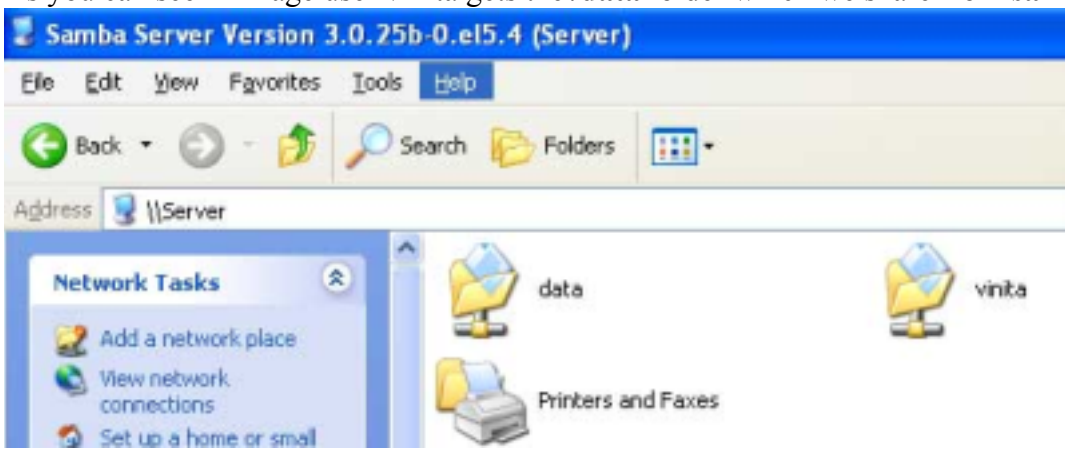


First try to login from user **nikita** she will not successes as nikita have not permission to login

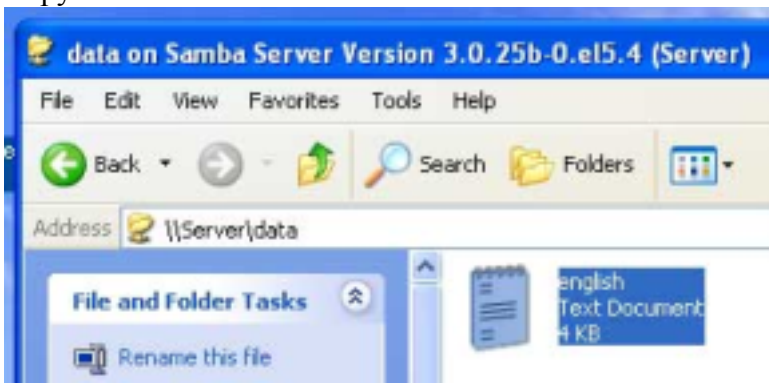


Now login from user **vinita** [give the password which you set with **smbpasswd** command]

As you can see in image user vinita gets the **/data** folder which we share from **samba server**



Copy some window files in **data** folder



Check status on samba server

on **samba server** you can check runtime status of samba server to check it run **smbstatus** command

```
[root@Server ~]# smbstatus

Samba version 3.0.25b-0.el5.4
PID     Username      Group         Machine
-------------------------------------------------------------------
 4720   vinita        vinita        client2      (192.168.0.49)

Service      pid     machine       Connected at
-------------------------------------------------------
data         4720   client2       Thu Feb 18 19:41:05 2010
IPC$         4720   client2       Thu Feb 18 19:40:56 2010

Locked files:
Pid          Uid        DenyMode   Access      R/W        Oplock           Share
Path   Name   Time
-------------------------------------------------------------------------------
-----------------
4720         503        DENY_NONE  0x100081    RDONLY     NONE             /data
   .   Thu Feb 18 19:41:13 2010

[root@Server ~]# _
```

in output you see that one **samba shared directory** is used on window system

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