```
                    How to Configure Samba Server

On Server machine

[root@server0 ~]# hostname
server0.example.com
[root@server0 ~]#
[root@server0 ~]# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 172.25.0.11  netmask 255.255.255.0  broadcast
172.25.0.255
        inet6 fe80::5054:ff:fe00:b  prefixlen 64  scopeid 0x20<link>
        ether 52:54:00:00:00:0b  txqueuelen 1000  (Ethernet)
        RX packets 23659  bytes 86202924 (82.2 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 16403  bytes 3206540 (3.0 MiB)
        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 0  (Local Loopback)
        RX packets 40  bytes 2936 (2.8 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 40  bytes 2936 (2.8 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

[root@server0 ~]# yum install  samba*  -y

[root@server0 ~]# systemctl  start  smb
[root@server0 ~]# systemctl  enable   smb
ln -s '/usr/lib/systemd/system/smb.service'
'/etc/systemd/system/multi-user.target.wants/smb.service'
[root@server0 ~]#
[root@server0 ~]# firewall-cmd   --permanent   --add-service=samba
success
[root@server0 ~]#
[root@server0 ~]# firewall-cmd   --reload
success
[root@server0 ~]#
[root@server0 ~]# mkdir  /publicdata
[root@server0 ~]#
[root@server0 ~]# mkdir  /privatedata
[root@server0 ~]#
[root@server0 ~]# touch  /publicdata/abc{1..3}
[root@server0 ~]#
[root@server0 ~]# touch  /privatedata/xyz{1..3}
[root@server0 ~]#
[root@server0 ~]# echo  "this is read only file"  >  /publicdata/abc1
[root@server0 ~]#
[root@server0 ~]# cat /publicdata/abc1
this is read only file
```

```
[root@server0 ~]#
[root@server0 ~]# echo  "this is my writeable file"  >
/privatedata/xyz1
[root@server0 ~]#
[root@server0 ~]# cat /privatedata/xyz1
this is my writeable file
[root@server0 ~]#
[root@server0 ~]# chmod  777  /privatedata
[root@server0 ~]#
[root@server0 ~]# useradd  alok
[root@server0 ~]#
[root@server0 ~]# useradd sachin
[root@server0 ~]#
[root@server0 ~]# smbpasswd   -a sachin
New SMB password:redhat
Retype new SMB password:redhat
Added user sachin.
[root@server0 ~]#
[root@server0 ~]# smbpasswd   -a  alok
New SMB password:redhat
Retype new SMB password:redhat
Added user alok.
[root@server0 ~]#
[root@server0 ~]# vim /etc/samba/smb.conf


On line number 95 allow the network .......


        hosts allow = 127.   172.25.0.

Now go in bottom of this file and add these lines...



        [network]
        comment = This is my public files.
        path = /publicdata
        public = yes
        writable = no
        printable = no
        browseable = yes
        [cloud]
        comment = This is my private files.
        path = /privatedata
        public = no
        writable = yes
        printable = no
        browseable = yes
        valid users = alok sachin
```

```
save and quit

[root@server0 ~]# systemctl restart  smb
[root@server0 ~]#
[root@server0 ~]#
[root@server0 ~]# testparm


[root@server0 ~]# getenforce
Enforcing
[root@server0 ~]#
[root@server0 ~]# ls -ld  /publicdata
drwxr-xr-x. 2 root root 39 Aug 26 11:46 /publicdata
[root@server0 ~]#
[root@server0 ~]# ls -ldZ  /publicdata
drwxr-xr-x. root root unconfined_u:object_r:default_t:s0 /publicdata
[root@server0 ~]#
[root@server0 ~]#
[root@server0 ~]# chcon -R -t samba_share_t  /publicdata
[root@server0 ~]#
[root@server0 ~]# chcon -R -t samba_share_t  /privatedata
[root@server0 ~]#
[root@server0 ~]# ls -ldZ  /publicdata
drwxr-xr-x. root root unconfined_u:object_r:samba_share_t:s0
/publicdata
[root@server0 ~]#
[root@server0 ~]# systemctl restart smb
[root@server0 ~]#
[root@server0 ~]# netstat -tunlp  | grep 445
tcp        0      0 0.0.0.0:445              0.0.0.0:*
LISTEN      9959/smbd
tcp6       0      0 :::445                   :::*
LISTEN      9959/smbd
[root@server0 ~]#

**********************************   Server Side is ready
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Go on Desktop Machine ...and access the samba server .... ?


First method :-  how to perform get and put operation directly  ?



[root@desktop0 ~]# ping 172.25.0.11
PING 172.25.0.11 (172.25.0.11) 56(84) bytes of data.
64 bytes from 172.25.0.11: icmp_seq=1 ttl=64 time=0.517 ms
64 bytes from 172.25.0.11: icmp_seq=2 ttl=64 time=0.943 ms
^C
--- 172.25.0.11 ping statistics ---
```

```
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.517/0.730/0.943/0.213 ms
[root@desktop0 ~]#
[root@desktop0 ~]#
[root@desktop0 ~]# yum install samba-client  -y

[root@desktop0 ~]# smbclient   -L   //172.25.0.11
Enter root's password:  {press Enter}
Anonymous login successful
Domain=[MYGROUP] OS=[Unix] Server=[Samba 4.1.1]

      Sharename       Type       Comment
      ---------       ----       -------
      network         Disk       This is my public files.
      cloud           Disk       This is my private files.
      IPC$            IPC        IPC Service (Samba Server Version
4.1.1)
Anonymous login successful
Domain=[MYGROUP] OS=[Unix] Server=[Samba 4.1.1]

      Server                Comment
      ---------             -------

      Workgroup             Master
      ---------             -------
[root@desktop0 ~]#


[root@desktop0 ~]# smbclient  //172.25.0.11/network
Enter root's password:
Anonymous login successful
Domain=[MYGROUP] OS=[Unix] Server=[Samba 4.1.1]
smb: \>
smb: \> ls
  .                                 D        0  Mon Aug 26 11:46:08
2019
  ..                                D        0  Mon Aug 26 11:45:56
2019
  abc1                              N       23  Mon Aug 26 11:46:30
2019
  abc2                              N        0  Mon Aug 26 11:46:08
2019
  abc3                              N        0  Mon Aug 26 11:46:08
2019

          40913 blocks of size 262144. 27770 blocks available
smb: \>

smb: \> get abc1
getting file \abc1 of size 23 as abc1 (11.2 KiloBytes/sec) (average
11.2 KiloBytes/sec)
smb: \>
```

```
smb: \>
smb: \>
smb: \>
smb: \> mget abc1 abc2
Get file abc1? y
getting file \abc1 of size 23 as abc1 (11.2 KiloBytes/sec) (average
11.2 KiloBytes/sec)
Get file abc2? y
getting file \abc2 of size 0 as abc2 (0.0 KiloBytes/sec) (average 9.6
KiloBytes/sec)
smb: \>
smb: \>
smb: \> prompt
smb: \>
smb: \> mget abc*
getting file \abc1 of size 23 as abc1 (22.5 KiloBytes/sec) (average
11.2 KiloBytes/sec)
getting file \abc2 of size 0 as abc2 (0.0 KiloBytes/sec) (average 10.0
KiloBytes/sec)
getting file \abc3 of size 0 as abc3 (0.0 KiloBytes/sec) (average 9.0
KiloBytes/sec)
smb: \>
smb: \> lcd  /tmp
smb: \>
smb: \> get abc1
getting file \abc1 of size 23 as abc1 (11.2 KiloBytes/sec) (average
9.4 KiloBytes/sec)
smb: \>
smb: \> exit
[root@desktop0 ~]#
[root@desktop0 ~]# ls
abc1  abc2  abc3  anaconda-ks.cfg
[root@desktop0 ~]#
[root@desktop0 ~]# ls /tmp
abc1  abc2  abc3  rht  systemd-private-QfgTWp  systemd-private-ShhUa8
[root@desktop0 ~]#

[root@desktop0 ~]# echo "testing page"  > linux
[root@desktop0 ~]#
[root@desktop0 ~]# ls
+  abc1  abc2  abc3  anaconda-ks.cfg  linux
[root@desktop0 ~]#
[root@desktop0 ~]# smbclient  //172.25.0.11/cloud  -U  alok
Enter alok's password:
Domain=[MYGROUP] OS=[Unix] Server=[Samba 4.1.1]
smb: \>
smb: \> ls
  .                                   D        0  Mon Aug 26 11:46:15
2019
  ..                                  D        0  Mon Aug 26 11:45:56
2019
```

```
  xyz1                                    N       26  Mon Aug 26 11:47:44
2019
  xyz2                                    N        0  Mon Aug 26 11:46:15
2019
  xyz3                                    N        0  Mon Aug 26 11:46:15
2019

          40913 blocks of size 262144. 27770 blocks available
smb: \>


smb: \> get xyz1
getting file \xyz1 of size 26 as xyz1 (12.7 KiloBytes/sec) (average
12.7 KiloBytes/sec)
smb: \>
smb: \> put  linux
putting file linux as \linux (12.7 kb/s) (average 12.7 kb/s)
smb: \>
smb: \> ls
  .                                       D        0  Mon Aug 26 12:31:17
2019
  ..                                      D        0  Mon Aug 26 11:45:56
2019
  xyz1                                    N       26  Mon Aug 26 11:47:44
2019
  xyz2                                    N        0  Mon Aug 26 11:46:15
2019
  xyz3                                    N        0  Mon Aug 26 11:46:15
2019
  linux                                   A       13  Mon Aug 26 12:31:17
2019

          40913 blocks of size 262144. 27770 blocks available
smb: \>
smb: \> exit

[root@desktop0 ~]# ls
abc1  abc2  abc3  anaconda-ks.cfg  linux  xyz1
[root@desktop0 ~]#

how to perform mounting steps....


[root@desktop0 ~]# mkdir  /read
[root@desktop0 ~]#
[root@desktop0 ~]# mkdir  /write
[root@desktop0 ~]#
[root@desktop0 ~]# yum install  cifs-utils  -y

[root@desktop0 ~]# mount -t cifs  //172.25.0.11/network  /read -o
guests
[root@desktop0 ~]#
```

```
[root@desktop0 ~]#
[root@desktop0 ~]# ls /read
abc1   abc2   abc3
[root@desktop0 ~]#
[root@desktop0 ~]# mount -t cifs  //172.25.0.11/cloud  /write  -o
username=alok
Password for alok@//172.25.0.11/cloud:  redhat
[root@desktop0 ~]#
[root@desktop0 ~]# ls /write
linux xyz1 xyz2  xyz3
[root@desktop0 ~]# vim  /etc/fstab

//172.25.0.11/network     /read         cifs    defaults,guests   0 0
//172.25.0.11/cloud       /write        cifs
defaults,username=alok,password=redhat    0 0


save and quit
[root@desktop0 ~]# mount -a
[root@desktop0 ~]#
[root@desktop0 ~]# df  -TH
Filesystem            Type       Size  Used Avail Use% Mounted on
/dev/vda1             xfs         11G  3.3G  7.6G  31% /
devtmpfs              devtmpfs   950M     0  950M   0% /dev
tmpfs                 tmpfs      966M   82k  966M   1% /dev/shm
tmpfs                 tmpfs      966M   18M  948M   2% /run
tmpfs                 tmpfs      966M     0  966M   0% /sys/fs/cgroup
//172.25.0.11/network cifs        11G  3.5G  7.3G  33% /read
//172.25.0.11/cloud   cifs        11G  3.5G  7.3G  33% /write
[root@desktop0 ~]#

[root@desktop0 ~]# ls  /read
abc1   abc2   abc3
[root@desktop0 ~]# cat   /read/abc1
this is read only file
[root@desktop0 ~]#
[root@desktop0 ~]# touch  /read/abc4
touch: cannot touch â€˜/read/abc4â€™: Permission denied
[root@desktop0 ~]#
[root@desktop0 ~]#
[root@desktop0 ~]# ls  /write
linux xyz1  xyz2  xyz3
[root@desktop0 ~]#
[root@desktop0 ~]# touch  /write/xyz5
[root@desktop0 ~]# cp -rf  /home  /write
[root@desktop0 ~]#
[root@desktop0 ~]# ls /write
home  linux  xyz1  xyz2  xyz3  xyz5
[root@desktop0 ~]#

How to pass username and password with file method?
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```
[root@desktop0 ~]# vim  /root/username.txt

username=alok
password=redhat

savd and quit

[root@desktop0 ~]#
[root@desktop0 ~]# vim  /etc/fstab

//172.25.0.11/cloud        /write         cifs
defaults,credentials=/root/username.txt    0   0

save and quit
[root@desktop0 ~]# mount -a
[root@desktop0 ~]#
[root@desktop0 ~]# df  -TH
Filesystem             Type      Size  Used Avail Use% Mounted on
/dev/vda1              xfs        11G  3.3G  7.6G  31% /
devtmpfs              devtmpfs  950M     0  950M   0% /dev
tmpfs                 tmpfs     966M   82k  966M   1% /dev/shm
tmpfs                 tmpfs     966M   18M  948M   2% /run
tmpfs                 tmpfs     966M     0  966M   0% /sys/fs/cgroup
//172.25.0.11/network cifs       11G  3.5G  7.3G  33% /read
//172.25.0.11/cloud   cifs       11G  3.5G  7.3G  33% /write
[root@desktop0 ~]#


On Server machine

[root@server0 ~]# ls /publicdata
abc1   abc2   abc3
[root@server0 ~]#
[root@server0 ~]# ls /privatedata
home   linux  xyz1   xyz2   xyz3   xyz5
[root@server0 ~]#
[root@server0 ~]# firefox



smb://172.25.0.11



How to Access samba on any windows  machine:---


Run:------            \\172.25.0.11\network

      or
```

```
\\172.25.0.11\cloud


                        username: alok
                        password: redhat

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