

## Class 24

Samba server = it is use to share the data between cross platform (window-linux)

Share the data

Linux - linux = nfs

Window - window

Linux = window

Port = 137,138,139,445

Configuration file = /etc/samba/smb.conf

Service name = smb (service message block) - access from IP , nmb (netbios) = access from name

Log file = /var/log/samba/%m.log

Filesystem = cifs (common internet file system )

Package name = samba

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Yum install samba\* -y

2 type security

1.firewall

2. selinux

Firewall-cmd --permanent --add-service=samba

Firewall-cmd - -reload

Systemctl restart smb

Systemctl restart nmb

Systemctl enable smb

Systemctl enable nmb

Setenforce 0 = off the selinux

Go to the window

Run - [\\192.168.1.7](http://192.168.1.7)

Samba has own user

Useradd carlos

Smbpasswd -a carlos (a = add)

See the all samba user

Pdbedit -L

Remove from samba

Smbpasswd -x carlos (-x =exclude)

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Share the common directory

/software

Mkdir /software = touch aa bb cc

Chmod 777 /software

Vim /etc/samba/smb.conf

[sales]

comment = important software

path = /software

public = yes

writable = yes

:wq

Systemctl restart smb

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Allow the specific user

Carlos , purna

Purna allow

Vim /etc/samba/smb.conf

valid users = purna

valid users = @hr = group entry

:wq

Systemctl restart smb

Delete the saved username and password in window

Cmd = net use \* /delete /yes

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Deny .exe file

Vim /etc/samba/smb.conf

Veto files = /\*.exe/\*.mp3/\*.pdf

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Linux – window

Window - linux

Username = rathore

Password = pari

Ip = 192.168.1.6

Linux = smbclient -L 192.168.1.6 -U rathore

Password

Access the share data

Mounting

Temporary mounting

```
Mount -t cifs //192.168.1.6/mydata -o username=rathore,password=pari /mnt
```

Permanent mounting

Vim /etc/fstab

```
//192.168.1.6/mydata /mnt cifs defaults,username=rathore,password=pari 0 0
```

:wq

Mount

If client change password again and again

Vim /etc/myclient

Username =rathore

Password=pari

:wq

Vim /etc/fstab

```
//192.168.1.6/mydata /mnt cifs defaults,credentials=/etc/myclient 0 0
```

:wq

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FTP server (file transfer protocol) = it is use to share the data from 1 host to another host over tcp based network

Configuration file = /etc/vsftpd/vsftpd.conf

Package name = vsftpd (very secure file transfer protocol demon)

Port no = 20 = share the data , 21 = make the connection

Log file = /var/log/xferlog

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Yum install vsftpd\* -y

Firewall-cmd --permanent --add-port=20-21/tcp

Firewall-cmd --reload

Or systemctl stop firewall

Access the data

Go to browser = <ftp://192.168.1.7> (linux)

Install the ftp package = user = anonymous

User = system user

Enable the anonymous

Vim /etc/vsftpd/vsftpd.conf

12 anonymous\_enable=YES

:wq

Systemctl restart vsftpd

Install ftp = /var/ftp/pub

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Login from another users in filezilla

Aa

Bb

Cc

---

Deny the user

Cd /etc/vsftpd

Vim user\_list

Aa

Bb

:wq

Systemctl restart vsftpd

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Allow specific user

Aa

Vim /etc/vsftpd/vsftpd.conf

Userlist\_deny=NO

:wq

Systemctl restart vsftpd

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Upload the data in ftp

Cd pub

Mkdir upload

Chmod 777 upload

Vim /etc/vsftpd/vsftpd.conf

Uncomment 28 and 32 line

:wq

Systemctl restart vsftpd

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Client cant upload the exe file

Vim /etc/vsftpd/vsftpd.conf

Deny\_file={\*.exe,\*.pdf}

:wq

Systemctl restart vsftpd

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Change the port number

Vim /etc/vsftpd/vsftpd.conf

Listen\_port =2121

Allow in firewall = firewall-cmd --permanent --add-port=2121/tcp

Fire3wall-cmd --reload

Allow in selinux = semange port -a -t ftp\_port\_t -p tcp 2121

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Allow the root user in ftp

Vim /etc/vsftpd/user\_list

Vim /etc/vsftpd/ftpusers

Remove the root

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Sftp (ssh ftp)

ftp share the data in plain text but sftp in encrypted form

port no =22

conf file = /etc/ssh/sshd\_config

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vim /etc/ssh/sshd\_config

138 #Subsystem sftp /usr/libexec/openssh/sftp-server

139 subsystem sftp internal-sftp

:wq

Systemctl restart sshd

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Samba , ftp , sftp

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