

WELCOME TO THE WORLD OF LINUX

DAY-11



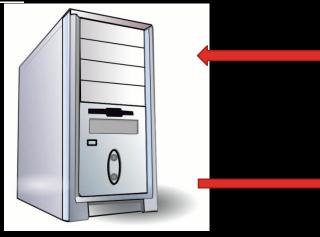
Accessing Network Storage with SMB

What is SMB

SMB stands for "**Server Message Block**". SMB is a protocol, which is used for sharing files, printers over the network for Desktop Operating System. SMB protocol is designed by IBM in 1985. One version of SMB was also known as **CIFS** (**Common Internet File System**), designed by Microsoft for windows environment. RedHat Enterprise Linux uses the 'Samba Server' provide services that Microsoft windows clients can use. Samba Server use SMB and CIFS.

SMB versions are:-

- SMB 1.0
- SMB 2.0
- SMB 2.1
- SMB 3.0
- SMB 3.0.2
- SMB 3.1.1







Accessing Network Storage with SMB

Required task for setting up SMB share

- Create the share on the Linux File System.
- Grant Access Permissions on the Linux File System.
- Create the Share in '/etc/samba/smb.conf'.
- Configure Security into '/etc/samba/smb.conf'.
- Start 'Samba' Server.

Configuring SAMBA Server

```
# mkdir /smbshare
# chmod 777

# yum search samba
# yum install samba*

# vim /etc/samba/smb.conf

Type down the following end of the line, save and exit.

[smbshare]

comment = My Samba Share

path = /smbshare

public = yes

writable = yes

printable = yes

browseable = yes
```

[Create a dir to share]
[Given full permission to the dir]
[To search samba packeges]
[To install Samba Package]



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```
# II -Zd /smbshare/
                                                 [To check the SELinux Context]
                                                 [To change the SELinux context of the folder]
# chcon -R -t samba_share_t /smbshare/
                                                 [To check the SELinux Context]
# II -Zd /smbshare/
# smbpasswd -a subha
                                                 [To add samba user, which should be already
exist]
# systemats start smb
                                                 [To start the SMB service]
# systemctl enable smb
                                                 [To enable the SMB service]
# smbclient -L //10.10.10.1
                                                 [To verify samba shares]
                                                 [To verify with user login]
# smbclient //10.10.10.1/smbshare -U subha
```

Required task for setting up SMB share

```
# yum install samba-client cifs-utils [To install Client Package]
# Mkdir /smbdata
# mount -t cifs -o guest //10.10.10.1/smbshare /smbdata/
# mount -t cifs -o username=subha //10.10.10.1/smbshare /smbdata/
```



THANK YOU