

AINUX

— TASTE OF LINUX —

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 packages]

[To install Samba Package]

Accessing Network Storage with SMB

```
# ll -Zd /smbshare/  
# chcon -R -t samba_share_t /smbshare/  
# ll -Zd /smbshare/  
# smbpasswd -a subha  
exist]  
# systemctl start smb  
# systemctl enable smb  
# smbclient -L //10.10.10.1  
# smbclient //10.10.10.1/smbshare -U subha
```

[To check the SELinux Context]
[To change the SELinux context of the folder]
[To check the SELinux Context]
[To add samba user, which should be already
exist]
[To start the SMB service]
[To enable the SMB service]
[To verify samba shares]
[To verify with user login]

Required task for setting up SMB share

```
# yum install samba-client cifs-utils  
# 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/
```

[To install Client Package]



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THANK YOU