

Samba Server 보충 자료

Samba Server 구축하기

- Samba Server 필요성

- 업무용 컴퓨터로 Windows를 사용하는 사무 환경에서 파일 서버가 필요하다.
- Windows Server를 사용하면 제일 좋지만 라이선스 문제 때문에 Linux를 파일 서버로 구성할 때 바로 Samba Server로 구축한다

- Samba Server 설치하기

- `yum install -y samba samba-client cifs-utils`

- samba: samba server용
- samba-client: samba server에 접속하는 linux client용
- cifs-utils: `mount -t cifs -o username=root //192.168.18.134/public /mnt`로 마운트할 때 사용

- Samba 서비스 시작하기

- `systemctl start smb`
- `systemctl start nmb`
- `systemctl enable smb`
- `systemctl enable nmb`

The **smbd** service provides file sharing and printing services and listens on TCP ports **139 and 445**.

The **nmbd** service provides **NetBIOS over IP naming services** to clients and listens on UDP port **137**.

Samba Server 구축하기

- 공유할 폴더 생성하기

- `mkdir /samba`
- `chmod 777 /samba`
- `touch /samba/test.txt`

Samba uses Linux users and group permission system but it has its own authentication mechanism separate from the standard Linux authentication.

We will create the **users using the standard Linux useradd tool** and then **set the user password with the smbpasswd utility**.

- Samba Server를 이용할 user 및 group 생성하기

- `groupadd sambashare`
- `chgrp sambashare /samba`
- `useradd -M -d /samba/josh -s /usr/sbin/nologin -G sambashare josh`
 - **-M** -do not create the user's home directory. We'll manually create this directory.
 - **-d /samba/josh** - set the user's home directory to /samba/josh.
 - **-s /usr/sbin/nologin** - **disable shell access** for this user.
 - **-G sambashare** - add the user to the sambashare group.

Samba Server 구축하기

- Samba Server를 이용할 user 및 group 생성하기
 - **mkdir /samba/josh**
 - **chown** josh:sambashare /samba/josh
 - **chmod 2770** /samba/josh
 - **smbpasswd -a** josh
 - Add the josh user account to the Samba database by setting the user password.
 - **smbpasswd -e** josh
 - Once the password is set, **enable the Samba account** by typing:
 - **useradd -M -d /samba/users -s /usr/sbin/nologin -G sambashare**
sadmin
 - **smbpasswd -a** sadmin
 - **smbpasswd -e** sadmin
 - **mkdir /samba/users**
 - create the Users share directory:

Samba Server 구축하기

- Samba Server를 이용할 user 및 group 생성하기
 - **chown** sadmin:sambashare /samba/users
 - Set the directory ownership to user sadmin and group sambashare.
 - This directory will be accessible **by all authenticated users**.
 - **chmod 2770** /samba/users
 - This command configures write/read access to **members of the sambashare group** in the /samba/users directory:
- touch /samba/josh/josh.file
- touch /samba/users/users.file

Samba Server 구축하기

- Samba Server 구성하기

- vi **/etc/samba/smb.conf**

```
[users]
  path = /samba/users
  browseable = yes
  read only = no
  force create mode = 0660
  force directory mode = 2770
  valid users = @smbshare @sadmin
```

```
[josh]
  path = /samba/josh
  browseable = no
  read only = no
  force create mode = 0660
  force directory mode = 2770
  valid users = josh @sadmin
```

- systemctl restart **smb**
 - systemctl restart **nmb**

Samba Server 구축하기

- Samba Server 구성하기
 - 설명

[users] and [josh] - The names of the shares that you will use when logging in.

path - The path to the share.

browseable - Whether the share should be listed in the available shares list.

By setting to no other users will not be able to see the share.

read only - Whether the users specified in the valid users list are able to write to this share.

force create mode - Sets the permissions **for the newly created files in this share.**

force directory mode - Sets the permissions **for the newly created directories in this share.**

valid users - A list of users and groups that are allowed to access the share. **Groups are prefixed with the @ symbol.**

Samba Server 구축하기

- Linux에서 Samba share에 연결하기
 - `yum install -y samba-client cifs-utils`
 - `smbclient -L 192.168.121.118 -U josh`
 - 공유 목록 확인하기
 - `smbclient //192.168.121.118/josh -U josh`
 - 파일 다운로드 및 업로드하기(##좀 불편하다)
 - `smb: \> ls`
 - `smb: \> get file1.txt`
 - `smb: \> !ls`
 - `smb: \> put file2.txt`
 - `smb: \> ls`
 - `smbclient -L 192.168.121.118 -U sadmin`
 - `smbclient //192.168.121.118/users -U sadmin`
 - `smb: \> ls`

Samba Server 구축하기

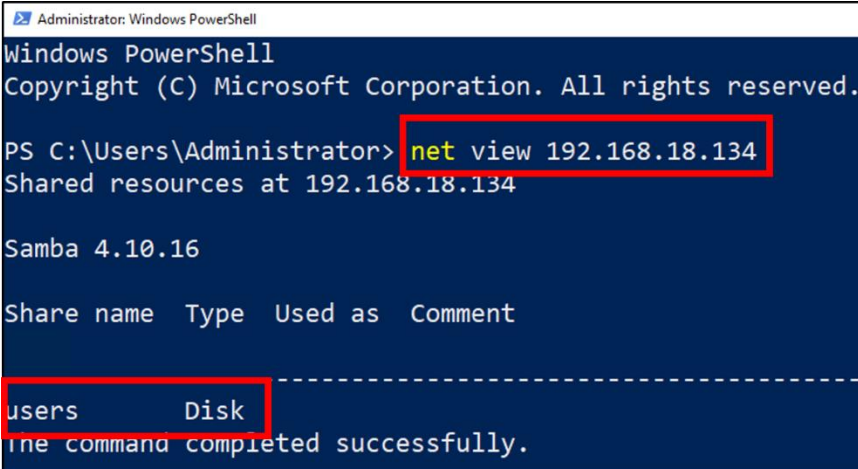
- Mount하여 사용하기
 - mkdir /mnt/smbmount
 - **mount -t cifs -o username=josh //192.168.121.118/josh**
[/mnt/smbmount](#)
 - ls -l /mnt/smbmount
 - touch /mnt/smbmount/hi.txt

Samba Server 구축하기

- Windows에서 Samba share에 연결하기

- net view 192.168.121.118**

- 공유 이름 확인하기
 - josh는 안보인다



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> net view 192.168.18.134
Shared resources at 192.168.18.134

Samba 4.10.16

Share name  Type  Used as  Comment
-----
users       Disk
The command completed successfully.
```

- net use x: \\192.168.121.118\josh /user:josh**

- X:
 - dir

Samba Server 구축하기

- Windows에서 Samba share에 연결하기
 - Windows 탐색기에서 접속하기

