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## Freebsd Mount a NAS via SMB / CIFS

Posted by [Vivek Gite](#) <[vivek@nixcraft.com](mailto:vivek@nixcraft.com)>



**Q.** I want to use our NAS server to store backups. Our NAS supports FTP and CIFS / SMB sharing technology. How do I mount and store files on NAS using FreeBSD? How do I automate entire procedure using a shell script? Is that doable? If so, what's the easiest solution ftp or CIFS?

**A.** The mount\_smbfs command mounts a share from a remote server using SMB/CIFS protocol. You can easily mount NAS share using the following syntax:

```
mount_smbfs -I 1.2.3.4 //username@nasserver/share /path/to/local/mnt
```

Mount data share from nas05 nas server at /nas05 directory, enter:

```
# mkdir /nas05
# mount_smbfs -I 10.1.2.3 //vivek@nas05/data /nas05
```

You will be prompted for your password. Once this happens you can change to the directory and view the contents using cd and ls command.

```
# cd /nas05
# ls
# cp /path/to/file .
# ls -l
```

Where,

1. **-I 10.1.2.3** : Do not use NetBIOS name resolver and connect directly to host, which can be either a valid DNS name or an IP address.
2. **vivek** : Your user name.
3. **nas05** : NETBIOS Server Name.
4. **/data** : CIFS share name.
5. **/nas05** : Local mount point directory.

## Avoid password prompt

You need to create a ~/.nsmbrc file as follows:

```
# vi ~/.nsmbrc
```

Set username and password as follows:

```
[NAS05:VIVEK]
password=myPassword
```

Now mount NAS as follows:

```
# mount_smbfs -N -I 10.1.2.3 //vivek@nas05/data /nas05
```

The -N option forces to read a password from ~/.nsmbrc file. At run time, mount\_smbfs reads the ~/.nsmbrc file for additional configuration parameters and a password. If no password is found, mount\_smbfs prompts for it. You need to use the -N option while writing a shell script.

### See also:

- See how to mount NAS and backup mysql to nas server - automate [backup procedure using a shell script](#) <sup>[2]</sup> under FreeBSD.

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URLs in this post:

[1] Image: <http://www.cyberciti.biz/faq/category/freebsd/>

[2] backup procedure using a shell script: <http://bash.cyberciti.biz/mysql/freebsd-nas-backup-mysql-shell-script/>

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