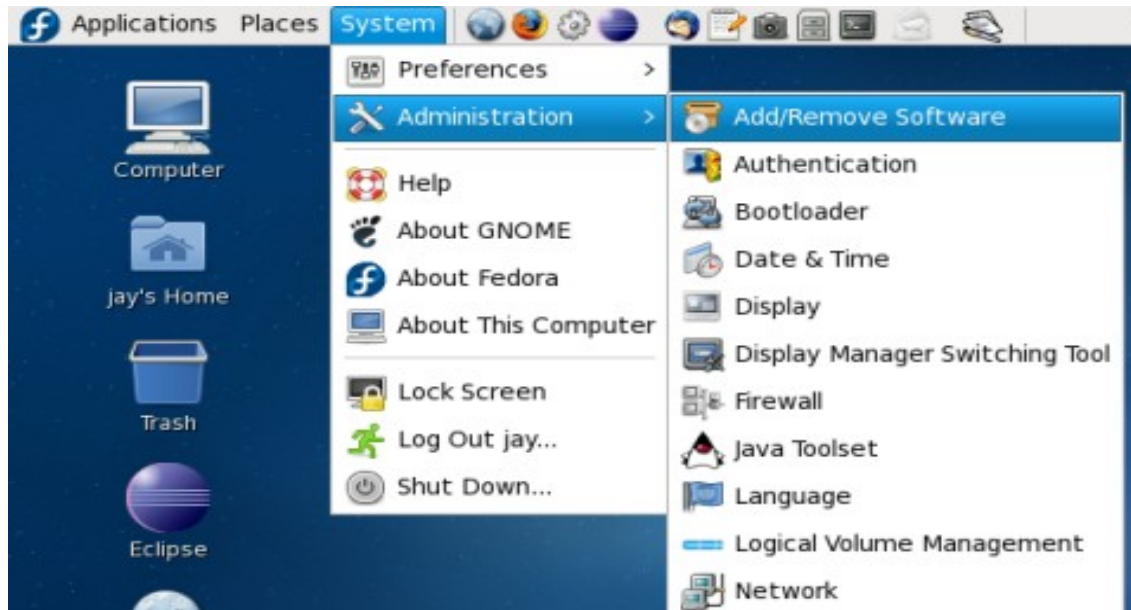


Setting Up Samba on Fedora and FreeBSD 7

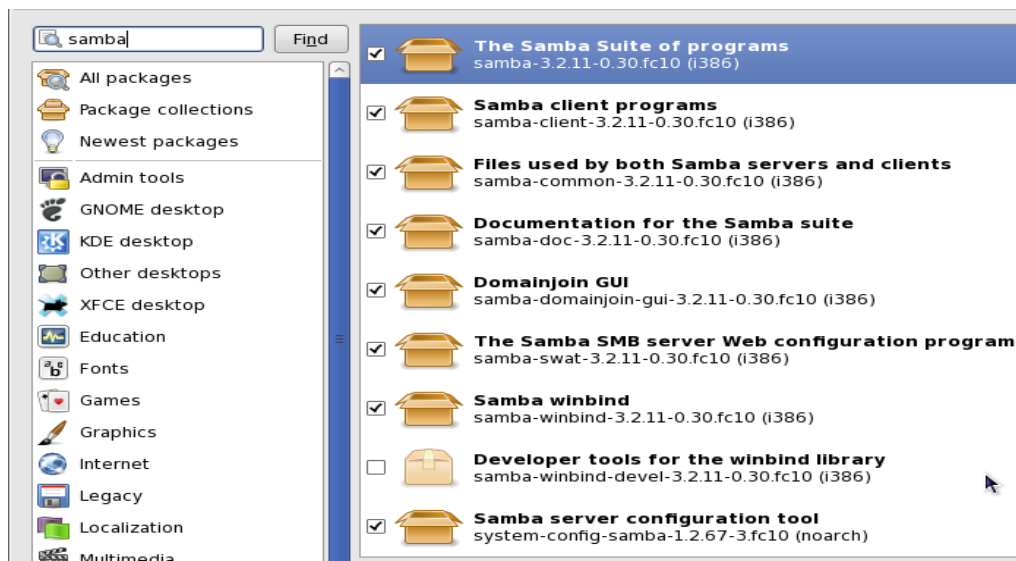
The following discussion assumes that the you are logged in as an administrator (root). If you are not, you will need to be a member of *sudo users* and you will need to add **sudo** to the beginning of most commands.

Installing Samba - Fedora 8, 9 and 10

1. Start the *Package Manager* from the *Add/Remove Software* entry on the *System/Administration* menu:



2. Enter **samba** in the search box in the upper left column and click **Find**. When the search has completed, scroll down to the package named **The Samba Suite of programs**. If the **samba** packages are not already installed, check the missing packages and click the **Apply** button at the bottom right:



3. Close the software updater and continue to the section labeled **Configuring Samba**.

Installing Samba - FreeBSD 7

Since the Samba server is supported by the FreeBSD operating system, there are 2 methods for installing the Samba server:

Package System

Use the FreeBSD Package System (*sysinstall*) to install the pre-configured package

Ports Collection

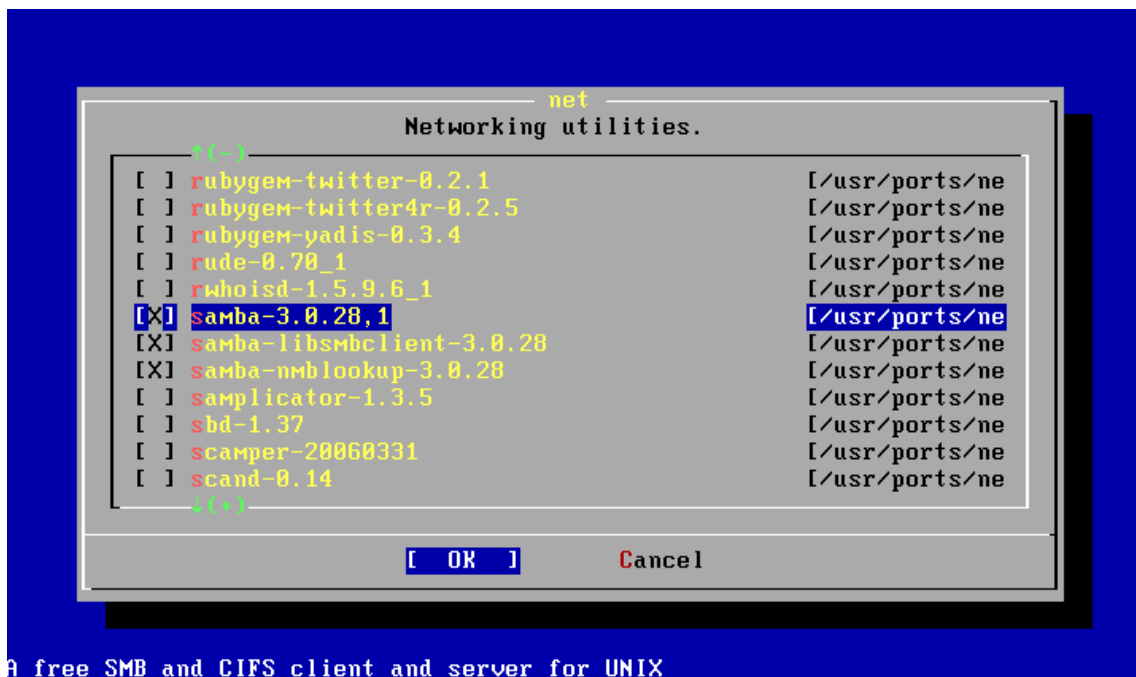
Use the FreeBSD Ports collection to compile (*make*) and install the Samba server

Each has its advantages and disadvantages. The **Samba package** is pre-configured and can be maintained automatically by the package system. The **Samba port** is configured for use with FreeBSD, but needs to be compiled and is harder to maintain.

Installing the Samba Package

The system utility *sysinstall* is used to install the package from the package system.

Refer to the **Using Sysinstall To Install A Package** document to navigate to the Net package directory and select the following 3 packages to install:



When the installation has been completed, proceed to the section titled **Configuring Samba**

Installing from the Ports Collection

The following discussion assumes that the Ports collection was installed with the operating system. If it has not been installed, it can be installed from the *Sysinstall* utility, or you can use the *Sysinstall* utility to install the **Samba** package.

1. Switch to the **Samba** ports directory. This is currently **/usr/ports/net/samba3**

2. make and install the **Samba** server and utilities:

make ; make install

3. This should complete the installation. If the Ports installation fails, make sure that all dependencies have been met, and retry the install, or try using the **Sysinstall** utility to install **Samba** from a package.

Configuring Samba

1. **On FreeBSD 7 systems,**

Copy the file

to `/usr/local/share/examples/samba/smb.conf.default`
to `/usr/local/etc/smb.conf`

Navigate to the `/usr/local/etc` folder

On Fedora systems,

Navigate to the `/etc/samba` folder

2. Edit the file **smb.conf**. In the `[global]` section, modify, at a minimum, the following entries.

workgroup	set to the name of your Windows workgroup
netbios name	set to the name of the Windows NetBios Name
hosts allow	list of host which will be allowed access
interfaces	network interfaces which can access
security	set to user for restricting user's to their home directory share

The following **sample** file illustrates user-based security, where each user is logged into a folder in their home directory. Also, the Windows share is **not** in a **Windows Active Directory**:

```
[global]
workgroup = ewdesigns
netbios name = FreeBSD
server string = FreeBSD Samba Server Version %v

hosts allow = 192.168.11. 127.
interfaces = le0 eth0 192.168.11.114

log file = /var/log/samba/log.%m
max log size = 50

security = user
passdb backend = tdbsam

local master = yes
os level = 33
preferred master = yes

wins support = yes
```

```
dns proxy = no

logon home = \\%L%\%u\profiles
logon path = \\%L\profiles\%u
logon drive = H:

[netlogon]
path = /var/lib/samba/netlogon
read only = yes
browsable = no

[profiles]
path = /var/lib/samba/profiles
read only = no
create mask = 0600
directory mask = 0700

[homes]
comment = Home Directories
browseable = no
writable = yes
```

Save the modified file.

3. Create the directories and set the permissions for the Samba shares defined above:

```
mkdir -p /var/lib/samba
mkdir /var/lib/samba/{netlogon,profiles}
chown -R root /var/lib/samba
chmod 0755 /var/lib/samba/netlogon
chmod 1755 /var/lib/samba/profiles
```

4. In order to have access to a share on the server, users must be added to the **Samba** database using the **smbpasswd** command.

- To add a new user,

```
smbpasswd -a <username>
```

where **<username>** is the name of the FreeBSD/Fedora user. You will be prompted for a password. It does not need to be the same as the Windows password.

- To modify the user password, as root,

```
smbpasswd -u <username>
```

You will be prompted for the new password.

- For a user to modify their own password,

```
smbpasswd
```

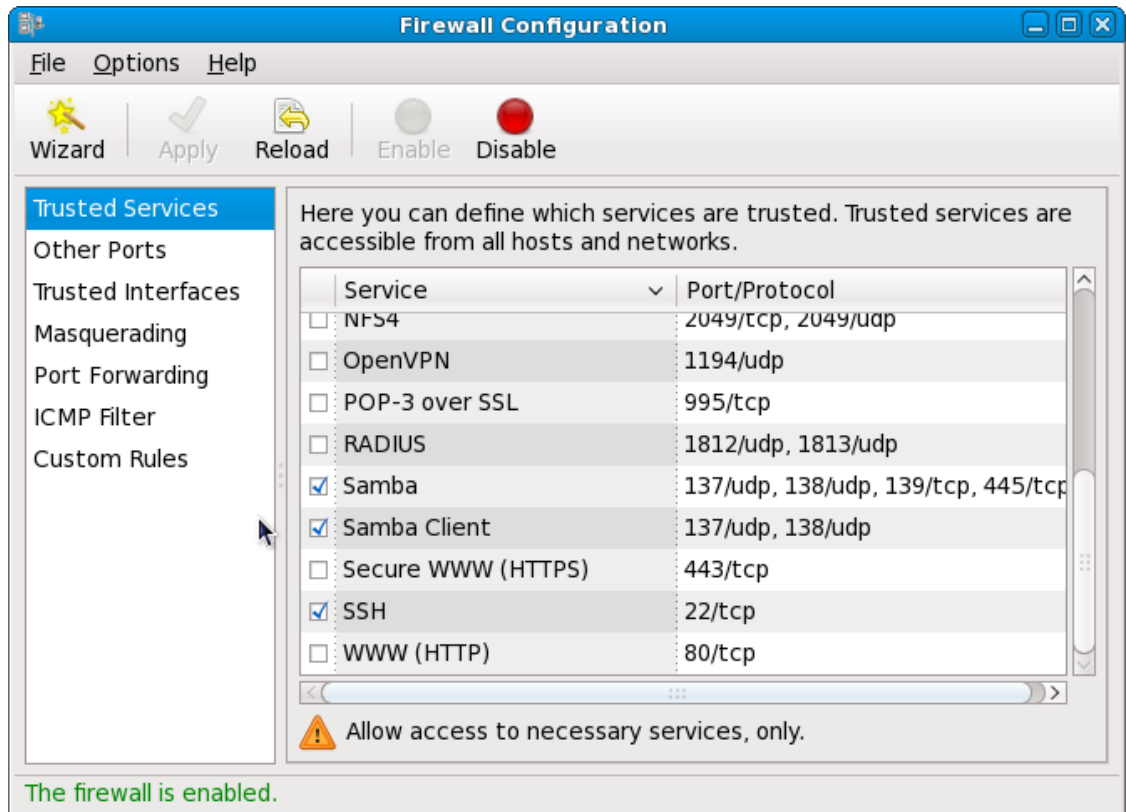
In this case, the old (current) password must be provided before the new password will be requested.

5. On Fedora systems,

Select the **Firewall** item on the *System/Administration* menu:



Set *Trusted Services* for **Samba** in the system firewall:



On FreeBSD 7 systems,

Make sure that the **UDP** ports *137* and *138*, and **TCP** ports *139* and *445* are unblocked in the firewall rules set.

6. On FreeBSD 7 systems,

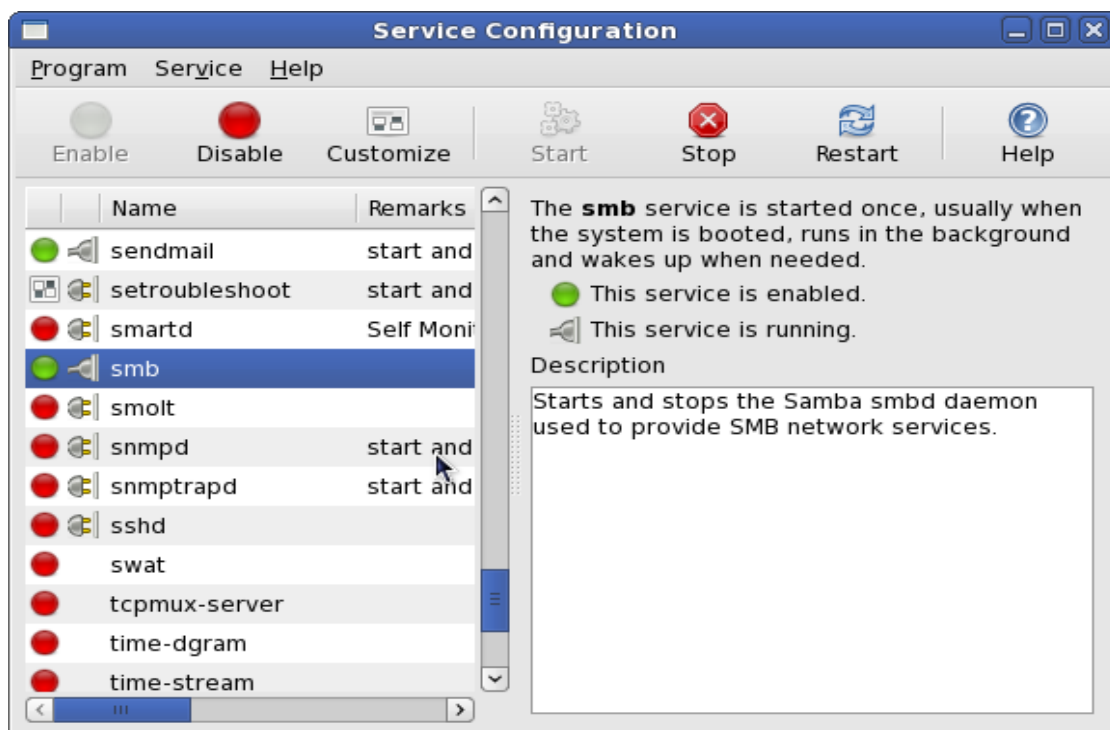
Navigate to the `/etc` folder and open the file named `rc.conf`. At the end of this file, add the following line:

samba_enable = "YES"

Reboot the system to start the server.

On Fedora systems,

Start the **Service Configuration** manager from the **System/Administration/Services** menu item. Scroll down to the **smb** entry, make sure that it is enabled, then click the **Start** button on the top line menu:



To make sure that the server is automatically started on each reboot, click the **Customize** button on the top line menu and set the automatic startup request for each run level requiring auto start:



Mounting A Windows Share From The Server

With Samba installed and running, it is possible to mount a network Windows Share from the server.

1. Make sure that the Windows shares which you desire are visible with the **Samba *smbclient*** utility:

`smbclient -L <windows-server-name> -U <windows-user-name>`

If the shares are visible, you will be asked to supply the windows-user-password, and information similar to the following should be displayed:

```
SUN# smbclient -L /jays -U jay
Password:
Domain=[JAYS] OS=[Windows 5.11] Server=[Windows 2000 LAN Manager]

  Sharename      Type      Comment
  -----      -
  IPC$           IPC       Remote IPC
  VirtualShared  Disk     Remote Admin
  ADMIN$        Disk     Remote Admin
  C$            Disk     Default share
Domain=[JAYS] OS=[Windows 5.11] Server=[Windows 2000 LAN Manager]

  Server          Comment
  -----
  Workgroup       Master
SUN#
```

2. Make sure that a *Mount Point* directory exists on the file system.

For example, to mount the **VirtualShared** share shown above, you might create a *mount point* named **/VirtualShared**.

3. Mount the share using the **Samba *cifs*** protocol:

On FreeBSD systems,

`mount_smbfs -l <server-address> //<username>@<servername>/<sharename> /<mount-point>`

where `-l <server-address>` instructs the software to ignore the **netbios name** and use the address instead. Use this if you have problems connecting without it.

You will be prompted for the Windows password.

For example, to mount the Windows share discussed above, the following command could be used:

```
mount_smbfs -l 192.168.11.110 //jay@jays/VirtualShared /VirtualShared
```

On Fedora systems,

```
mount -t cifs //<servername>/<sharename> /<mount-point> -o <options>
```

For example, to mount the Windows share discussed above for read/write access, the following command could be used:

```
mount -t cifs //jays.ewdesigns.lan/VirtualShared /VirtualShared -o rw,user=jay,password=mypass
```

4. Check the visibility of the newly mounted share:

```
df -h /VirtualShared
```

If the share has been mounted, you should receive output similar to the following:

```
SUN# df -h /VirtualShared
Filesystem                Size      Used    Avail Capacity  Mounted on
//JAY@JAYS/VIRTUALSHARED  146G     138G     8.1G     94%    /VirtualShared
SUN# █
```