

## 1. Install Samba

- Update package lists:

Bash

```
sudo apt update
```

- Install Samba:

Bash

```
sudo apt install samba samba-common-bin
```

## 2. Configure Samba

- Edit the Samba configuration file:

Bash

```
sudo nano /etc/samba/smb.conf
```

- Make necessary changes:

- [global] section:
  - workgroup = WORKGROUP (Replace with your desired workgroup name)
  - security = user
  - encrypt passwords = yes
  - passdb backend = tdbsam
- Create a share (example: "my\_share"):

```
[my_share]
path = /path/to/your/share/directory
public = yes
writable = yes
guest ok = yes
read only = no
create mask = 0664
directory mask = 0775
```

- Replace `/path/to/your/share/directory` with the actual path to the directory you want to share.
- Adjust permissions (create mask, directory mask) according to your needs.

- Save and close the `smb.conf` file.

### 3. Create Samba User Accounts

- Create a new user (optional):

Bash

```
sudo adduser <username>
```

- Set Samba password for the user:

Bash

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

### 4. Restart Samba

- Restart the Samba service:

Bash

```
sudo systemctl restart smbd
```

Bash

```
sudo systemctl restart nmbd
```

### 5. Test the Samba Share

- On a Windows machine:
  - Open File Explorer.
  - In the address bar, type `\\<server_name>` (replace `<server_name>` with the hostname or IP address of your Linux server).
  - You should see the shared folder ("my\_share" in this example).
  - Try to access and modify files within the shared folder.

### 6. Troubleshooting

- Check Samba logs:

Bash

```
sudo tail -f /var/log/samba/log.smbd
```

- Use `smbclient` to test connectivity:

Bash

```
smbclient //<server_name>/my_share -U <username>
```