

Setting up Debian based Linux PC with Fingerprint Authentication

Here's the complete step-by-step guide including cosmic-greeter setup for fingerprint login on Pop!_OS

Fingerprint Setup on Pop!_OS (Lenovo ThinkPad with COSMIC)

1. Install Required Packages

```
sudo apt update && sudo apt install fprintd libpam-fprintd
```

2. Reinstall cosmic-greeter (if needed). Ensure the login manager is working:

```
sudo apt install --reinstall cosmic-greeter
```

3. Enable Fingerprint in PAM

```
sudo pam-auth-update
```

4. Use arrow keys to select "Fingerprint authentication". Press Space, then Tab → Enter

5. Enroll Your Fingerprint

```
fprintd-enroll
```

6. Swipe your finger until you see enroll-completed. You can specify a finger

```
fprintd-enroll -f right-index-finger
```

7. Reboot

```
sudo reboot
```

After reboot

1. Go to Settings > Users — you should see "Fingerprint Login" enabled
2. Use Fingerprint
3. At login: Swipe instead of typing password
4. For sudo: Run `sudo ls` and use your finger

Troubleshooting

1. No fingerprint option?
`sudo pam-auth-update --enable fprintd`

BIOS conflict (ThinkPad):

Enter BIOS → **Security** → **Fingerprint** → Disable "**Predesktop Authentication**"

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