

■ Quick Guide: Recover Data on Linux

■■ Warning

Stop writing to the affected disk immediately. Data recovery is less likely after overwriting.

1. Identify Device

Note the correct device name.

```
lsblk  
sudo fdisk -l
```

2. Create a Disk Image

Creates a safe image for analysis.

```
sudo ddrescue /dev/sdX /mnt/recovery/image.img /mnt/recovery/logfile
```

3. Recover Partitions

Interactive recovery tool for lost partitions.

```
sudo testdisk /mnt/recovery/image.img
```

4. Recover Files

Recovers individual files by type.

```
sudo photorec /mnt/recovery/image.img
```

5. Verify Recovery

Check recovered data.

```
ls /mnt/recovery/recup_dir.*
```