

## SSD Setup Summary (Ubuntu)

### Objective:

Configure a 1TB external SSD for clean Linux usage (EXT4) with auto-mount.

### Detection:

- Internal disk: /dev/sda
- External disk: /dev/sdb (~931GB)
- Main partition: /dev/sdb2

### Initial State:

- Format: NTFS (Windows)
- Contents: \$RECYCLE.BIN, System Volume Information
- Conclusion: no useful data

### Safety Verification:

Used lsblk -f to confirm:

- /dev/sda3 = Linux system (do not touch)
- /dev/sdb2 = external SSD (safe to format)

### Formatting:

```
sudo umount /dev/sdb2  
sudo mkfs.ext4 /dev/sdb2
```

### Mount Setup:

```
sudo mkdir -p /mnt/ssd  
sudo mount /dev/sdb2 /mnt/ssd
```

### Permissions:

```
sudo chown -R nodesrv:nodesrv /mnt/ssd
```

### Auto-mount (fstab):

```
UUID=74ba5f52-df6c-4b8f-b694-27e7620f4169 /mnt/ssd ext4 defaults 0 2
```

### Activation:

```
sudo systemctl daemon-reexec  
sudo mount -a
```

### Final Result:

- EXT4 formatted SSD

- Mounted at /mnt/ssd
- Auto-mount on boot
- Ready for server use

Best Practices:

- Always verify disks before formatting
- Never touch system disk (/dev/sda)
- Always umount before unplugging