

## How extend the root file system:

We are having two methods

1. By install the gparted (for standard partitions it was best method, no required downtime) (chatgpt)

```
# yum install epel-release
# yum install gparted
# gparted
```

<https://www.2daygeek.com/linux-resize-active-primary-root-partition-gparted/> (this is different)

2. By deleting the root lvm ( for lvms ) ( it requires downtime )

To check free space

```
# parted
print free ( it will show free space )
q (exit )
```

# delete the existing root partition

```
# fdisk /dev/sda
d → to delete and save it
```

Create a new partition by adding free space too

```
# fdisk /dev/sda
```

```
N → p → 2 → add free+old size → t (8e) → w
```

Now we can see error. Reboot the machine to fix it

```
# pvresize /dev/sda2 (resizing the newly created disk )
```

```
# lvresize /dev/mapper/centos-root /dev/sda2 (resizing the lv )
```

```
# xfs_growfs /dev/mapper/centos-root (extending the root fs )
```

```
# parted
```

