

# To create two partitions on the disk

You can follow the steps outlined below. Please ensure you have backed up any important data on the disk before proceeding:

Access the Terminal or Command Prompt: Open a terminal or command prompt.

Check Current Partitions: First, check the current partitions on the disk

## **sudo fdisk -l /dev/sda**

This will show you the existing partition table and details about the sda disk.

Partition the Disk: Use the fdisk utility to create partitions on the disk. Run the following command:

## **sudo fdisk /dev/sda**

This will open the fdisk utility.

Create the First Partition:

- a. Type n and press Enter to create a new partition.
- b. Choose the partition type. Type p for a primary partition and press Enter.
- c. The utility will ask you for the partition number. For the first partition, type 1 and press Enter.
- d. It will prompt you for the first sector. Press Enter to accept the default value (usually the next available sector after the existing partition).
- e. For the last sector, type +20G and press Enter. This will create a partition of 20 GB.(You can create as per your requirement)

Create the Second Partition:

- a. Type n and press Enter to create another new partition.
- b. Choose the partition type. Type p for a primary partition and press Enter.
- c. The utility will ask you for the partition number. For the second partition, type 2 and press Enter.

d. It will prompt you for the first sector. Press Enter to accept the default value (usually the next available sector after the first partition).

e. For the last sector, type +20G and press Enter. This will create another partition of 20 GB.

Write the Changes: After creating both partitions, type w and press Enter to write the changes to the disk. This will save the partition table.

Format the Partitions: Format the newly created partitions with the desired file system. For example, to format the first partition as ext4:

```
sudo mkfs.ext4 /dev/sda1
```

Format the second partition similarly:

```
sudo mkfs.ext4 /dev/sda2
```

Mount the Partitions: Create mount points for the partitions and mount them to your desired locations. For example, to mount the first partition as the root directory (/):

```
sudo mount /dev/sda1 /
```

You can choose any other desired mount points for the second partition.

Update /etc/fstab: To make the partitions mount automatically at boot, update the /etc/fstab file with the appropriate entries. Use the blkid command to get the UUID of each partition:

```
sudo blkid /dev/sda1
```

```
sudo blkid /dev/sda2
```

Then, edit /etc/fstab using a text editor (e.g., sudo nano /etc/fstab) and add the following lines:

```
UUID=<UUID_of_sda1> /      ext4 defaults    0    1  
UUID=<UUID_of_sda2> /path/to/mount_point ext4 defaults    0    2
```

Replace <UUID\_of\_sda1> and <UUID\_of\_sda2> with the actual UUIDs you obtained from the blkid command. Also, replace /path/to/mount\_point with the desired mount point for the second partition. ( NOTE: You can also use /dev/sda <mount\_path> type )

Reboot: After making all the changes, reboot the Vagrant box for the changes to take effect.

