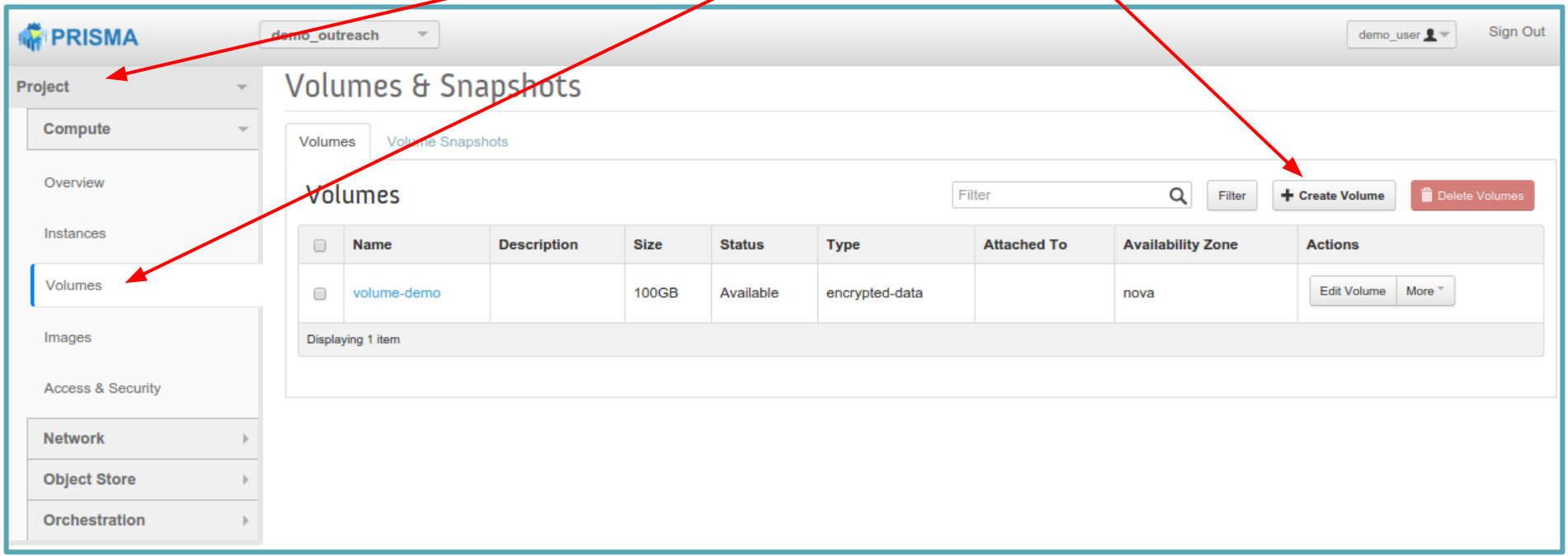
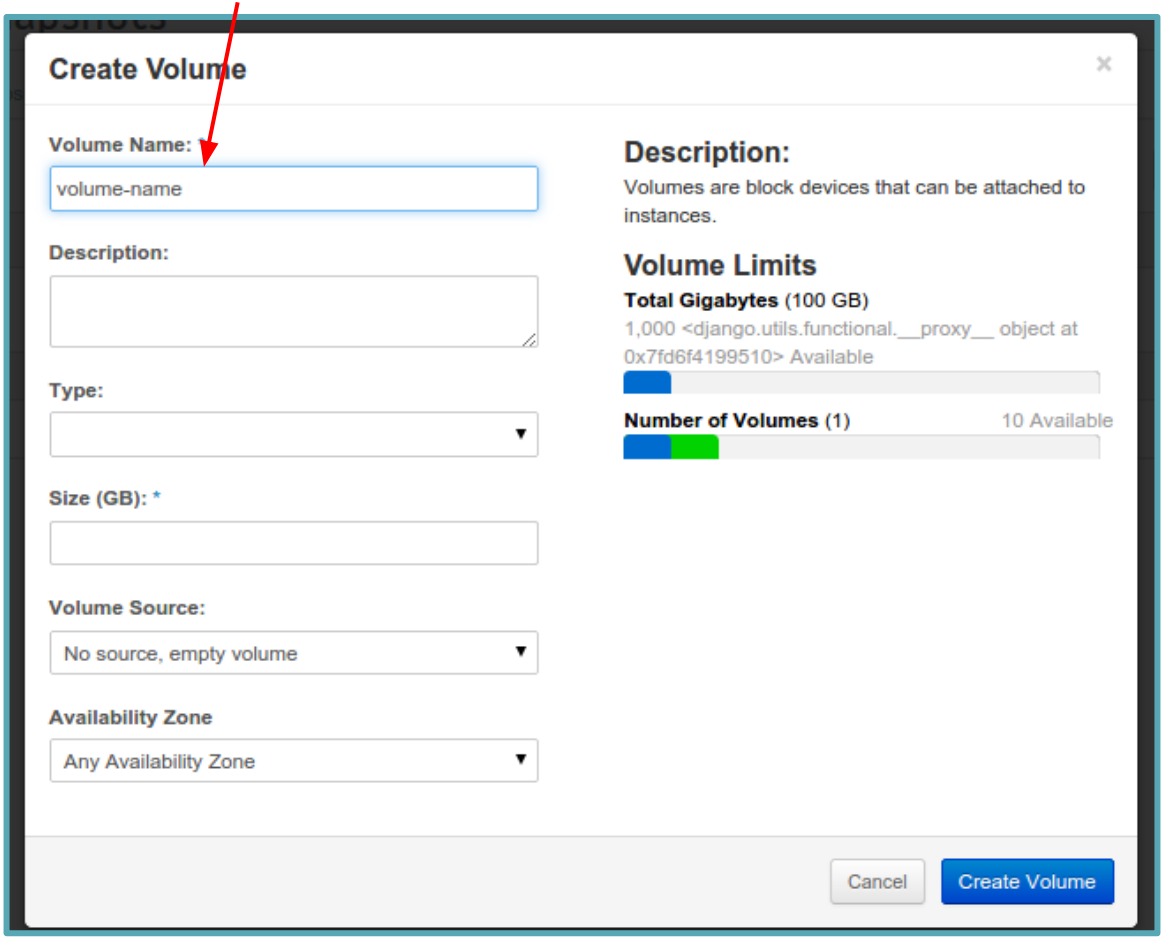
How to create and attach a volume

1. Log into the web dashboard (https://prisma-cloud.ba.infn.it/) with your username and password

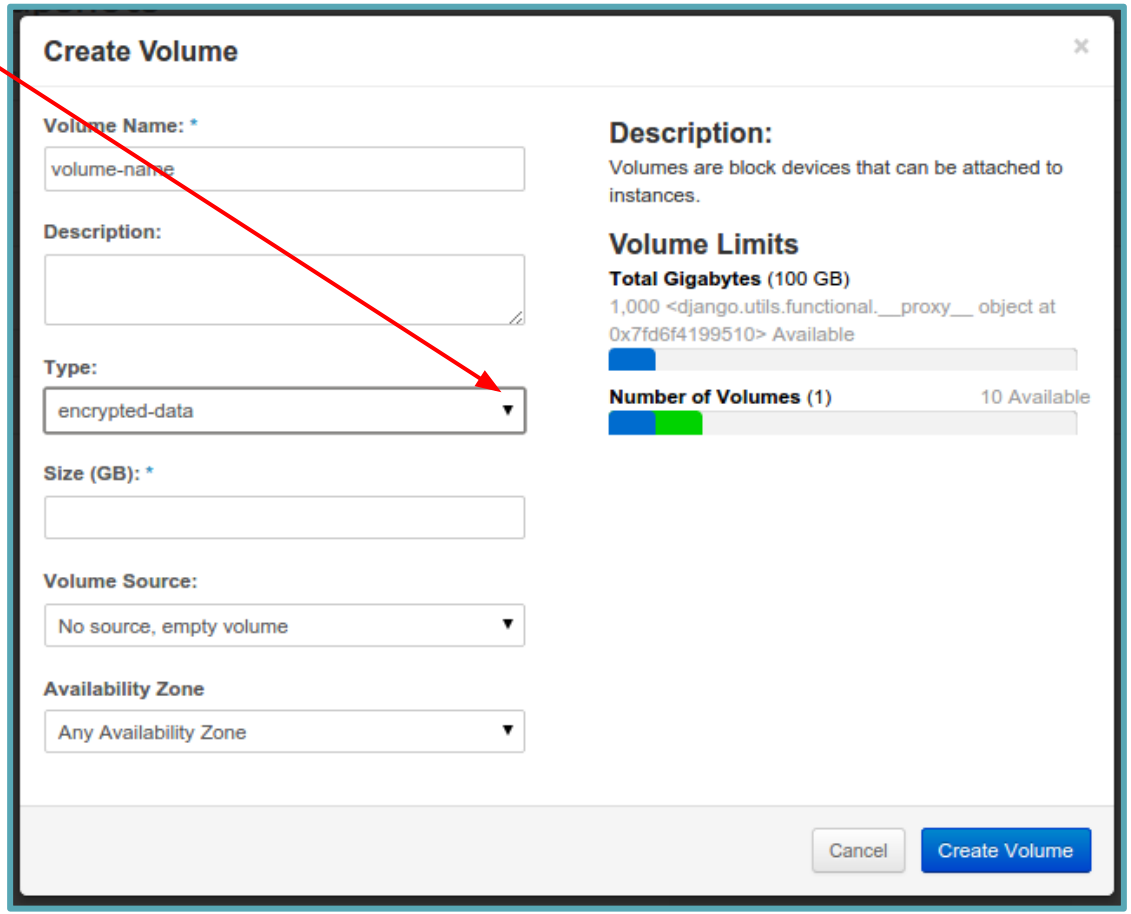
2. In the left panel, click on Project → Volumes → Create Volume



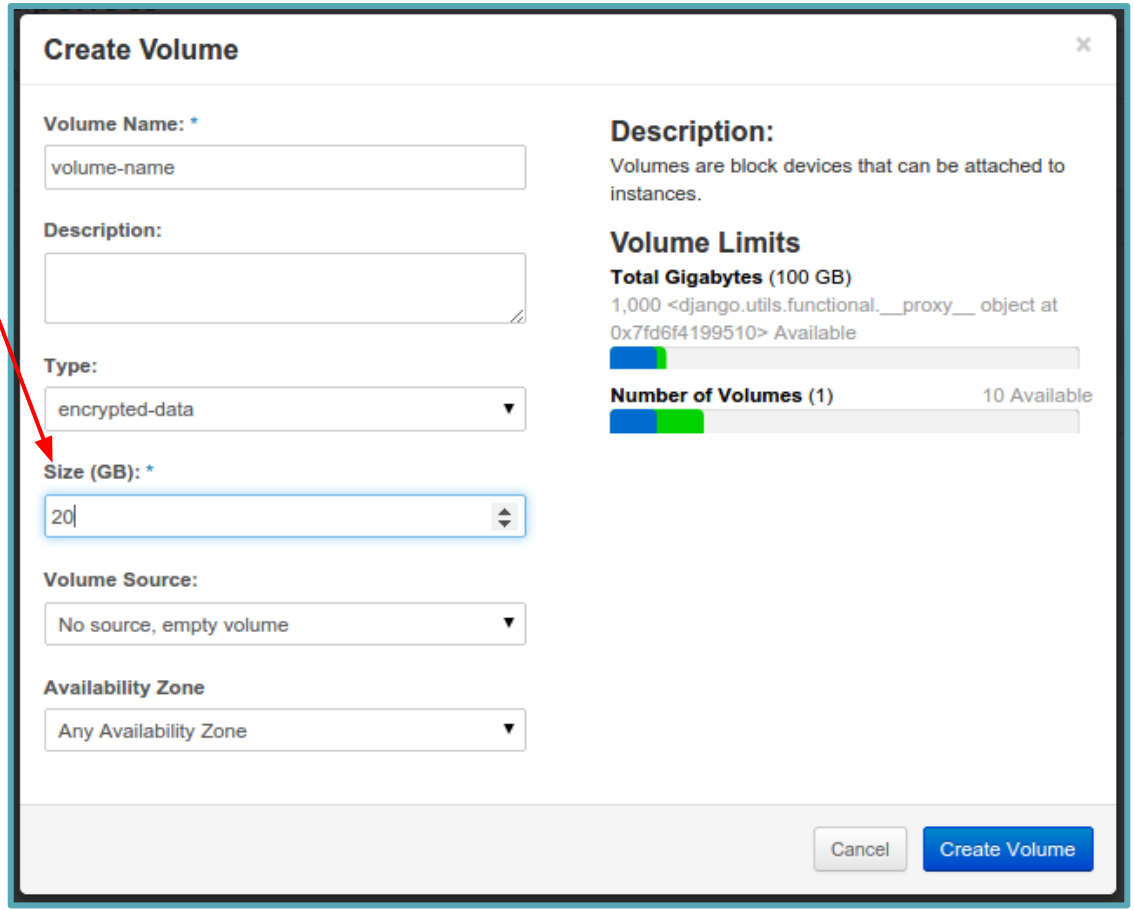
3. In the new window, type a name for the volume



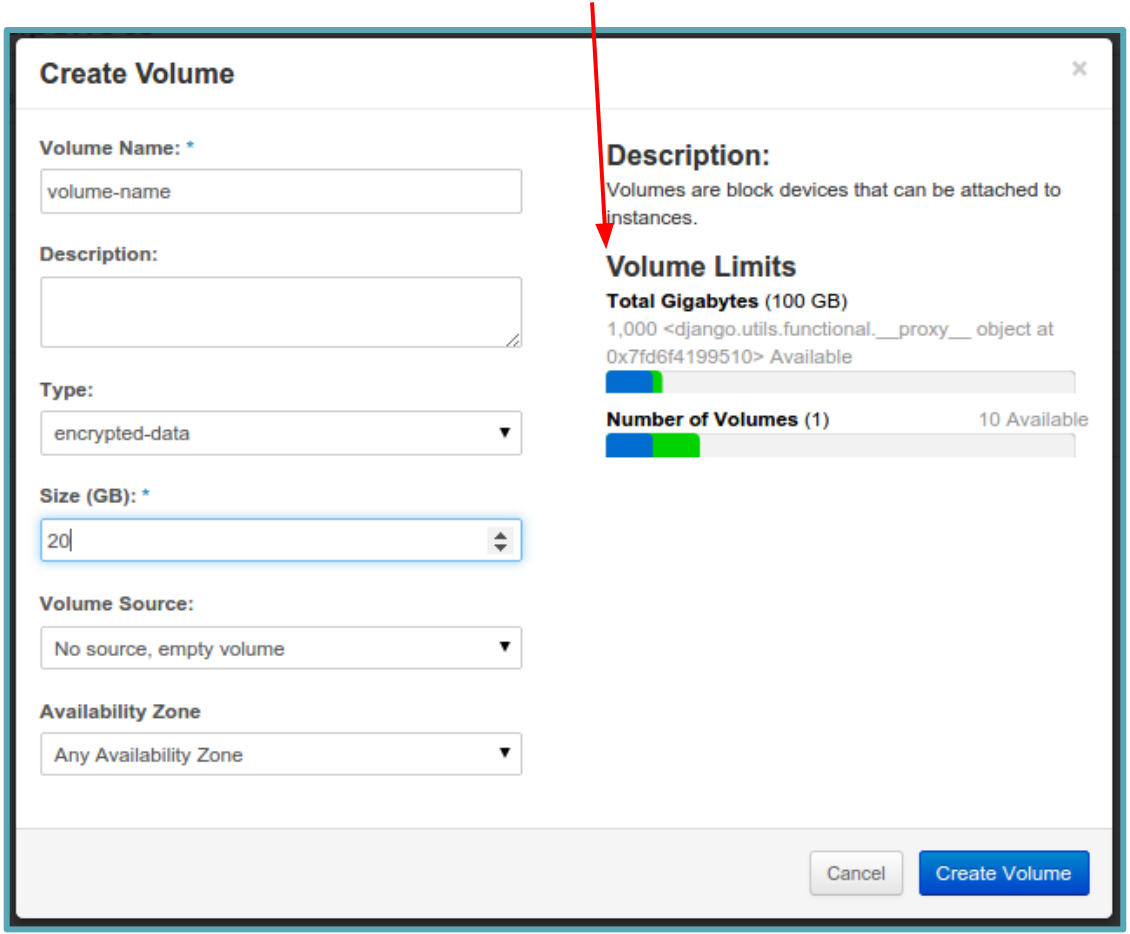
4. Select a type (select “encrypted-data” if you want the volume to be encrypted)



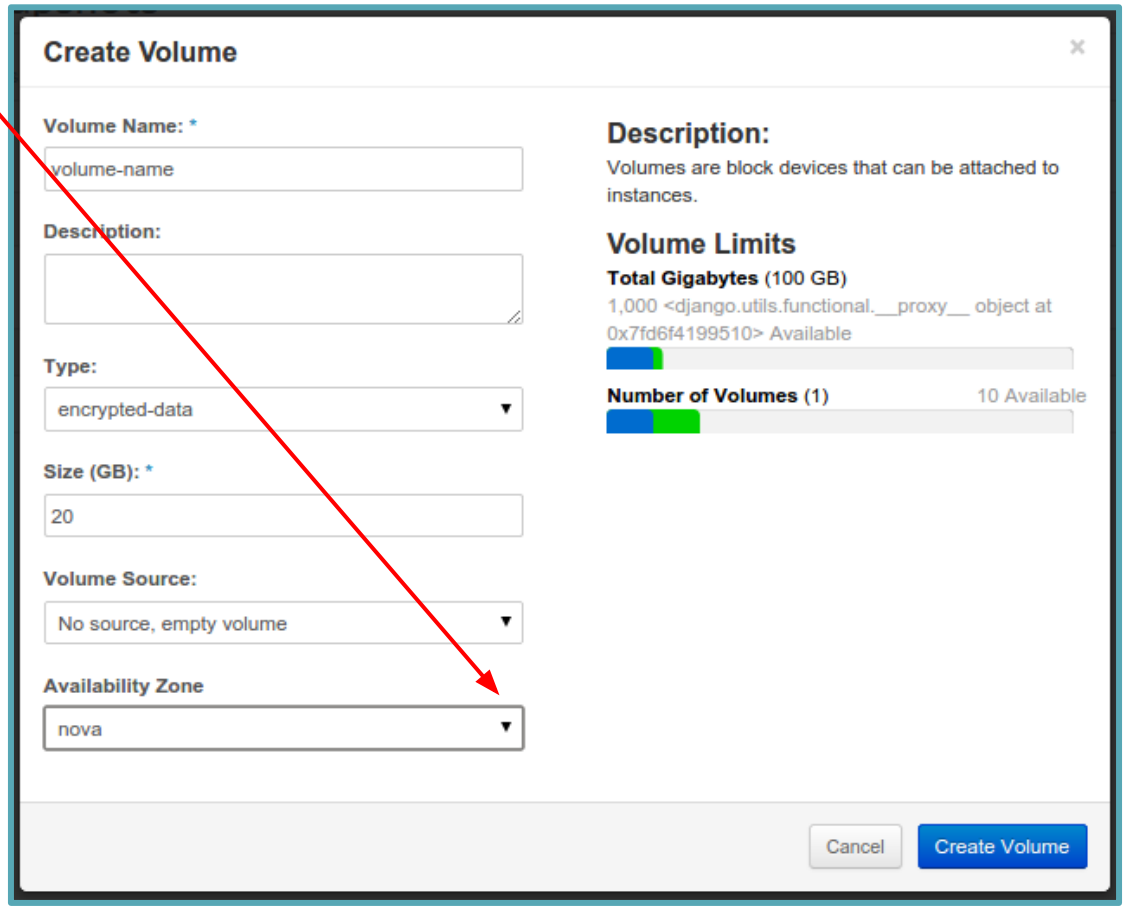
5. Insert the size you need for your volume



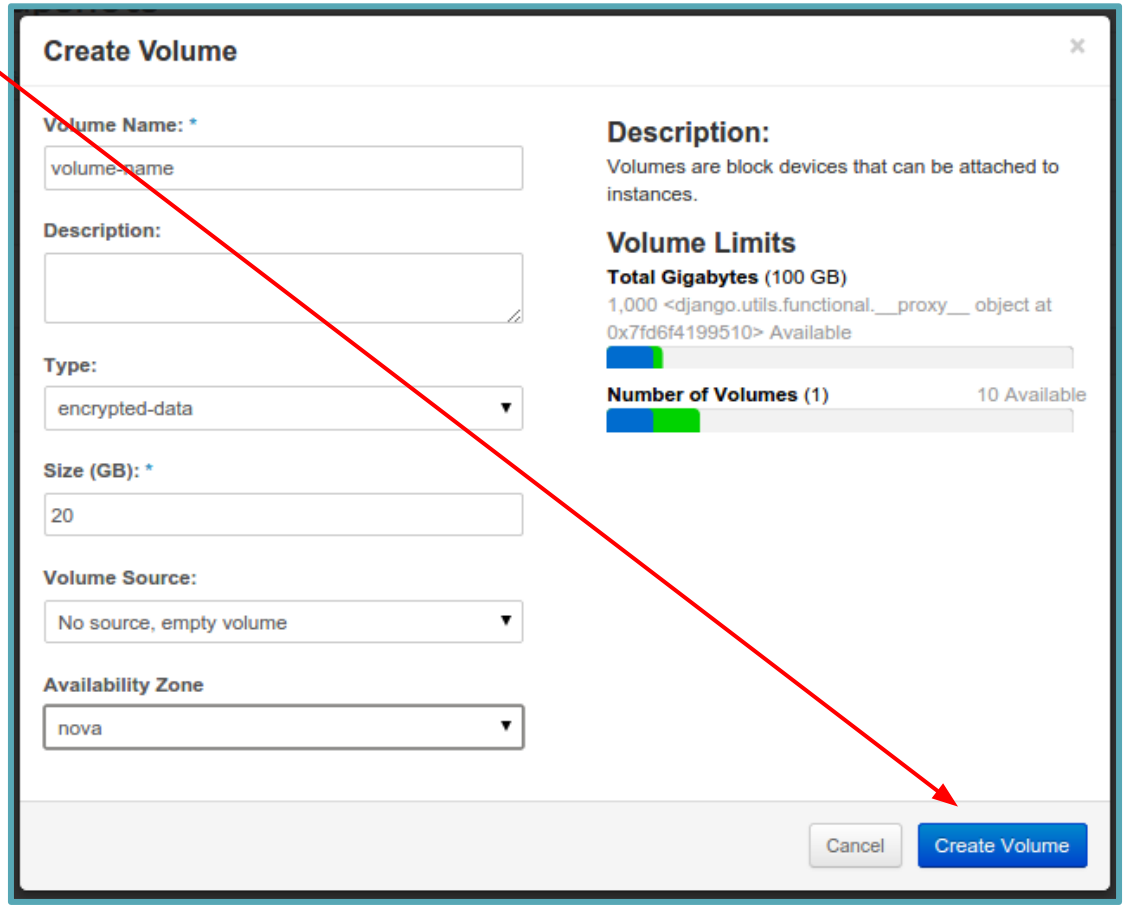
NB: notice the size must be within available resources



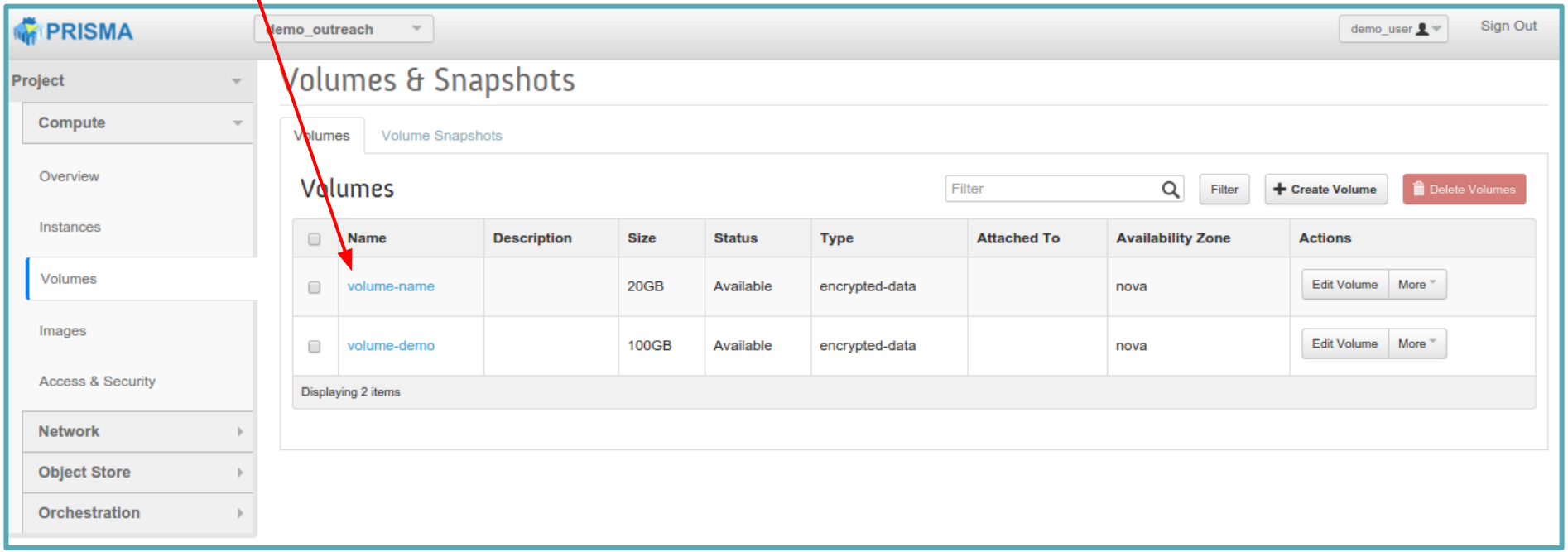
6. Select “Availability Zone” (recommended choice: “nova”)



7. Click on Create Volume

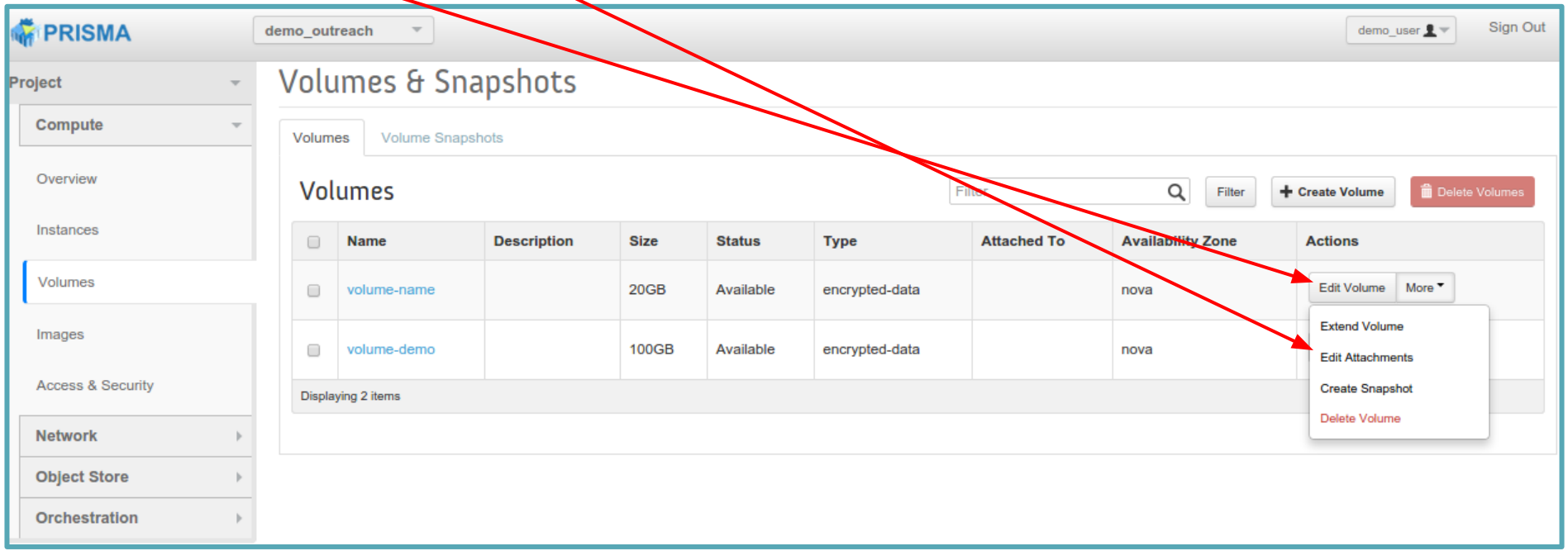


8. Check that the new volume is in the list in panel “Volumes”

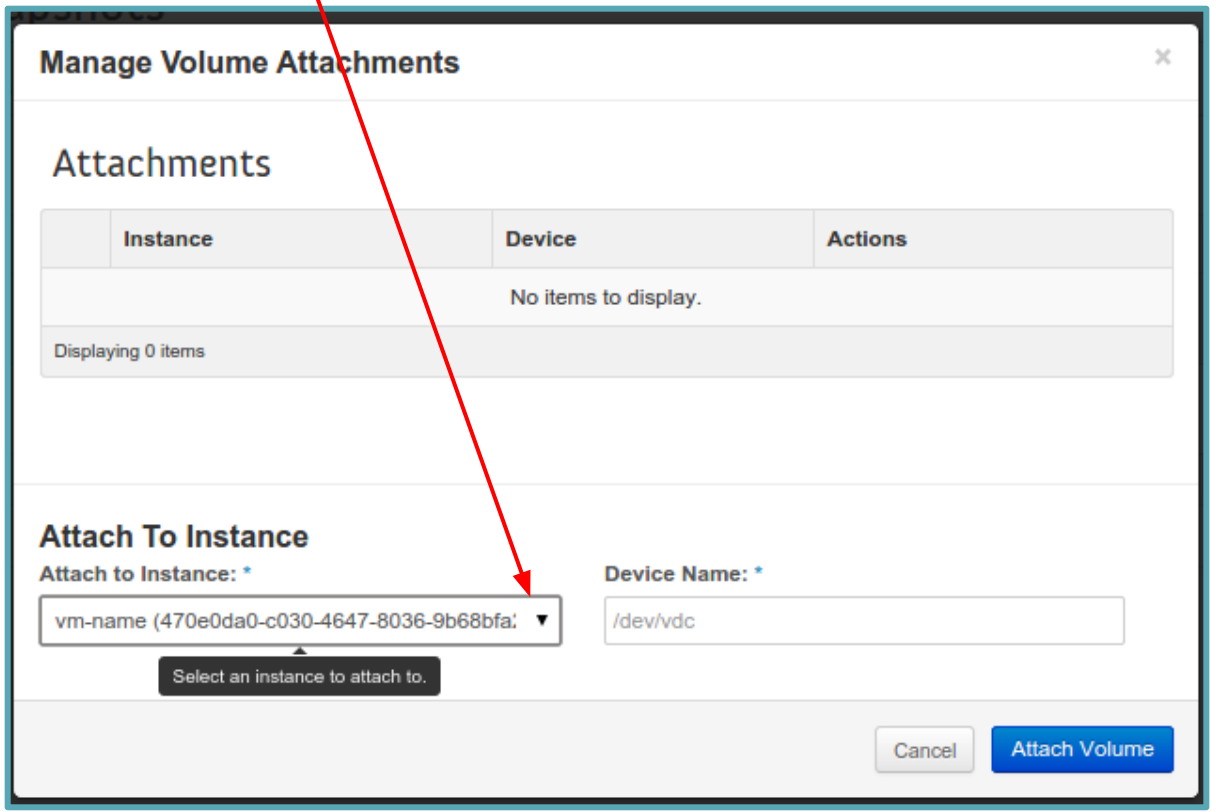


9. To attach it to a vm in the same tenant, click on

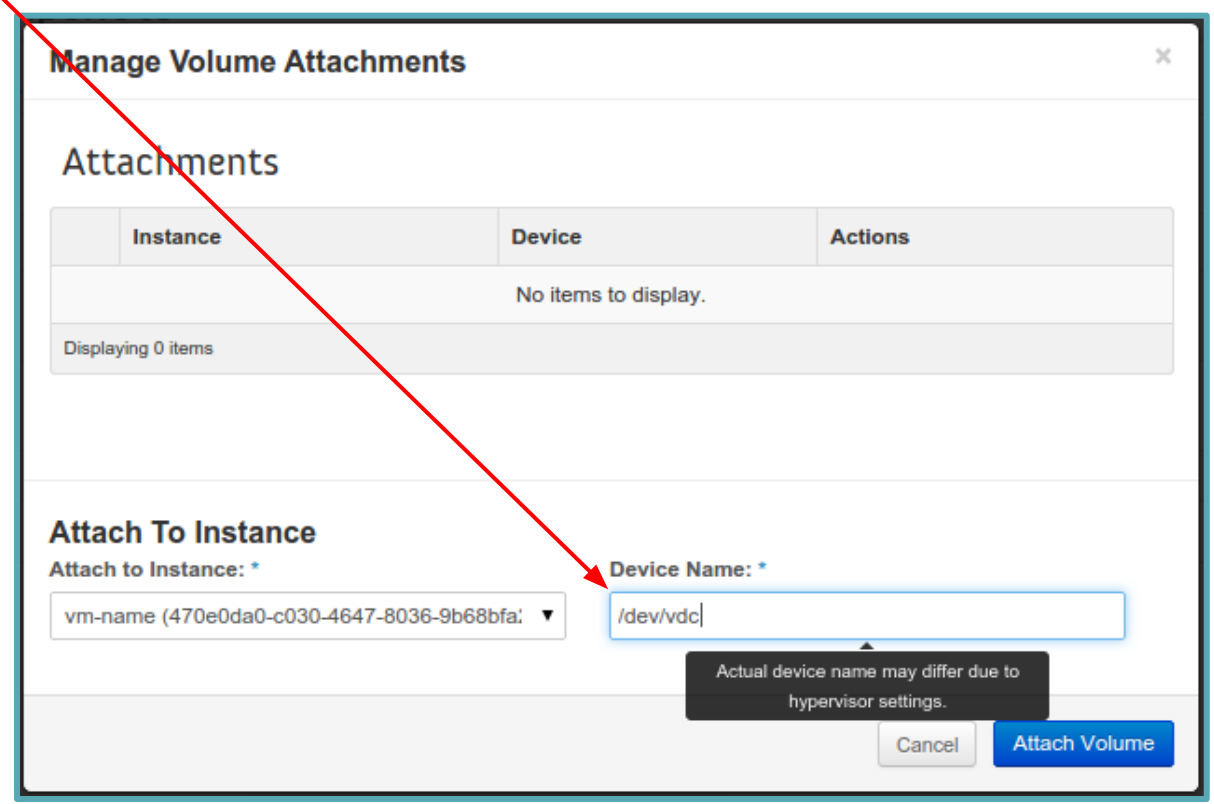
Edit Volume → Edit Attachments



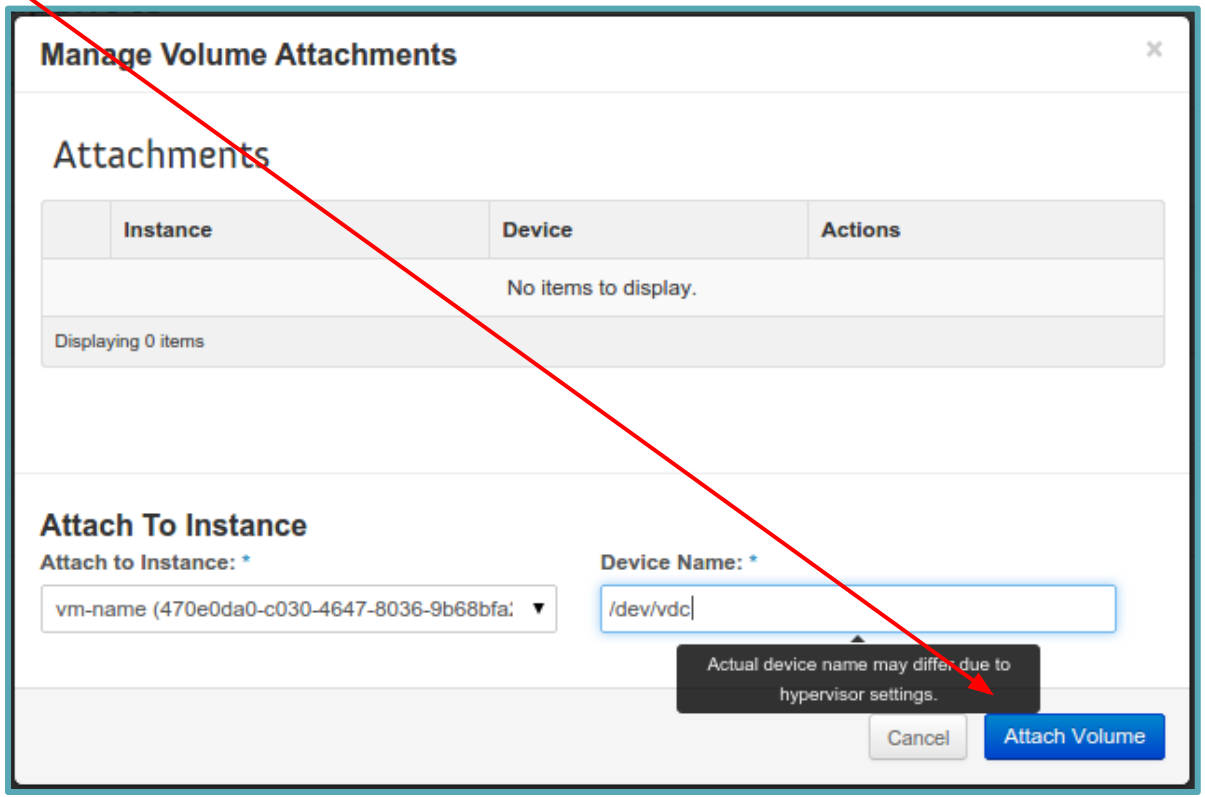
10. In the new window, select the vm to which you want to attach the volume



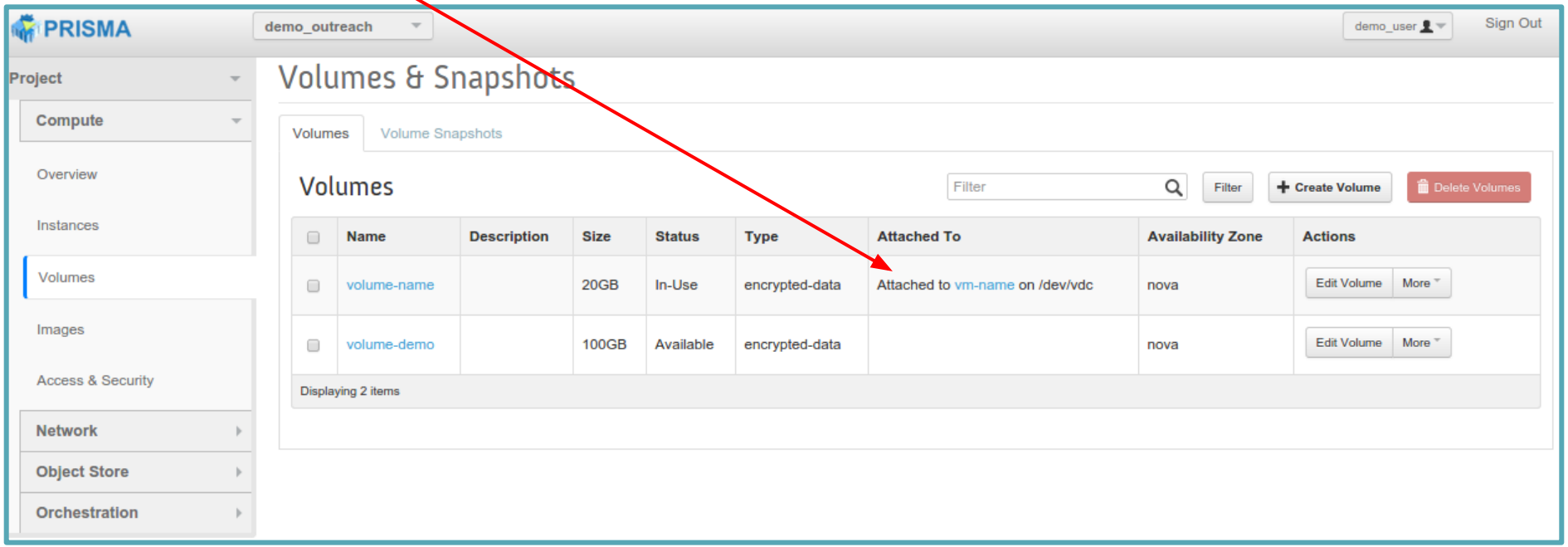
11. Type a name for the device (notice that actual device name may differ)



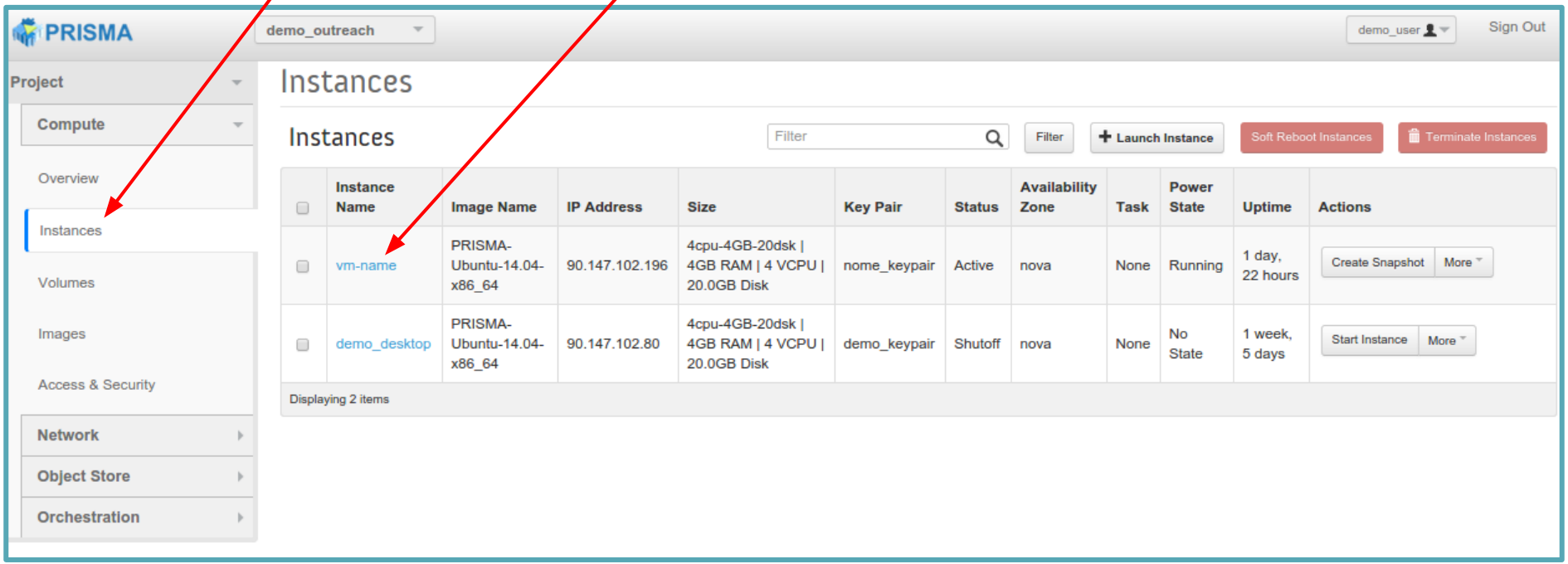
12. Click on Attach Volume



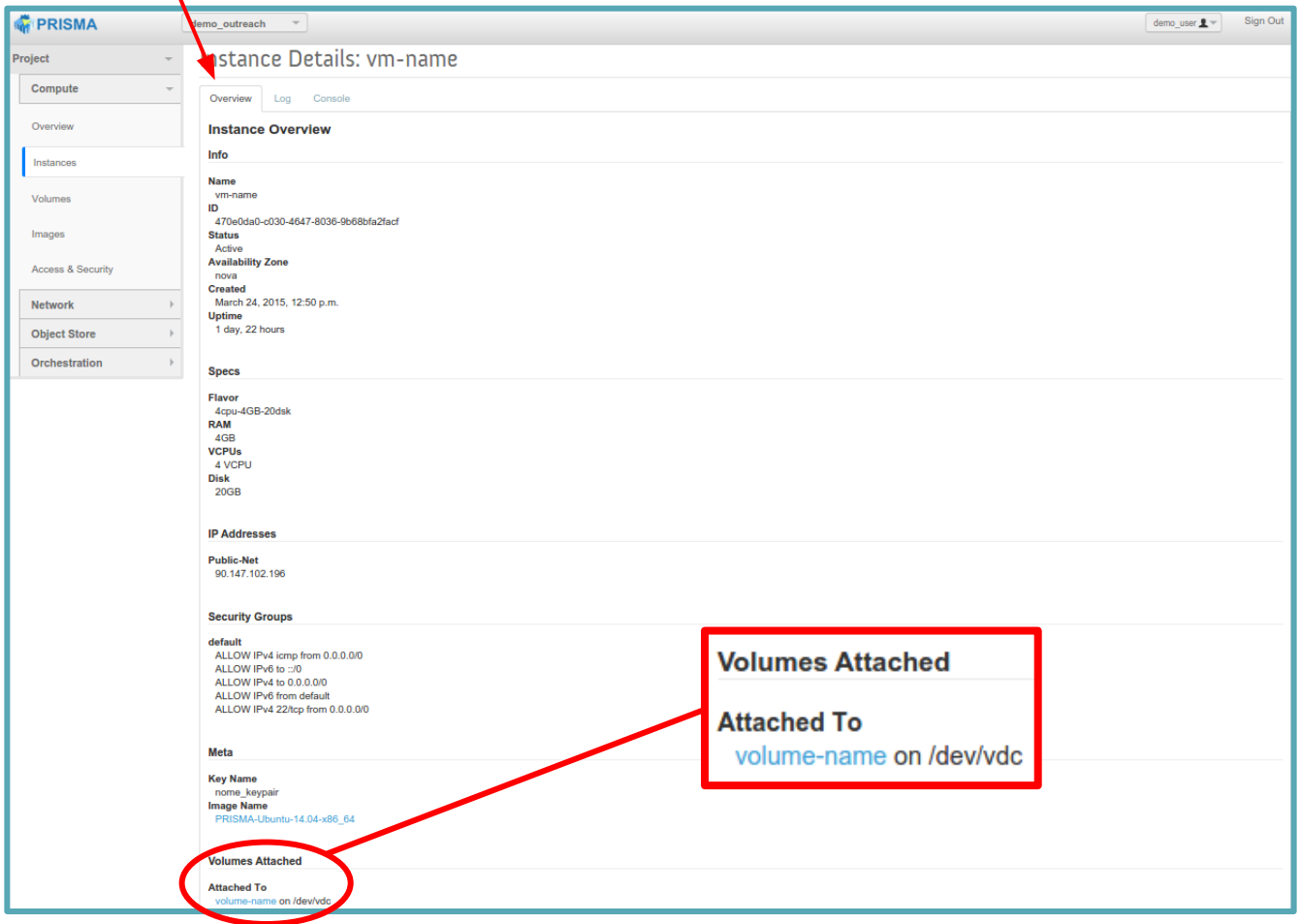
13. Check that the volume is now attached to the chosen vm



14. Click on Instances and on the vm to which the volume is attached



In the panel “Overview”, check that the volume is correctly attached

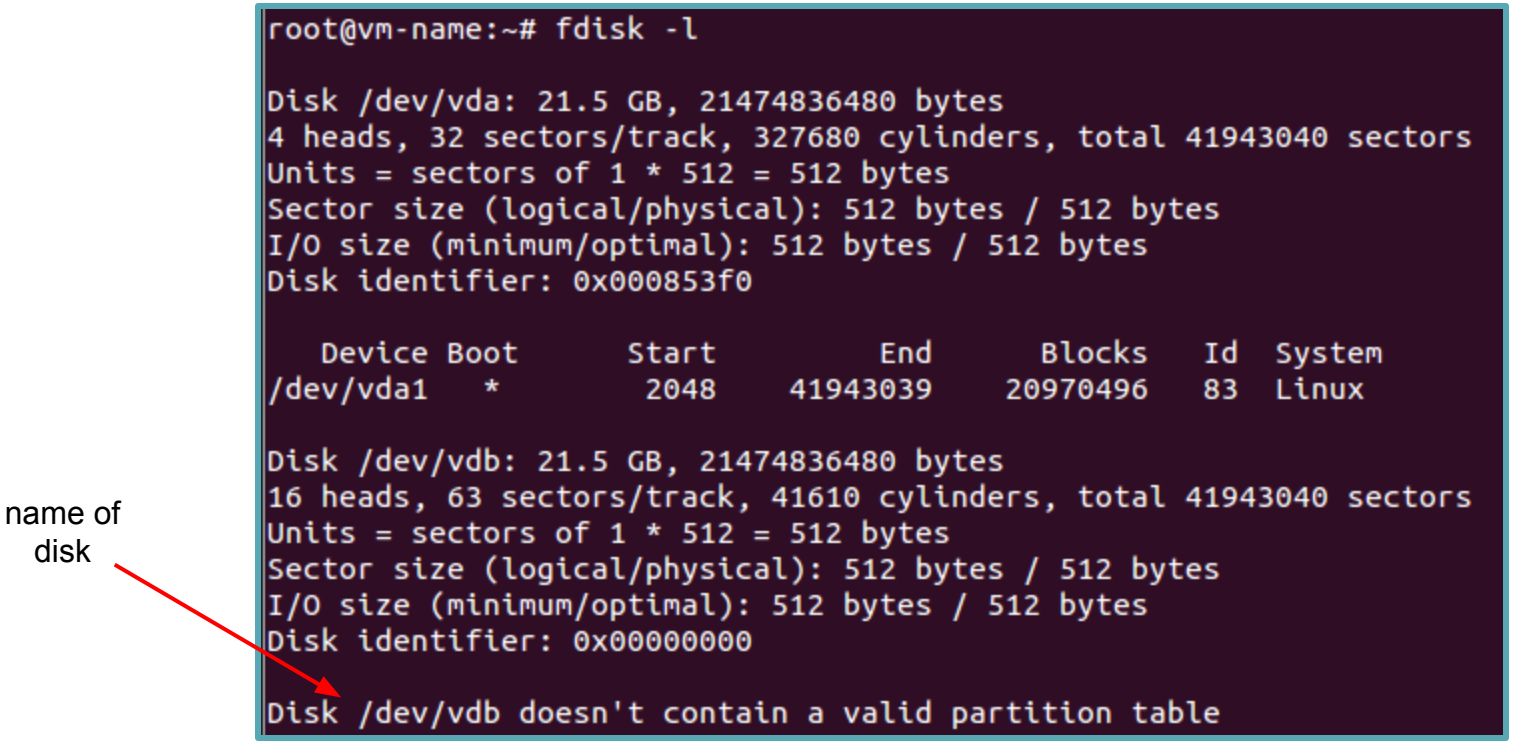


How to make a partition, format and mount a device

1. As root, to see the list of devices, type

   # `fdisk -l`

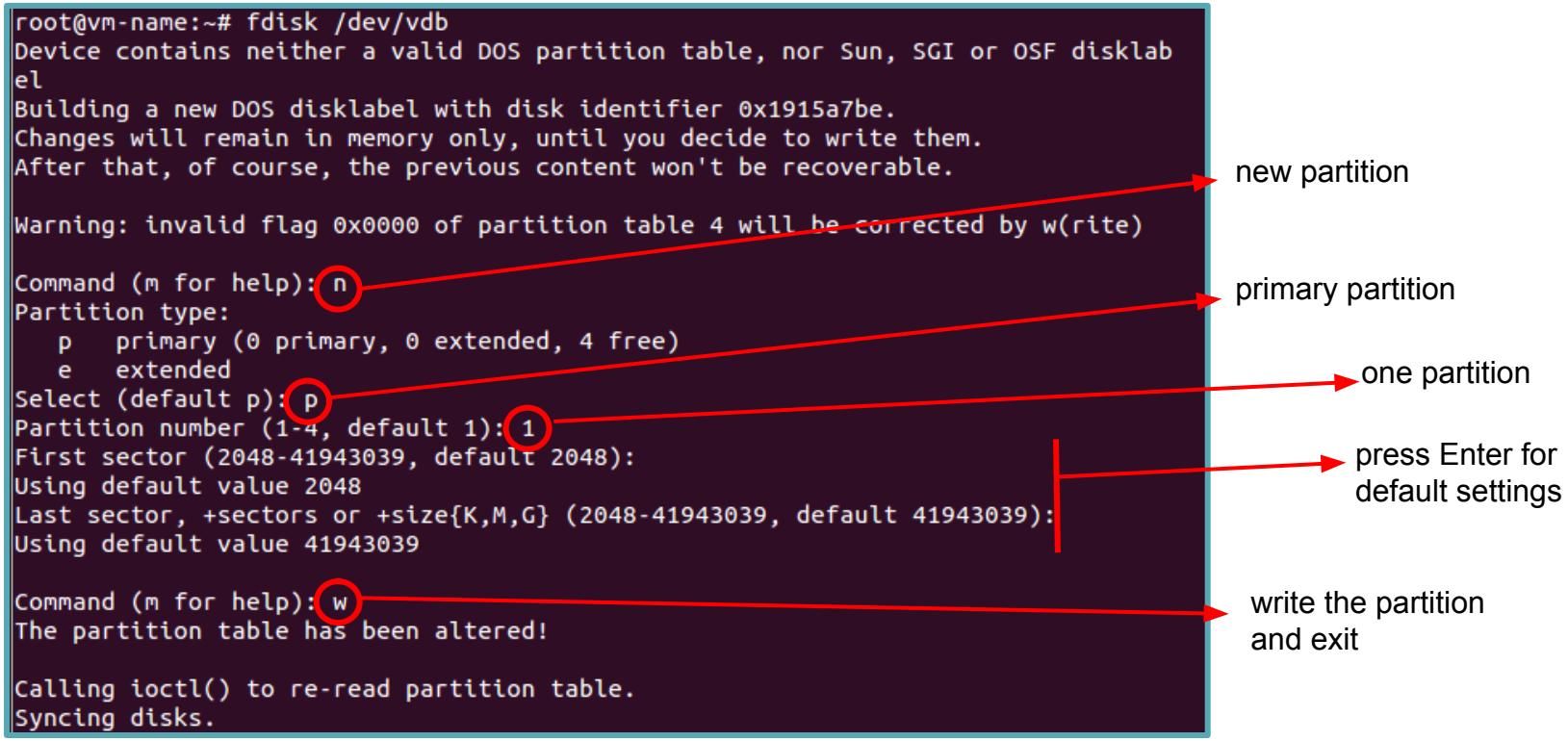
   The result is similar to the following:



2. To make a partition, type (fdisk can make partitions up to 2 TB large)

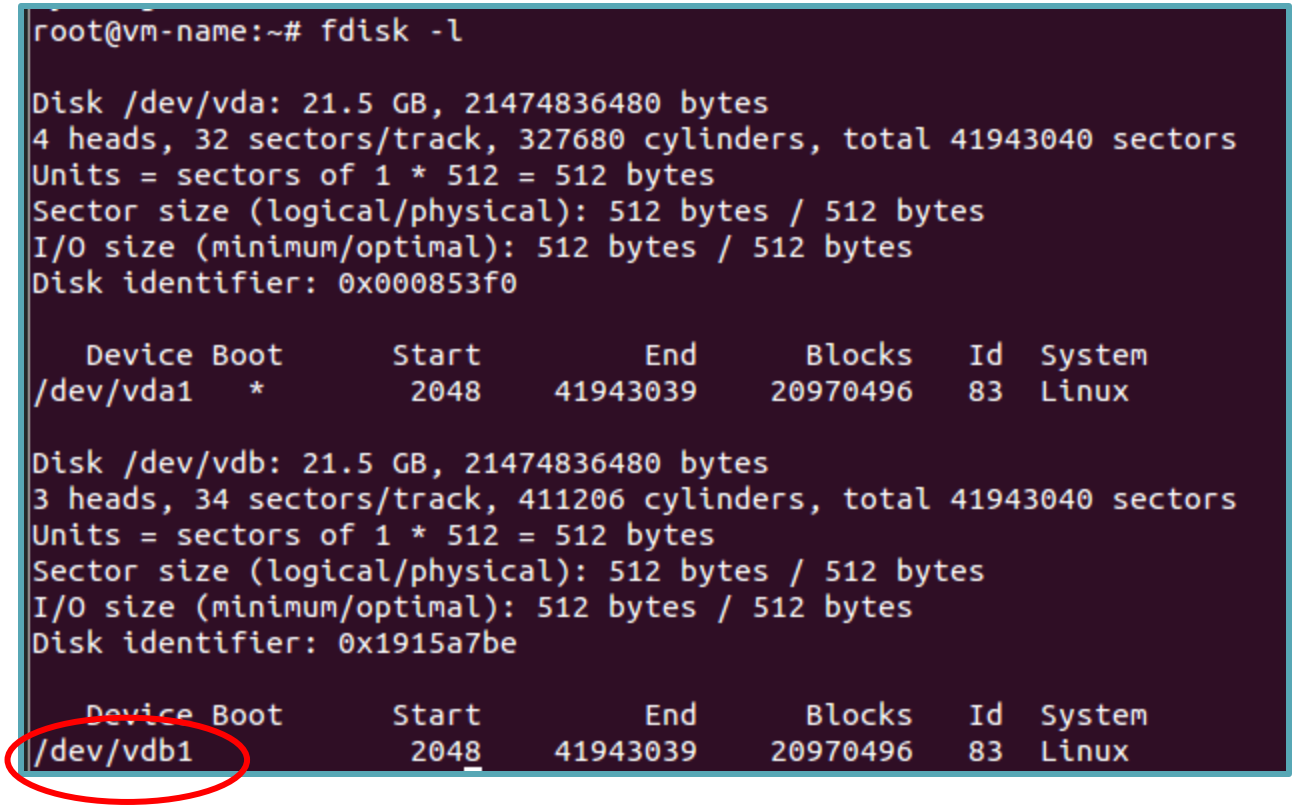
   `# fdisk /dev/vdb`

   and answer the questions as shown here:



3. `# fdisk -l`

now gives:



4. To format the device with an ext4 filesystem, type

```
# mkfs.ext4 /dev/vdb1
```

name of device

5. To mount the device, create a directory where the partition will be mounted:

```
# mkdir -p /disk/vdb1
```

6. and mount the device on that directory:

```
# mount /dev/vdb1 /disk/vdb1
```

7. Check your device has been mounted by looking at all the mounted partitions:

```
# mount
```