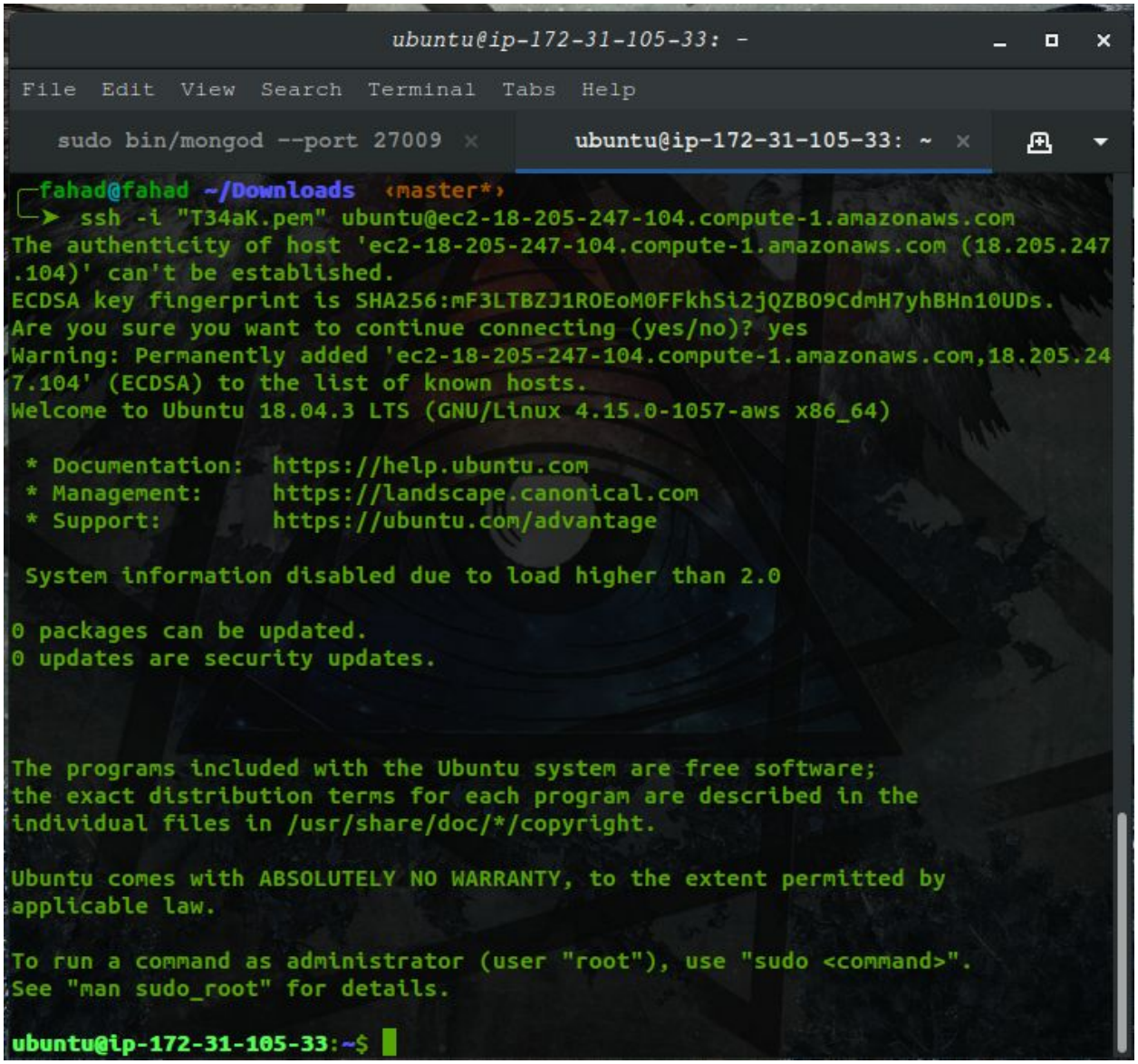
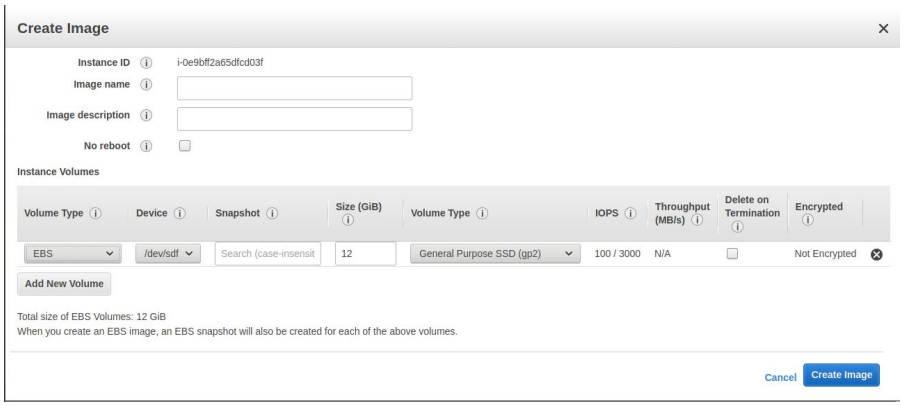
AWS-EC2

Ques 1:-Create an EC2 instance (Ubunutu 18.04, T3 nano).(instance A)
Ans1:-



Ques2:-Create AMI of the above instance and launch it. (instance B)
Ans2:-First we have to create the EC2 instance Then by clicking on action and selecting image then create Image option



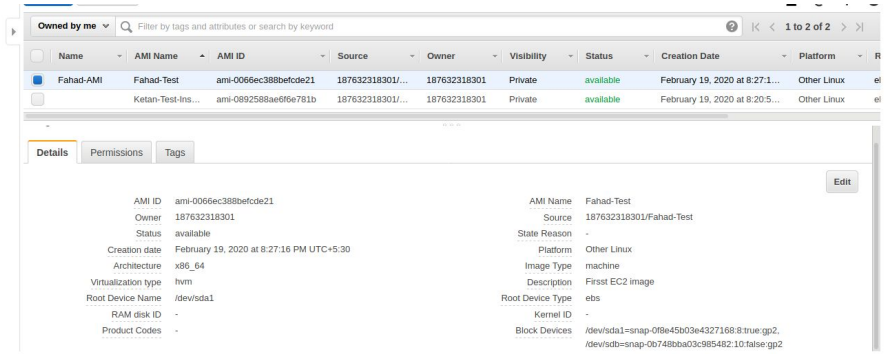
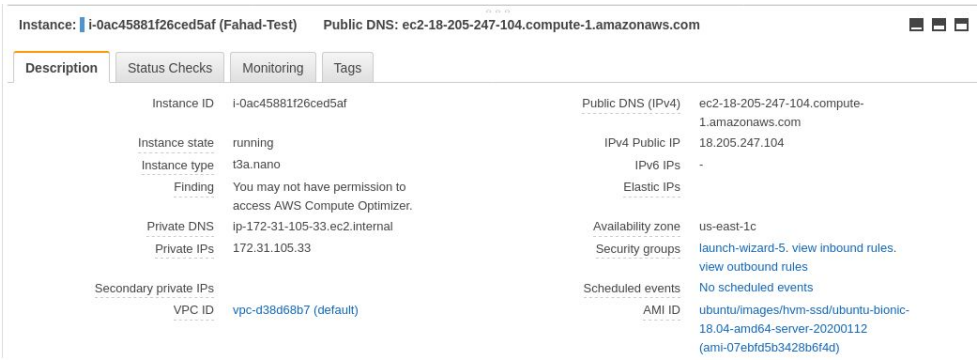
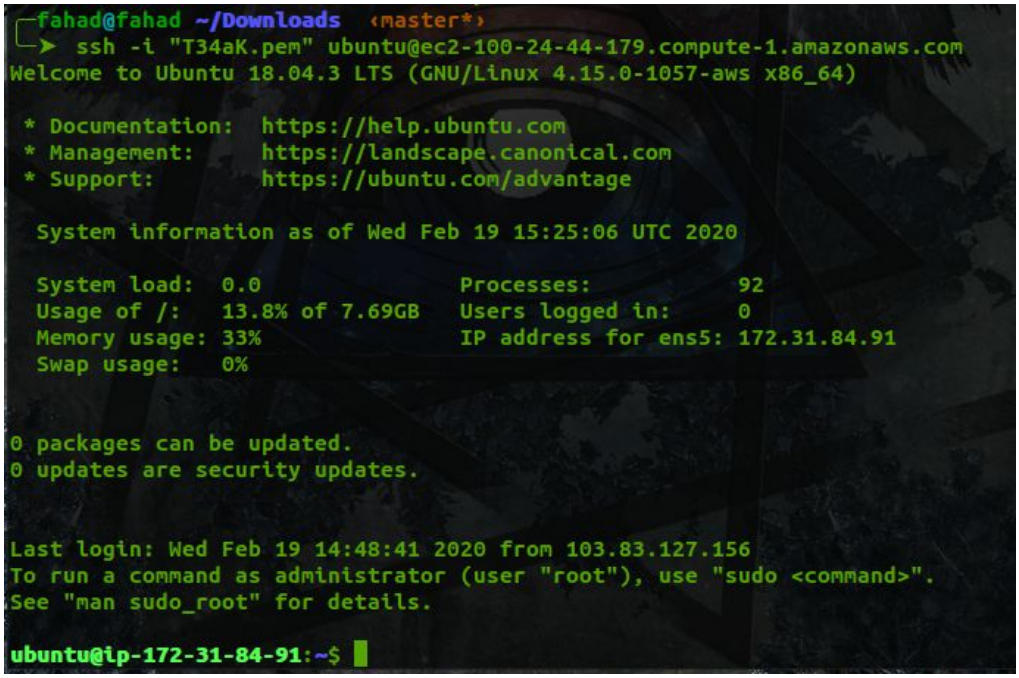


Image will be Created

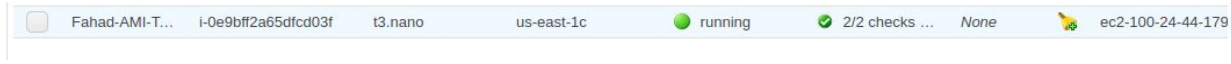


After launching through ssh



Ques 3:-Attach EBS (8 GB) on that running instance.

Ans 3:-

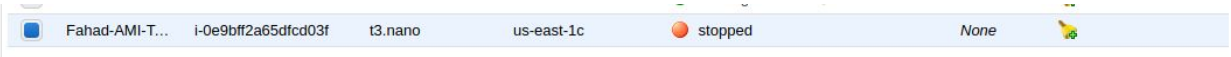


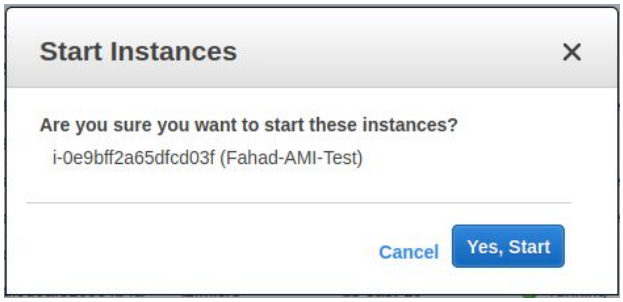
For attaching the EBS we first have to create the volume then by clicking on actions and clicking on attach volume it will be attached

Ques 4:-Stop, Start, Restart that EBS (EBS must be auto-attached).

Ans 4:-

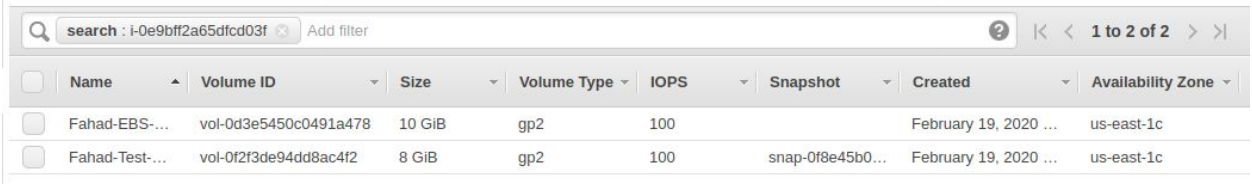
STOP



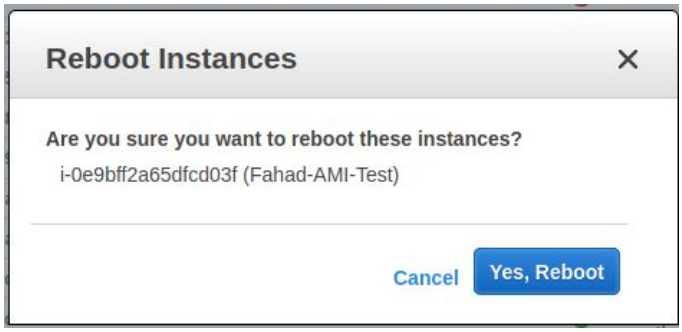


ON-START

ON SEARCHING INSTANCE ID IT IS STILL ATTACHED IN THE EC2



ON-RESTARTING



The Instance is still running

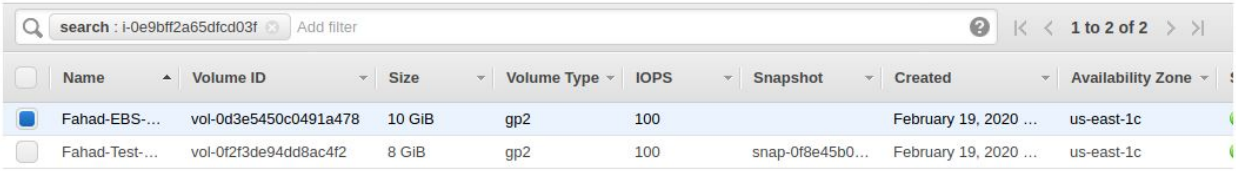
STILL VOLUMES ARE ATTACHED

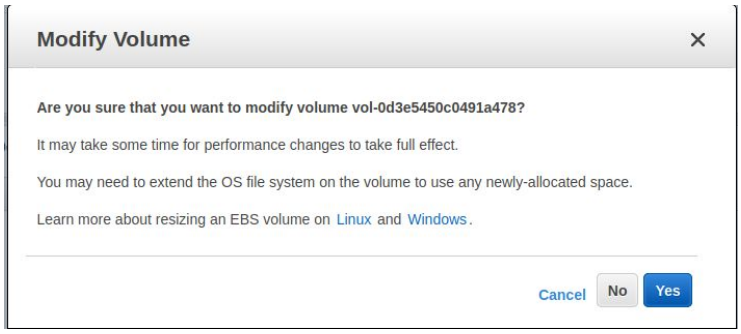
Ques 5:-Make some mistake in fstab file, stop and start the instance, then troubleshoot it.

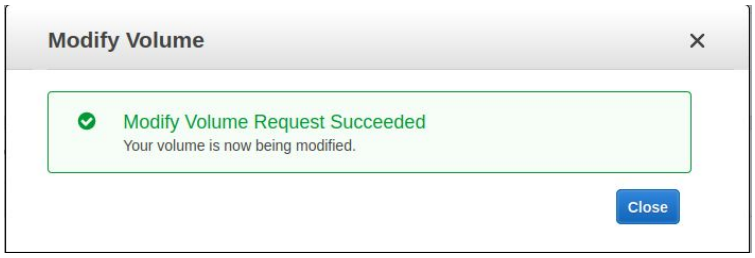
Ans 5:-

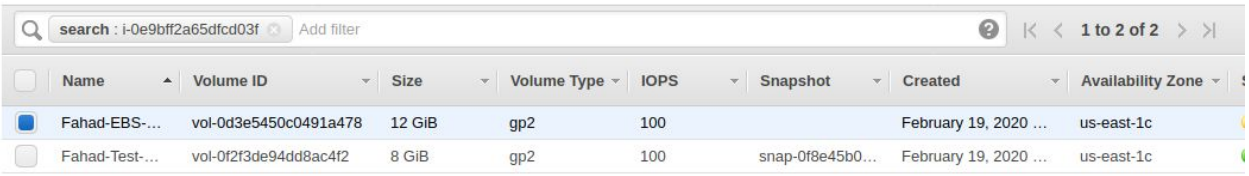
Ques 6:-Resize the EBS from 8 to 10GB

Ans 6:-



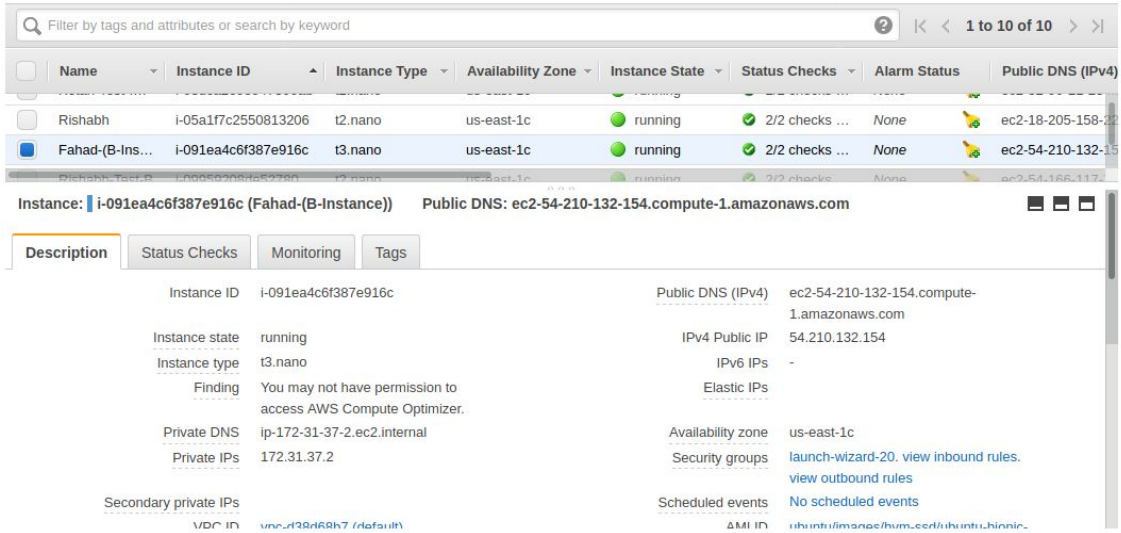


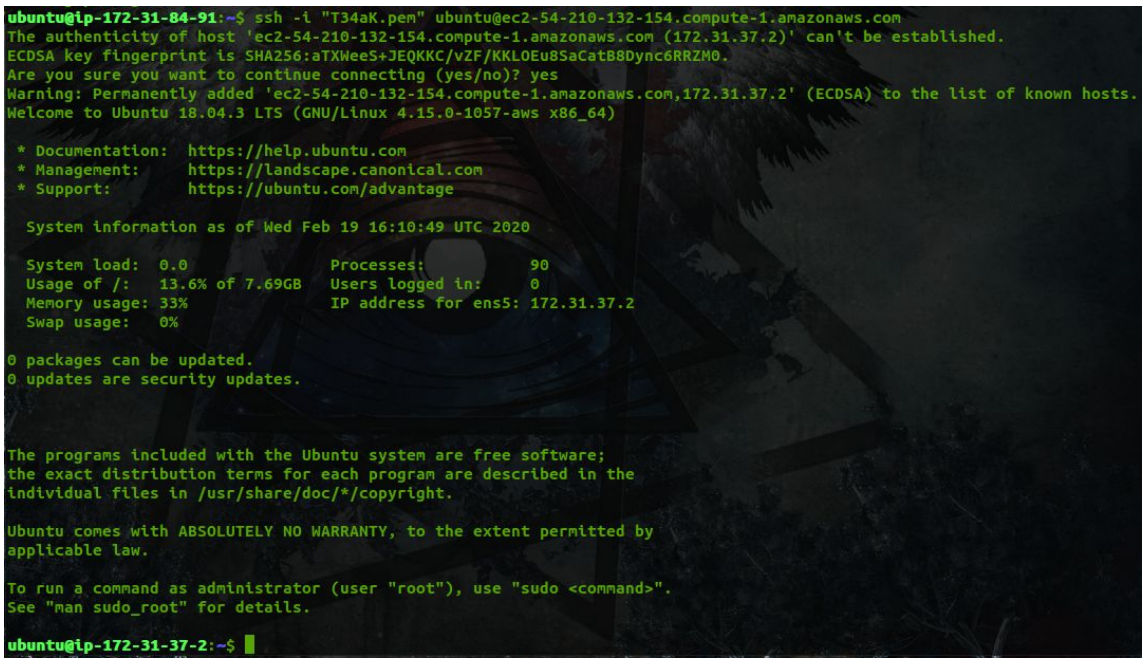


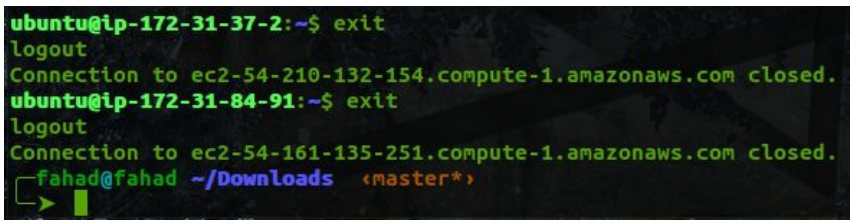


Ques 7:-SSH from one instance A to instance B.

Ans 7:-







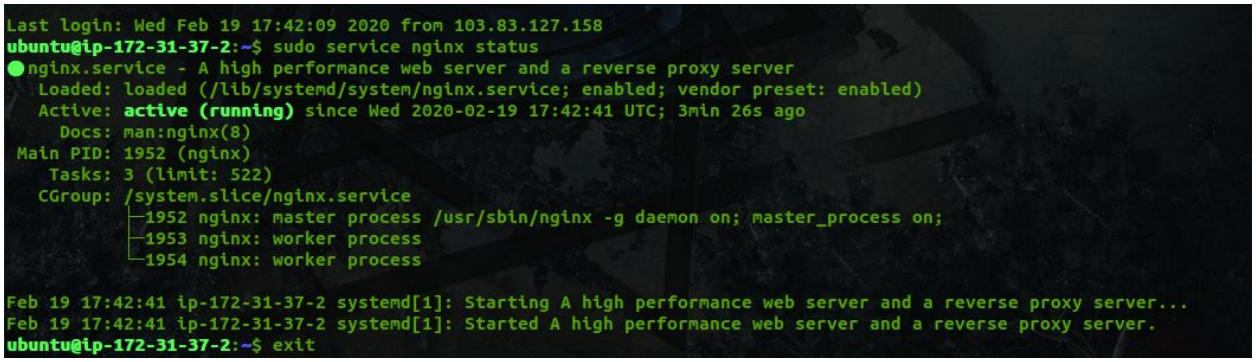
Ques 8:- Copy the EBS in different region(oregon).

Ans 8:- First we have to click on the action button then we have to click on copy to copy this to other location by choosing the oher remote location

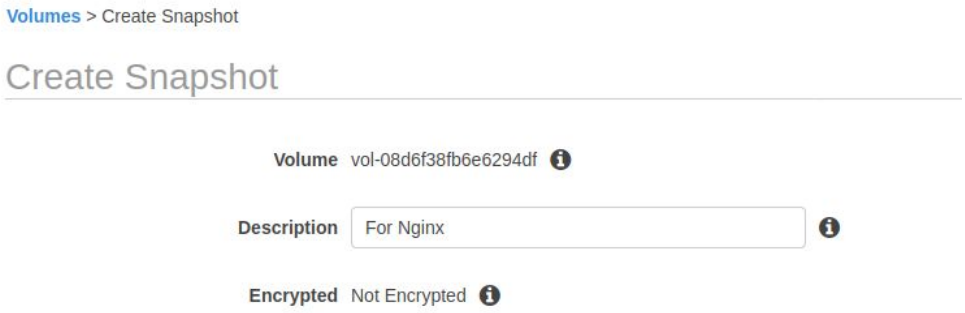
Ques 9:-Detach the root EBS, create its snapshot, than create the AMI and run it as instance such that nginx should be preinstalled at the boot time of instance.

Ans 9:-

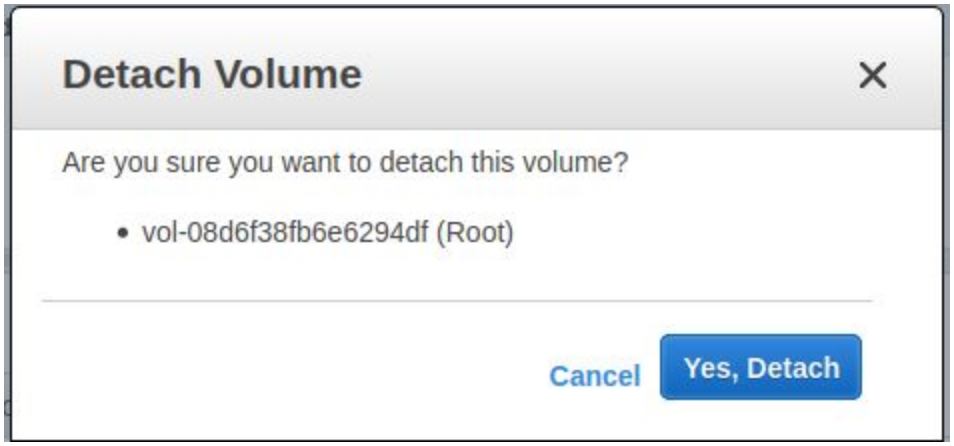
First we have to go in the one instance and install the nginx



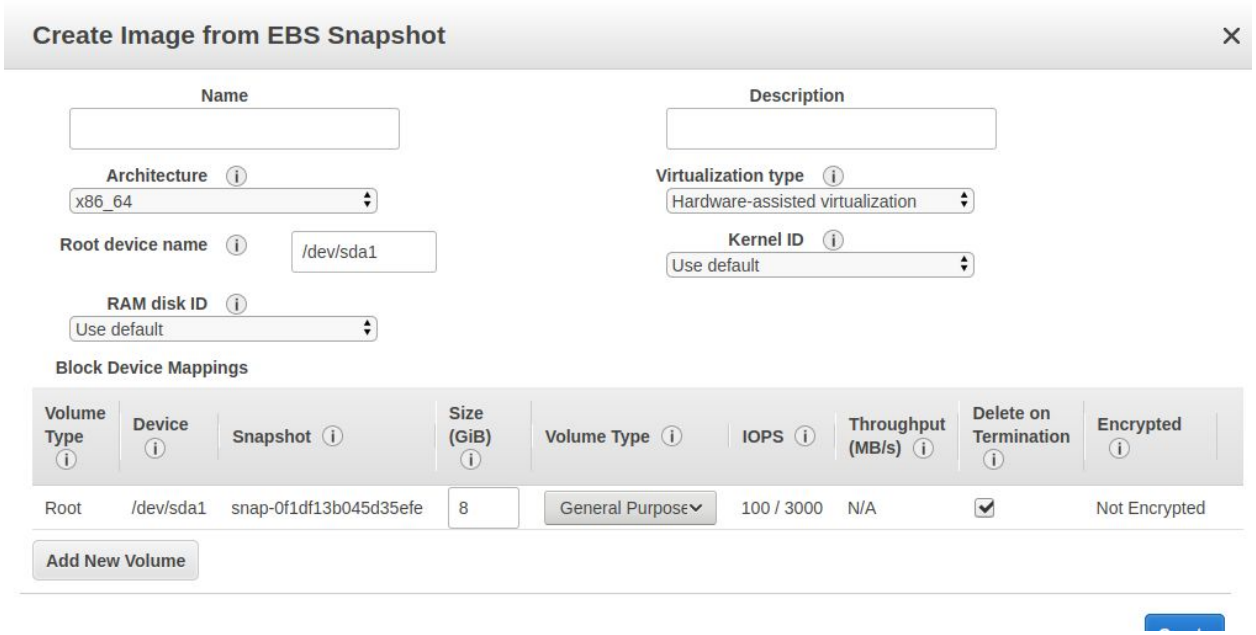
Then we have to create the snapshot of the volume



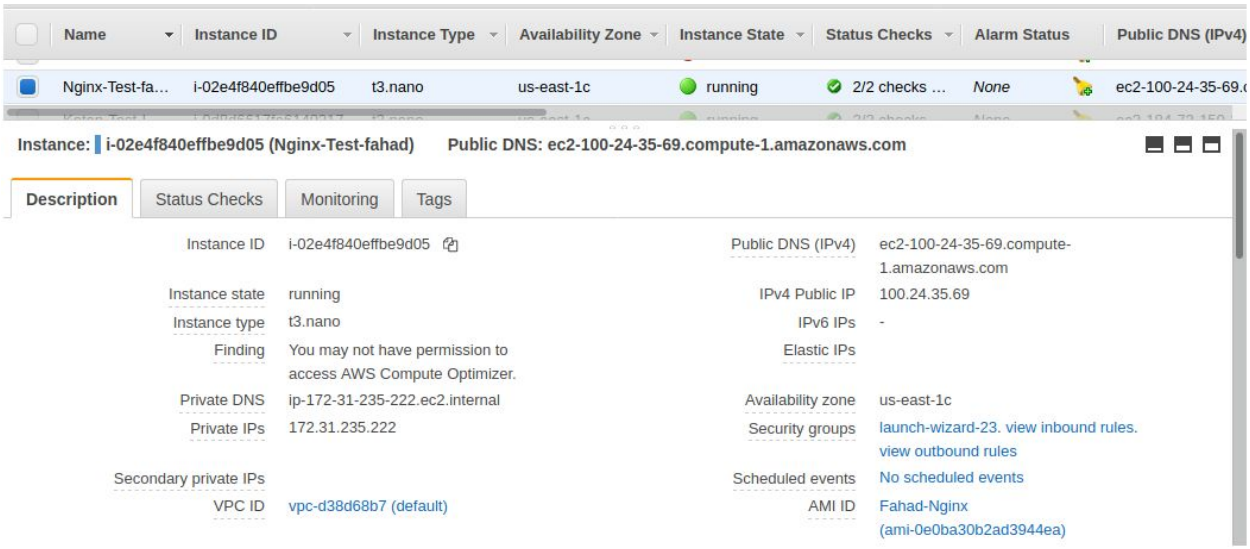
Then we have to Detach the volume from the console



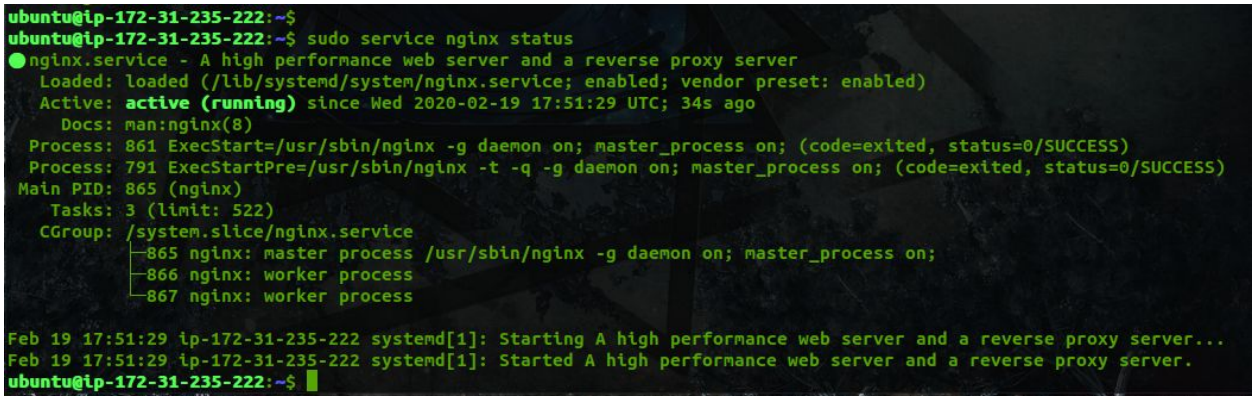
Then we have to create the Image from that Snapshot



After creating the image we have to lauch the instance

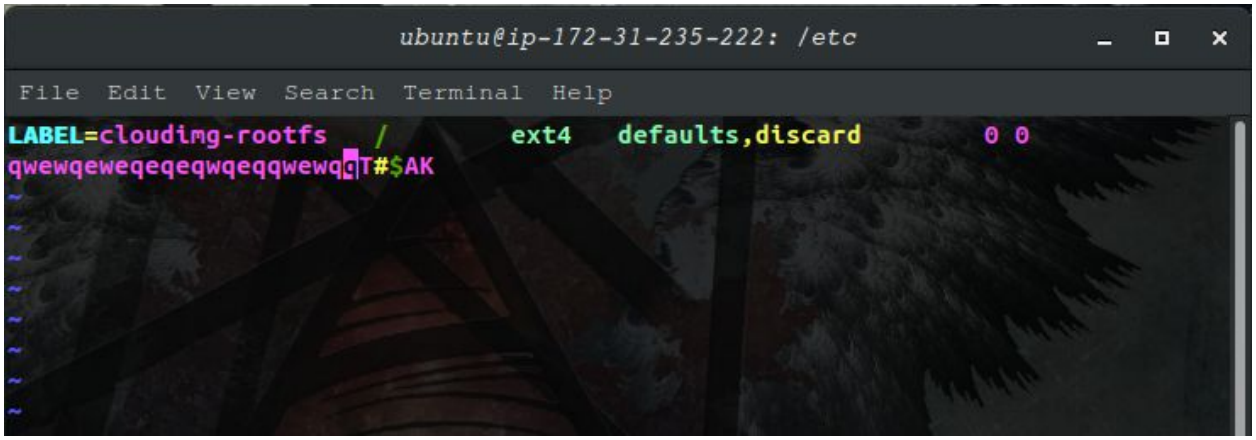


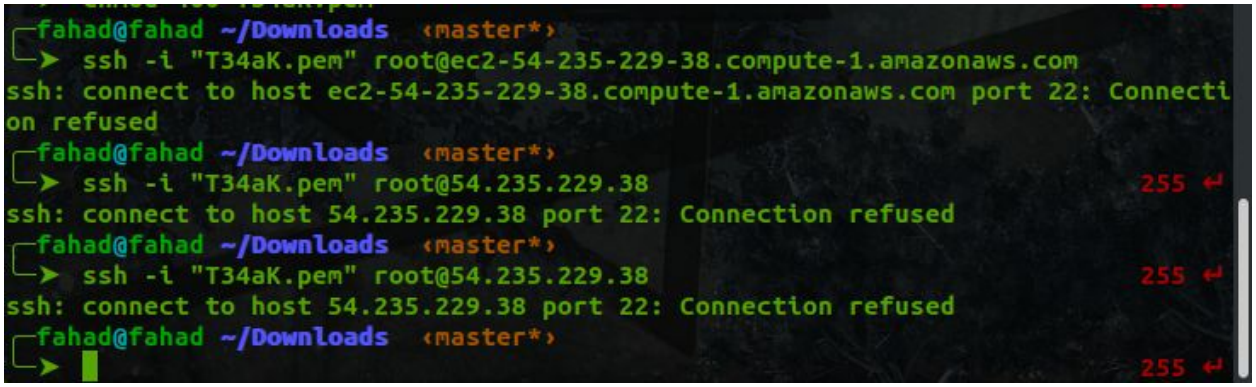
Now just going to ssh to the new Instance created and check for the nginx service and that all were workinng

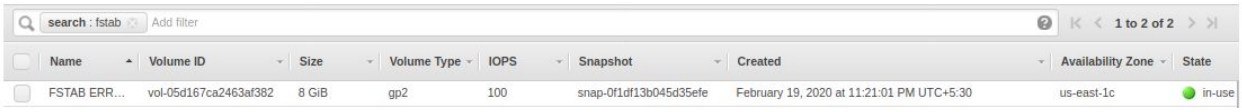


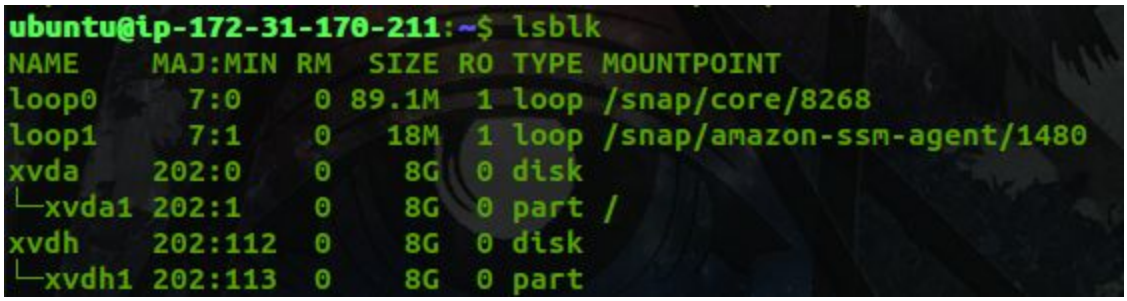
Ques 5:-Make some mistake in fstab file, stop and start the instance, then troubleshoot it.

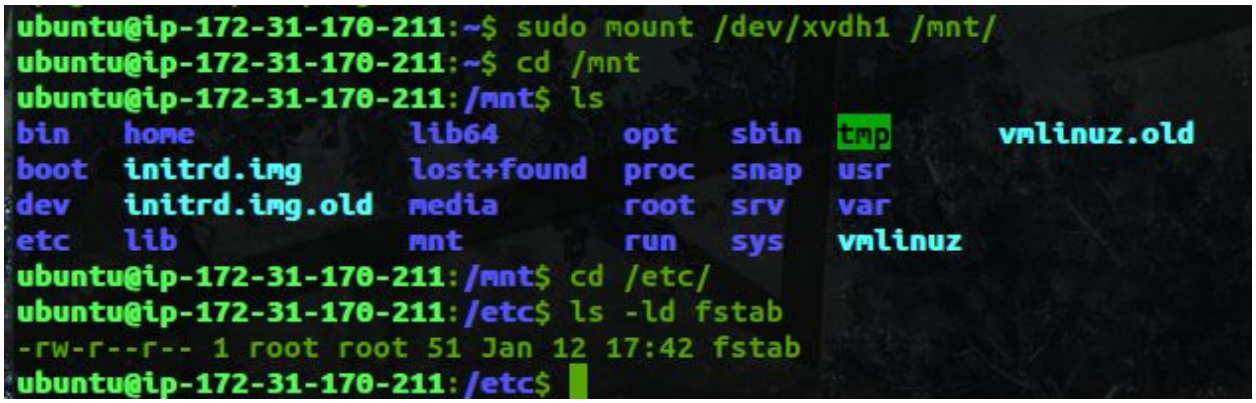
Ans 5:-

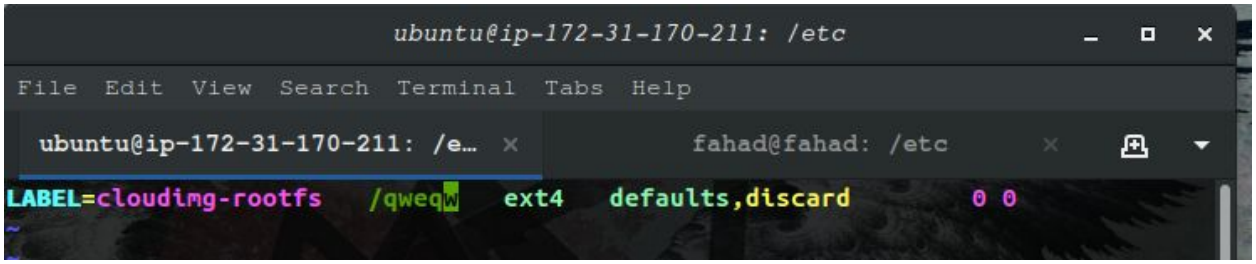

ubuntu@ip-172-31-235-222: /etc
File Edit View Search Terminal Help
LABEL=cloudimg-rootfs / ext4 defaults,discard 0 0
qwewqeweqeqeqwqeqqwewqgT#$AK

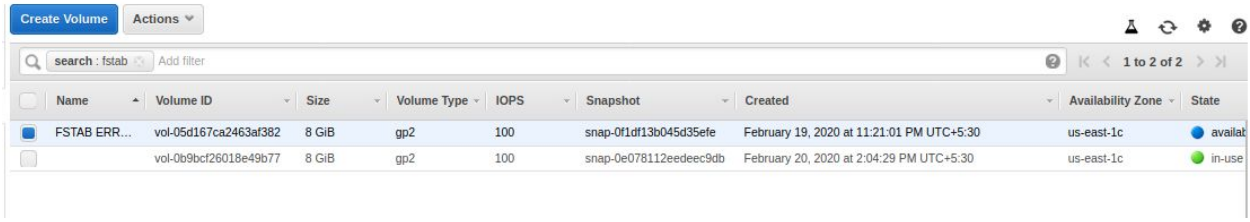

fahad@fahad ~/Downloads ‹master*›
ssh -i "T34aK.pem" root@ec2-54-235-229-38.compute-1.amazonaws.com
ssh: connect to host ec2-54-235-229-38.compute-1.amazonaws.com port 22: Connecti
on refused
fahad@fahad ~/Downloads ‹master*›
ssh -i "T34aK.pem" root@54.235.229.38 255
ssh: connect to host 54.235.229.38 port 22: Connection refused
fahad@fahad ~/Downloads ‹master*›
ssh -i "T34aK.pem" root@54.235.229.38 255
ssh: connect to host 54.235.229.38 port 22: Connection refused
fahad@fahad ~/Downloads ‹master*›
255


search : fstab
Add filter
1 to 2 of 2
Name
Volume ID
Size
Volume Type
IOPS
Snapshot
Created
Availability Zone
State
FSTAB ERR...
vol-05d167ca2463af382
8 GiB
gp2
100
snap-0f1df13b045d35efe
February 19, 2020 at 11:21:01 PM UTC+5:30
us-east-1c
in-use


ubuntu@ip-172-31-170-211:~$ lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
loop0 7:0 0 89.1M 1 loop /snap/core/8268
loop1 7:1 0 18M 1 loop /snap/amazon-ssm-agent/1480
xvda 202:0 0 8G 0 disk
└xvda1 202:1 0 8G 0 part /
xvdh 202:112 0 8G 0 disk
└xvdh1 202:113 0 8G 0 part


ubuntu@ip-172-31-170-211:~$ sudo mount /dev/xvdh1 /mnt/
ubuntu@ip-172-31-170-211:~$ cd /mnt
ubuntu@ip-172-31-170-211:/mnt$ ls
bin home lib64 opt sbin tmp vmlinuz.old
boot initrd.img lost+found proc snap usr
dev initrd.img.old media root srv var
etc lib mnt run sys vmlinuz
ubuntu@ip-172-31-170-211:/mnt$ cd /etc/
ubuntu@ip-172-31-170-211:/etc$ ls -ld fstab
-rw-r--r-- 1 root root 51 Jan 12 17:42 fstab
ubuntu@ip-172-31-170-211:/etc$


ubuntu@ip-172-31-170-211: /etc
File Edit View Search Terminal Tabs Help
ubuntu@ip-172-31-170-211: /e…
fahad@fahad: /etc
LABEL=cloudimg-rootfs /qweqw ext4 defaults,discard 0 0


Create Volume
Actions
search : fstab
Add filter
1 to 2 of 2
Name
Volume ID
Size
Volume Type
IOPS
Snapshot
Created
Availability Zone
State
FSTAB ERR…
vol-05d167ca2463af382
8 GiB
gp2
100
snap-0f1df13b045d35efe
February 19, 2020 at 11:21:01 PM UTC+5:30
us-east-1c
vol-0b9bcf26018e49b77
8 GiB
gp2
100
snap-0e078112eedeec9db
February 20, 2020 at 2:04:29 PM UTC+5:30
us-east-1c
in-use