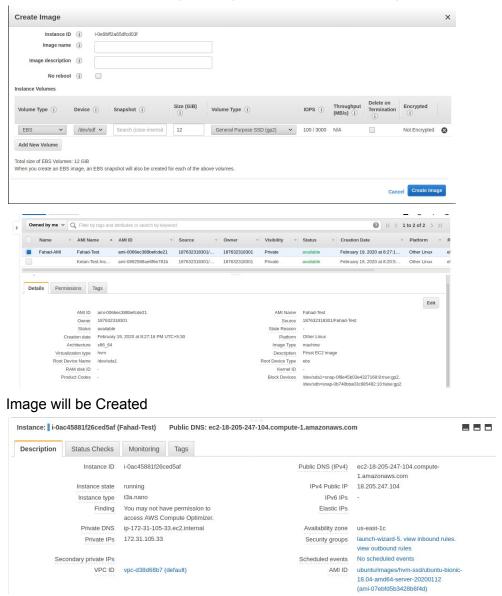
AWS

```
ubuntu@ip-172-31-105-33: -
                                                                             sudo bin/mongod --port 27009 ×
                                          ubuntu@ip-172-31-105-33: ~ ×
                                                                            毢
fahad@fahad ~/Downloads <master*>
> ssh -i "T34aK.pem" ubuntu@ec2-18-205-247-104.compute-1.amazonaws.com
The authenticity of host 'ec2-18-205-247-104.compute-1.amazonaws.com (18.205.247
.104)' can't be established.
ECDSA key fingerprint is SHA256:mF3LTBZJ1R0EoM0FFkhSi2jQZB09CdmH7yhBHn10UDs.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-18-205-247-104.compute-1.amazonaws.com,18.205.24
7.104' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
 * Management:
                   https://ubuntu.com/advantage
 * Support:
 System information disabled due to load higher than 2.0
O packages can be updated.
O updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
ubuntu@ip-172-31-105-33:-$
```

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



After launching through ssh

```
-fahad@fahad ~/Downloads ⟨master*⟩
-> ssh -i "T34aK.pem" ubuntu@ec2-100-24-44-179.compute-1.amazonaws.com
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                   https://landscape.canonical.com
                   https://ubuntu.com/advantage
 * Support:
  System information as of Wed Feb 19 15:25:06 UTC 2020
  System load: 0.0
                                   Processes:
  Usage of /: 13.8% of 7.69GB
                                   Users logged in:
  Memory usage: 33%
                                   IP address for ens5: 172.31.84.91
  Swap usage: 0%
o packages can be updated.
O updates are security updates.
Last login: Wed Feb 19 14:48:41 2020 from 103.83.127.156
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-84-91:-$
```

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

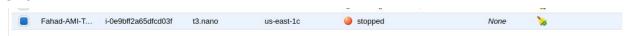


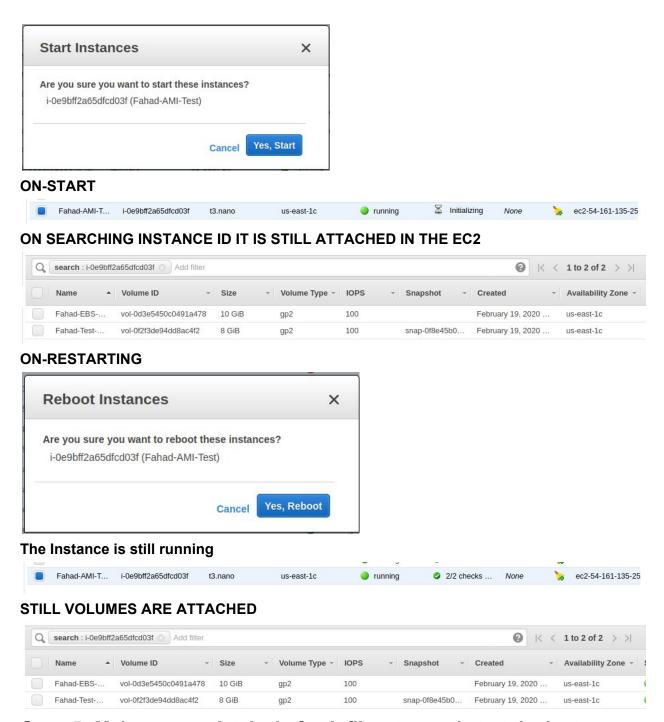
For attaching the EBS we first have to create the volume then by clicking on actions and clicking on attach volume it will be attached



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

Ans 4:-STOP

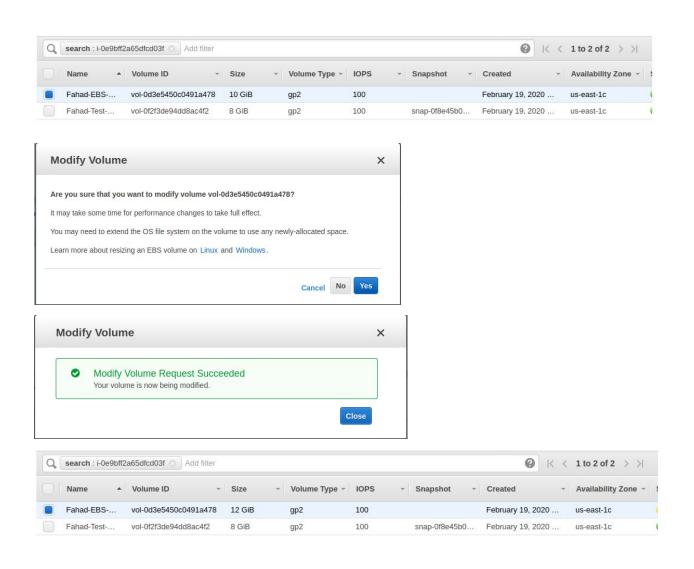




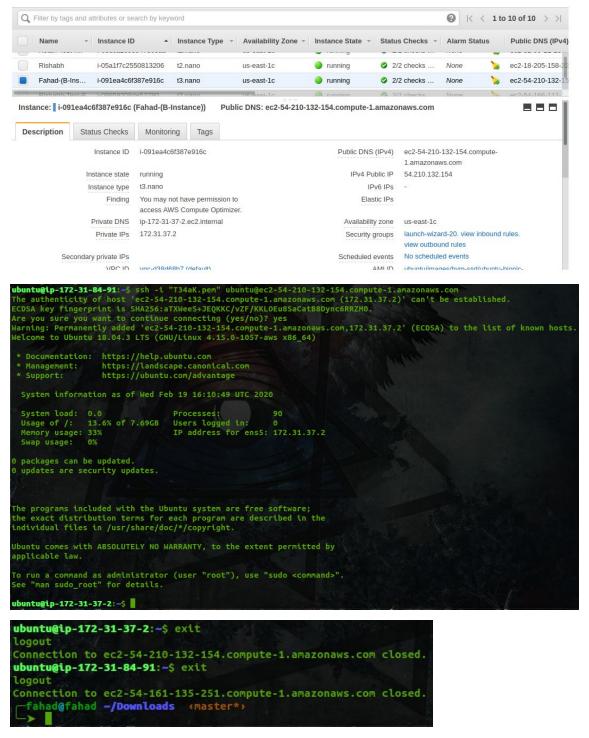
Ques 5:-Make some mistake in fstab file, stop and start the instance, then troubleshoot it.

Ans 5:-

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



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



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

```
Last login: Wed Feb 19 17:42:09 2020 from 103.83.127.158

ubuntu@ip-172-31-37-2:-$ sudo service nginx status

onginx.service - A high performance web server and a reverse proxy server

Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)

Active: active (running) since Wed 2020-02-19 17:42:41 UTC; 3min 26s ago

Docs: man:nginx(8)

Main PID: 1952 (nginx)

Tasks: 3 (limit: 522)

CGroup: /system.slice/nginx.service

- 1952 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;

- 1953 nginx: worker process

- 1954 nginx: worker process

Feb 19 17:42:41 ip-172-31-37-2 systemd[1]: Starting A high performance web server and a reverse proxy server.

Feb 19 17:42:41 ip-172-31-37-2 systemd[1]: Started A high performance web server and a reverse proxy server.

ubuntu@ip-172-31-37-2:-$ exit
```

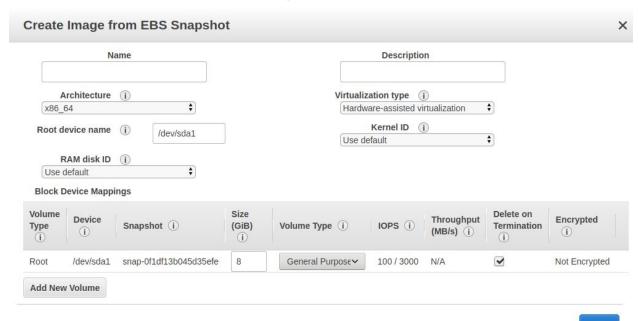
Then we have to create the snapshot of the volume

on defends a constall.	
08d6f38fb6e6294df	
or Nginx	•
or Nginx	0
	-08d6f38fb6e6294df 3 or Nginx

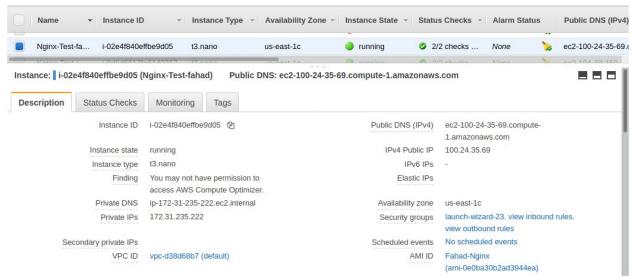
Then we have to Detach the volume from the console



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 working

```
ubuntu@ip-172-31-235-222:-$
ubuntu@ip-172-31-235-222:-$ sudo service nginx status

● nginx.service - A high performance web server and a reverse proxy server
Loaded: loaded (/ltb/systemd/system/nginx.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2020-02-19 17:51:29 UTC; 34s ago
Docs: man:nginx(8)
Process: 861 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
Process: 791 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
Main PID: 865 (nginx)
Tasks: 3 (limit: 522)
CGroup: /system.slice/nginx.service
865 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
866 nginx: worker process
867 nginx: worker process
867 nginx: worker process
Feb 19 17:51:29 ip-172-31-235-222 systemd[1]: Starting A high performance web server and a reverse proxy server.
Feb 19 17:51:29 ip-172-31-235-222 systemd[1]: Started A high performance web server and a reverse proxy server.
ubuntu@ip-172-31-235-222:-$
```