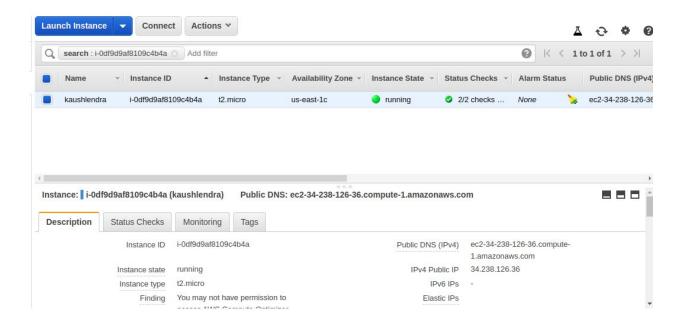
# **Elastic Cloud Compute**

# Ques 1 . . Create an EC2 instance (Ubuntu 18.04, T3 nano).(instance A)

#### Ans 1.



#### Ques 2. Create AMI of above instance and launch it. (instance B)

#### Ans 2.

A.M. IMAGES INVESTIGATION IPv4 Public IP 54.172.150.87 IPv6 IPs Elastic IPs Availability zone us-east-1c launch-wizard-15. view inbound rules. Security groups view outbound rules No scheduled events Scheduled events kaushlendra 2 (ami-AMI ID 0d8558d71a225db8b) Platform IAM role

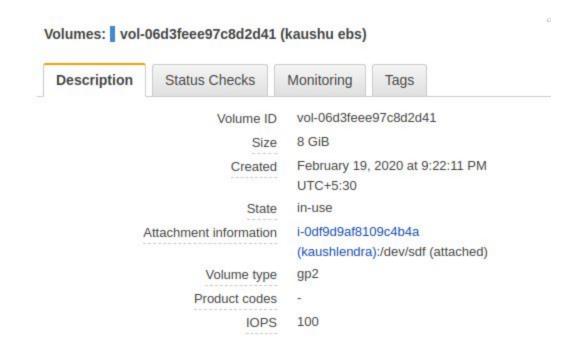


```
kaushlendra@kaushlendra:<mark>Downloads $</mark> ssh -i "kaushu.pem" ubuntu@ec2-54-172-150-87.compute-1.amazonaws.com
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)
 * Documentation: https://help.ubuntu.com
                      https://landscape.canonical.com
https://ubuntu.com/advantage
 * Management:
 * Support:
  System information as of Wed Feb 19 15:34:21 UTC 2020
  System load: 0.0
                                         Processes:
                                                                  87
  Usage of /: 13.8% of 7.69GB Users logged in:
  Memory usage: 14%
                                         IP address for eth0: 172.31.41.97
  Swap usage: 0%
Terminal
0 packages can be updated.
 updates are security updates.
Last login: Wed Feb 19 15:12:33 2020 from 103.83.127.156
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-41-97:~$
```

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

#### Ans 3.



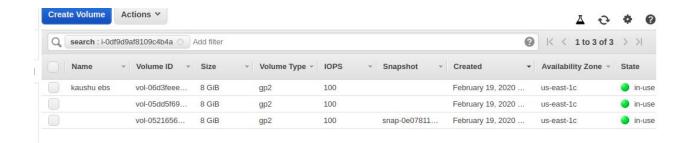


#### Ques 4. Stop, Start, Restart that EBS (EBS must be auto-attached).

### Ans 4. Instance Stopped



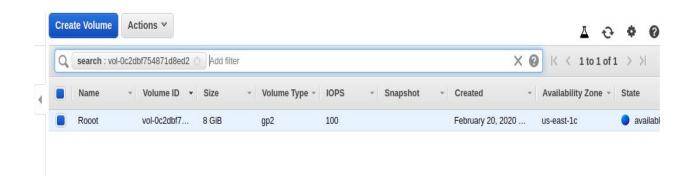
Ebs is Attached as they were attached earlier.



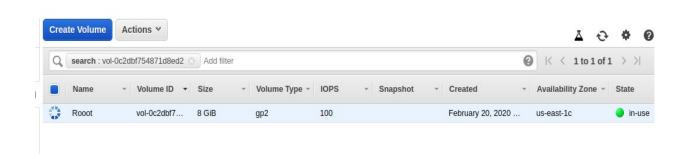
Ques 5. Make some mistake in fstab file, stop and start the instance, then troubleshoot it.

Ans 5.

#### CREATED INSTANCE 1 AND DONE SOME CHANGES IN FSTAB



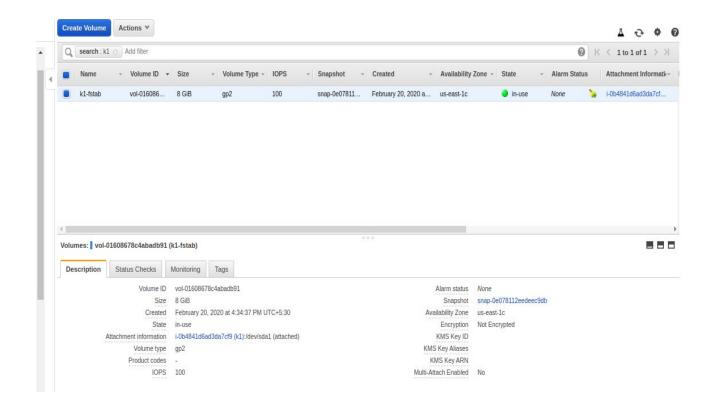
#### THEN DETTACH THE EBS FROM INSTANCE 1



AFTER THIS CREATED A NEW INSTANCE 2 AND ATTACHED THE DETACH ROOT EBS OF INSTANCE 1

#### AFTER THIS SOLVE THE ERROR IN ATTCHED ROOT EBS

#### THEN AGAIN ATTACH THE ROOT EBS INSTANCE 1



#### AFTER ATTACHING THE ERROR SOLVED

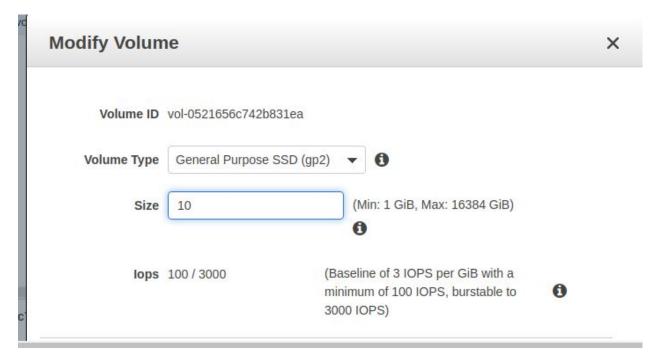
```
File Edit View Search Terminal Tabs Help

ubuntu@ip-172-31-178-238: ~ ×

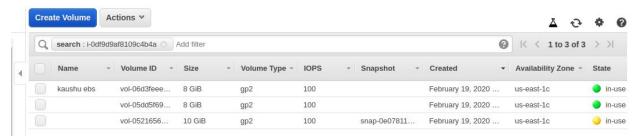
LABEL=cloudimg-rootfs / ext4 defaults,discard 0 0
```

#### Ques 6. Resize the EBS from 8 to 10GB

Ans 6.



## Status after resizing the EBS

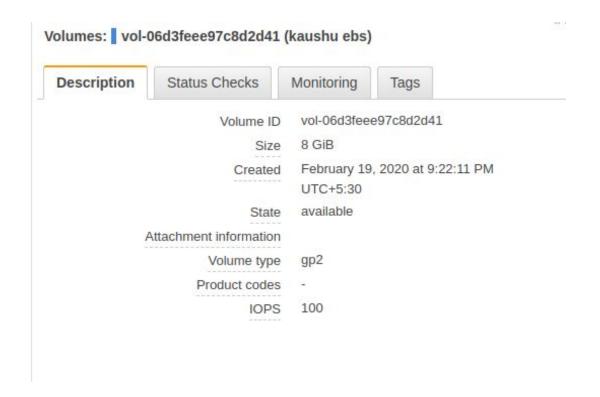


Ques 7. SSH from one instance A to instance B.

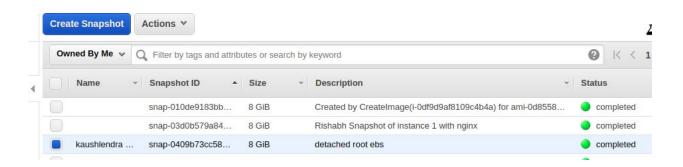
#### Ans 7.

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. The root EBS has been detached



#### **Creating snapshot**



INSTALL NGINX AT THE BOOT TIME WITH THE HELP OF USER DATA

#### View/Change User Data

X

Instance ID: i-0b2e11aacb01fe9ce

User Data:

```
#!/bin/bash
sudo apt-get update -y
sudo apt-get install nginx -y
sudo systemctl start nginx
sudo systemctl enable nginx
```

To edit your instance's user data you first need to stop your instance.

#### **NGINX INSTALLED**

```
ubuntu@ip-172-31-247-151:~$ 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: en
  Active: active (running) since Thu 2020-02-20 08:28:44 UTC; 1min 43s ago
    Docs: man:nginx(8)
 Main PID: 2366 (nginx)
   Tasks: 2 (limit: 1152)
   CGroup: /system.slice/nginx.service
            -2366 nginx: master process /usr/sbin/nginx -g daemon on; master_pro
           └─2368 nginx: worker process
Feb 20 08:28:44 ip-172-31-247-151 systemd[1]: Starting A high performance web se
Feb 20 08:28:44 ip-172-31-247-151 systemd[1]: nginx.service: Failed to parse PID
<u>Feb 20 08:28:44 ip-</u>172-31-247-151 systemd[1]: Started A high performance web ser
lines 1-13/13 (END)...skipping...
nginx.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 Thu 2020-02-20 08:28:44 UTC; 1min 43s ago
    Docs: man:nginx(8)
 Main PID: 2366 (nginx)
   Tasks: 2 (limit: 1152)
   CGroup: /system.slice/nginx.service
            -2366 nginx: master process /usr/sbin/nginx -g daemon on; master process on;
           2368 nginx: worker process
```