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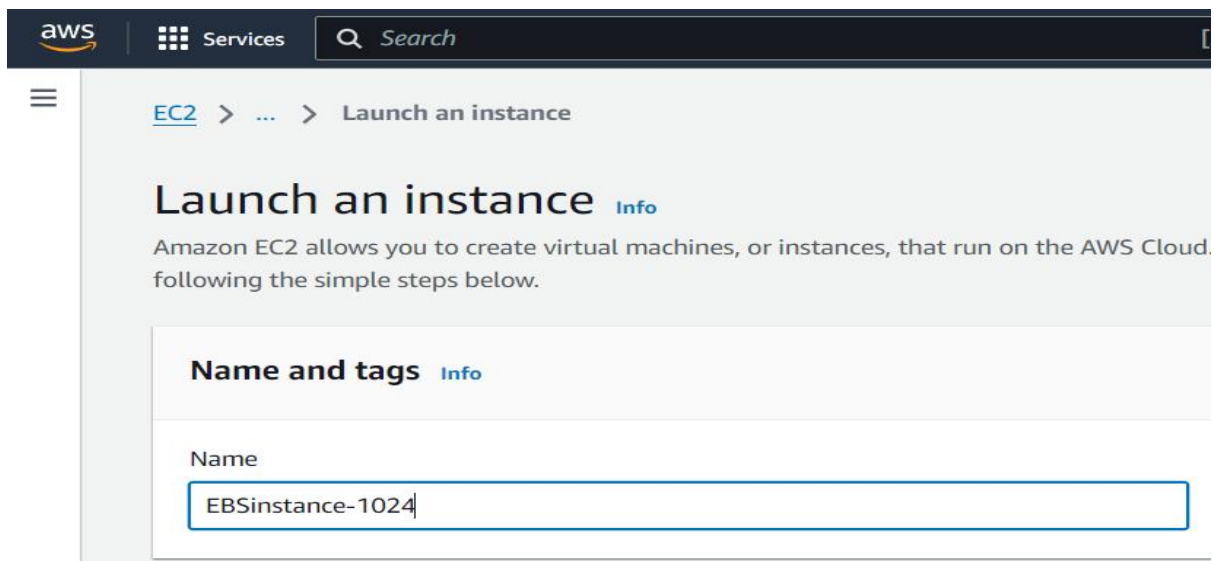
Name of the Student: Shrushti Krishna shrivastav   **PRN:** 20220801024

Title of Practical :   Managing and Optimizing Amazon EBS Volumes in AWS

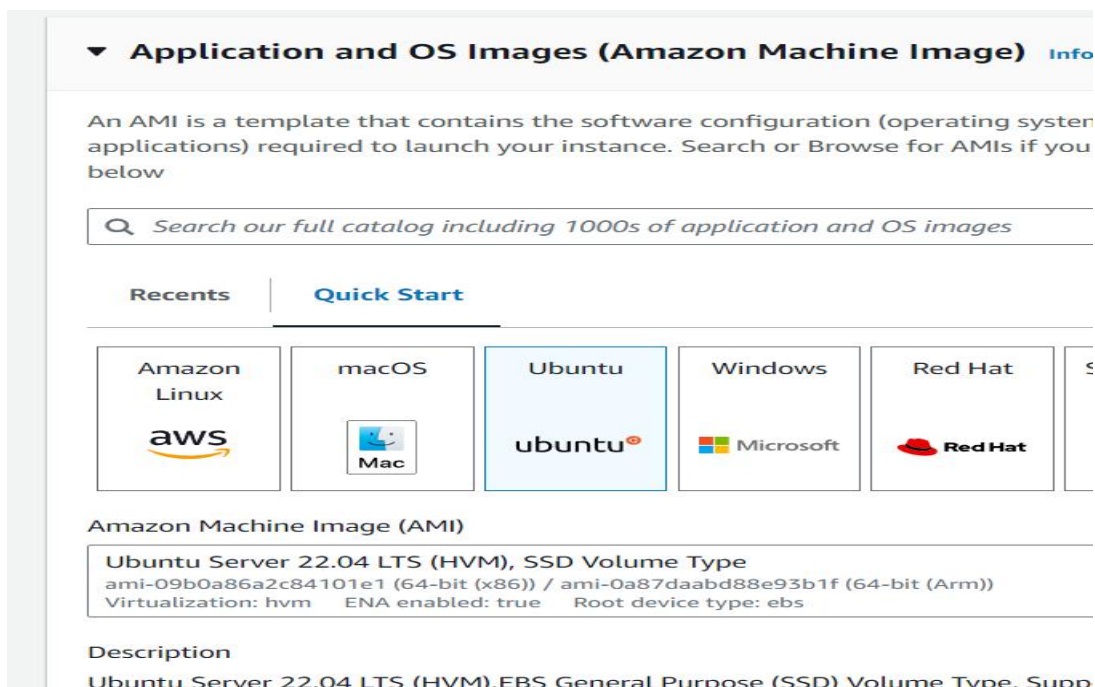### STEP1: LAUNCH ONE EC2 INSTANCE WITH SSH AND HTTP SECURITY GROUP

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▼ **Instance type** Info | Get advice

Instance type

t2.micro
Family: t2   1 vCPU   1 GiB Memory   Current ge
On-Demand Linux base pricing: 0.0124 USD per Ho
On-Demand Windows base pricing: 0.017 USD per
On-Demand RHEL base pricing: 0.0268 USD per Ho
On-Demand Ubuntu Pro base pricing: 0.0142 USD
On-Demand SUSE base pricing: 0.0124 USD per Ho

Additional costs apply for AMIs with pre-insta

▼ **Key pair (login)** Info

You can use a key pair to securely connect to
before you launch the instance.

Key pair name – *required*

IOdemo1

▼ **Network settings** Info

Network | Info

vpc-0662aa9456cd34d0a | -defaultVPC-

Subnet | Info

No preference (Default subnet in any availability zone)

Auto-assign public IP | Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) | Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific t
instance.

○ Create security group   ● Select existing security group

Common security groups | Info

Select security groups ▼

SG-CCSA-TY-1024   sg-08f4e0d7ab53772a8 ✕
VPC: vpc-0662aa9456cd34d0a

Security groups that you add or remove here will be added to or removed from all your network interfaces.

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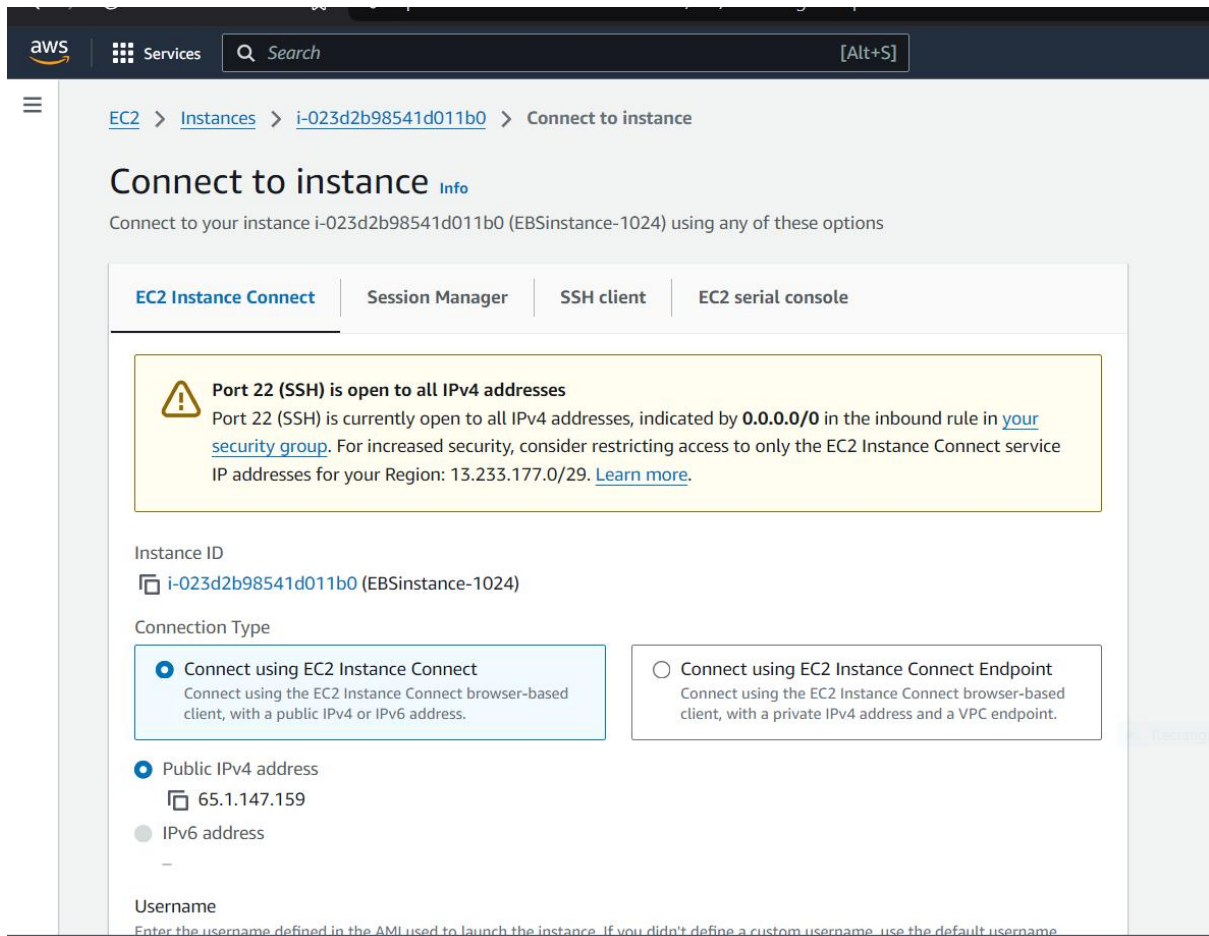**Subject : Infrastructure Orchestration (P)**

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STEP2: CONNECT TO INSTANCE

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STEP3: go to root directory

```
ubuntu@ip-172-31-14-212:~$ sudo -i
root@ip-172-31-14-212:~#
```

STEP4: update the system

```
root@ip-172-31-14-212:~# apt-get update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu
```

STEP5: Install the packages

```
root@ip-172-31-14-212:~#
root@ip-172-31-14-212:~# apt-get install wget zip unzip apache2 -y
Reading package lists... Done
```

Command for apache2 verification

```
root@ip-172-31-14-212:~#
root@ip-172-31-14-212:~# systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service
     Active: active (running) since Tue 2024-11-05 14:02
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2513 (apache2)
```

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STEP6: Go to Free CSS website and copy the zip link address of any html website

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STEP7: Download the zip file in EC2 instance

```
root@ip-172-31-14-212:~#
root@ip-172-31-14-212:~# wget https://www.free-css.com/assets/files/free-css-templates/download/page296/carvilla.zip
```

```
i-023d2b98541d011b0 (EBSinstance-1024)
```

```
root@ip-172-31-14-212:~# ls
carvilla.zip  snap
```

Unzip the zip file--

```
root@ip-172-31-14-212:~#
root@ip-172-31-14-212:~# unzip carvilla.zip
Archive:  carvilla.zip
   creating: carvilla-v1.0/assets/
```

```
root@ip-172-31-14-212:~# ls
carvilla-v1.0  carvilla.zip  snap
root@ip-172-31-14-212:~#
```

Now go to that unzip folder and move all files and folder into server directory--

```
root@ip-172-31-14-212:~# cd carvilla-v1.0/
root@ip-172-31-14-212:~/carvilla-v1.0#
```

```
root@ip-172-31-14-212:~/carvilla-v1.0# ls
assets  index.html  readme.txt
```

```
root@ip-172-31-3-118:~/carvilla-v1.0# mv * /var/www/html/
root@ip-172-31-3-118:~/carvilla-v1.0# cd /var/www/html/
root@ip-172-31-3-118:/var/www/html#
```

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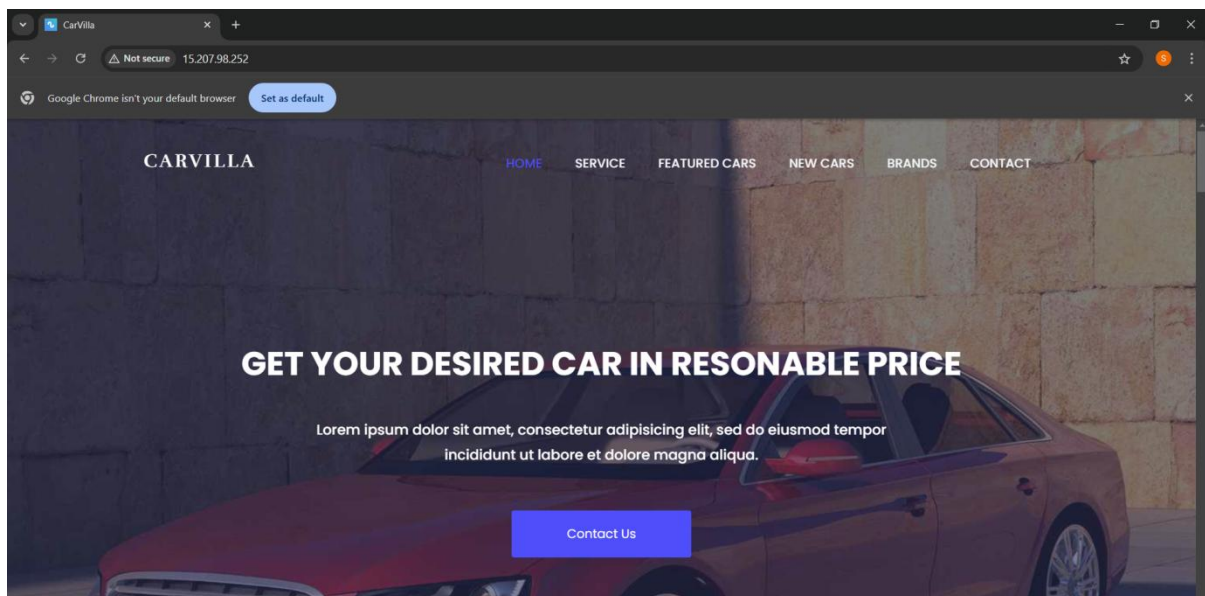**Title of Practical :** Managing and Optimizing Amazon EBS Volumes in AWS

```
root@ip-172-31-3-118:/var/www/html# ls
assets  index.html  readme.txt
root@ip-172-31-3-118:/var/www/html#
```

```
root@ip-172-31-3-118:/var/www/html# cd assets/
root@ip-172-31-3-118:/var/www/html/assets#
```

```
root@ip-172-31-3-118:/var/www/html/assets# ls
css  fonts  images  js  logo
```

```
root@ip-172-31-3-118:/var/www/html/assets# cd images/
root@ip-172-31-3-118:/var/www/html/assets/images# ls
brand  clients  featured-cars  new-cars-model  welcome-hero
root@ip-172-31-3-118:/var/www/html/assets/images#
```

STEP8: check in browser if website is visible

Move to temp file

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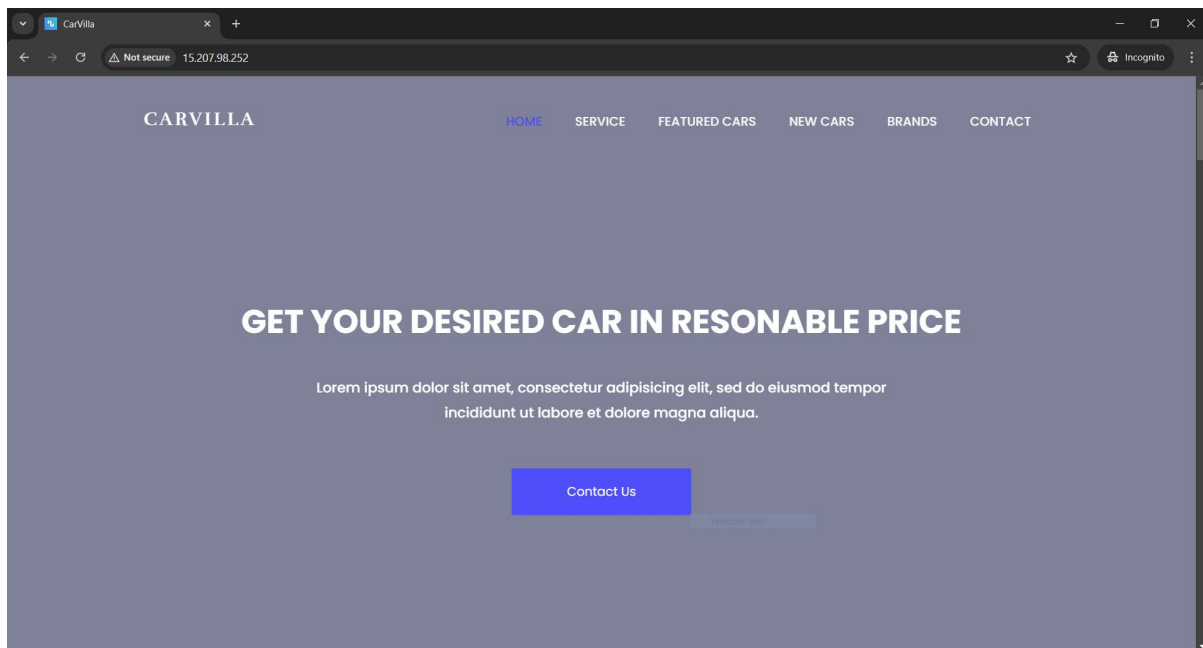**Name of the Student:**   **Shrushti Krishna shrivastav**   **PRN:**   **20220801024**

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```
root@ip-172-31-3-118:/var/www/html/assets/images#
root@ip-172-31-3-118:/var/www/html/assets/images# mkdir /tmp/all-img
root@ip-172-31-3-118:/var/www/html/assets/images# mv * /tmp/all-img/
root@ip-172-31-3-118:/var/www/html/assets/images# ls
root@ip-172-31-3-118:/var/www/html/assets/images#
```

Refresh the page---


```
root@ip-172-31-3-118:/var/www/html/assets/images# cd
root@ip-172-31-3-118:~#
```

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# ls /tmp/all-img/
brand  clients  featured-cars  new-cars-model  welcome-hero
root@ip-172-31-3-118:~#
```

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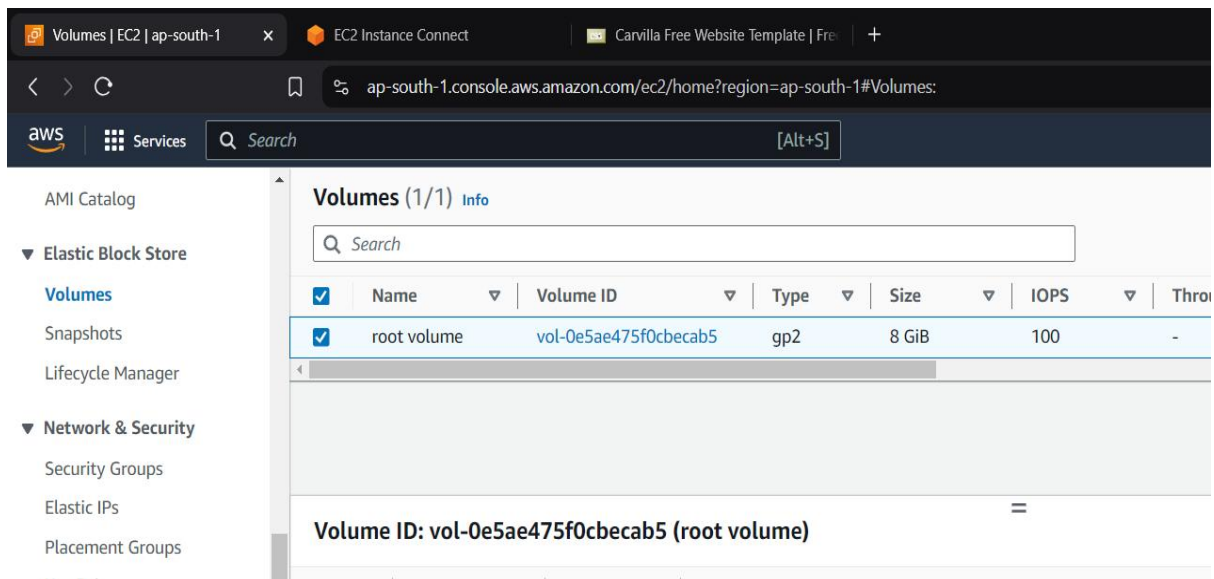**Name of the Student:**   Shrushti Krishna shrivastav   **PRN:**   20220801024

Title of Practical :   Managing and Optimizing Amazon EBS Volumes in AWS

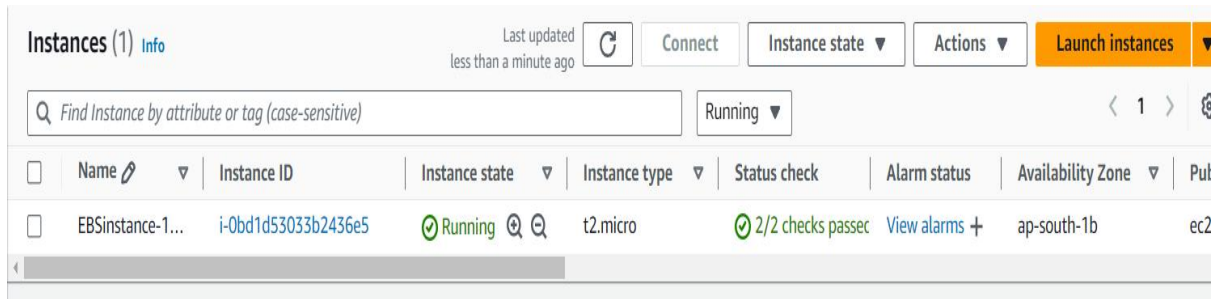**STEP9: create one ebs volume and attach to ec2**

This is root volume--

Go to instance and check the Availability Zone of your instance, as AZ of Volume must be same as instance

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Create volume

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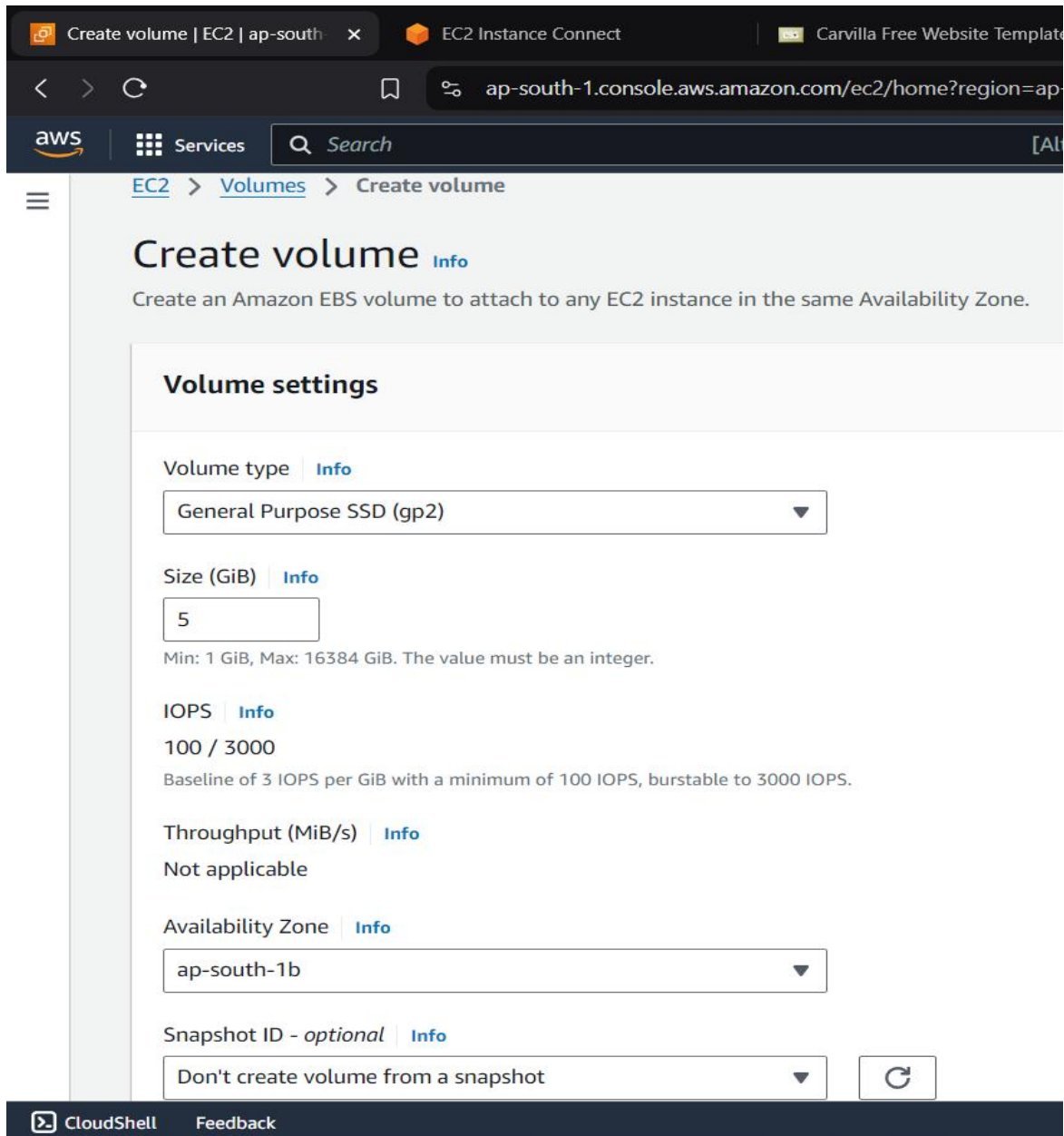**Name of the Student:**   Shrushti Krishna shrivastav   **PRN:**   20220801024

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The volume created is not attached yet to the instance--

```
root@ip-172-31-3-118:~# df -h
Filesystem     Size  Used Avail Use% Mounted on
/dev/root      7.6G  1.9G  5.8G  25% /
tmpfs          479M     0  479M   0% /dev/shm
tmpfs          192M  872K  191M   1% /run
tmpfs          5.0M     0  5.0M   0% /run/lock
/dev/xvda15    105M  6.1M   99M   6% /boot/efi
tmpfs           96M  4.0K   96M   1% /run/user/1000
root@ip-172-31-3-118:~#
```

Go to volume and attach it to instance--

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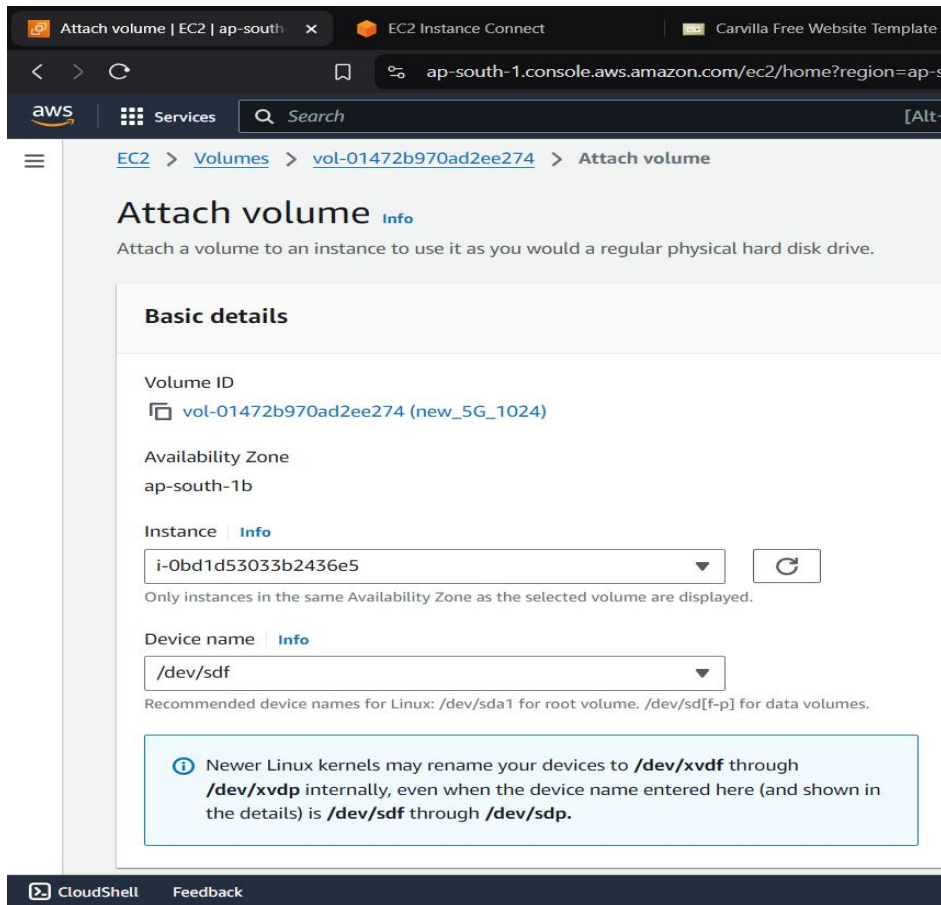## B.C.A. TY (CCSA)
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STEP10: Partition the volume

Check whether attach volume is available in ec2 or not, use 'fdisk -l' command

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# fdisk -l
Disk /dev/loop0: 25.24 MiB, 26464256 bytes, 51688 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

Start partition---

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# fdisk /dev/xvdf

Welcome to fdisk (util-linux 2.37.2).
Changes will remain in memory only, until you decide
Be careful before using the write command.
```

```
Command (m for help): m

Help:

  DOS (MBR)
   a   toggle a bootable flag
```

n - New partition

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```
Command (m for help): n
Partition type
   p   primary (0 primary, 0 extended, 4 free)
   e   extended (container for logical partitions)
Select (default p):
```

p - Primary partition

```
   e   extended (container for logica
Select (default p): p
Partition number (1-4, default 1):
```

```
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-10485759, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-10485759, default 10485759):

Created a new partition 1 of type 'Linux' and of size 5 GiB.

Command (m for help):
```

p - View partition table

```
Command (m for help): p
Disk /dev/xvdf: 5 GiB, 5368709120 bytes, 10485760 sector
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0xe5d49732

Device     Boot Start      End  Sectors Size Id Type
/dev/xvdf1       2048 10485759 10483712   5G 83 Linux

Command (m for help):
```

w - Write changes

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```
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.

root@ip-172-31-3-118:~#
```

Check partition done or not---

```
root@ip-172-31-3-118:~# fdisk -l
Disk /dev/loop0: 25.24 MiB, 26464256 bytes, 516
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512
I/O size (minimum/optimal): 512 bytes / 512 byt
```

```
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0xe5d49732

Device     Boot Start        End  Sectors Size Id Type
/dev/xvdf1      2048 10485759 10483712   5G 83 Linux
root@ip-172-31-3-118:~#
```

i-0bd1d53033b2436e5 (EBSinstance-1024)

rmat partition: mkfs.ext4 /dev/xvdd1.

```
root@ip-172-31-3-118:~# mkfs.ext4 /dev/xvdf1
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 1310464 4k blocks and 327680 inodes
Filesystem UUID: bc43a54b-5b2e-4d33-82f6-ae6eb9e745a2
Superblock backups stored on blocks:
        32768, 98304, 163840, 229376, 294912, 819200, 884736

Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done

root@ip-172-31-3-118:~#
```

Permanent mounting--

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```
root@ip-172-31-3-118:~# vi /etc/fstab
root@ip-172-31-3-118:~#
```

Volumes | EC2 | ap-south-1   EC2 Instance Connect   ×   Carvilla Free Website Template | Fre   +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connTy

aws   Services   Q Search   [Alt+S]

```
iLABEL=cloudimg-rootfs  /          ext4    discard,errors=remount-ro    0 1

LABEL=UEFI       /boot/efi     vfat    umask=0077      0 1
/dev/xvdf1       /var/www/html/assets/images    ext4    defaults      0       0
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```

i-0bd1d53033b2436e5 (EBSinstance-1024)

PublicIPs: 15.207.98.252   PrivateIPs: 172.31.3.118

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```
root@ip-172-31-3-118:~# mount -a
root@ip-172-31-3-118:~# df -h
Filesystem       Size   Used  Avail Use% Mounted on
/dev/root        7.6G   1.9G   5.8G  25% /
tmpfs            479M      0   479M   0% /dev/shm
tmpfs            192M   880K   191M   1% /run
tmpfs            5.0M      0   5.0M   0% /run/lock
/dev/xvda15      105M   6.1M    99M   6% /boot/efi
tmpfs             96M   4.0K    96M   1% /run/user/1000
/dev/xvdf1       4.9G    24K   4.6G   1% /var/www/html/assets/images
root@ip-172-31-3-118:~#
```

```
/dev/xvdf1       4.9G    24K   4.6G   1%
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# reboot
```

```
ubuntu@ip-172-31-3-118:~$
ubuntu@ip-172-31-3-118:~$ sudo -i
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# df -h
Filesystem       Size   Used  Avail Use% Mounted on
/dev/root        7.6G   1.9G   5.8G  25% /
tmpfs            479M      0   479M   0% /dev/shm
tmpfs            192M   888K   191M   1% /run
tmpfs            5.0M      0   5.0M   0% /run/lock
/dev/xvdf1       4.9G    24K   4.6G   1% /var/www/html/assets/images
/dev/xvda15      105M   6.1M    99M   6% /boot/efi
tmpfs             96M   4.0K    96M   1% /run/user/1000
root@ip-172-31-3-118:~#
```

BACKUP AND RECOVERY

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```
Last login: Tue Nov  5 16:08:47 2024 from 13.233.177.4
ubuntu@ip-172-31-3-118:~$
ubuntu@ip-172-31-3-118:~$
ubuntu@ip-172-31-3-118:~$
ubuntu@ip-172-31-3-118:~$ sudo -i
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       7.6G  1.9G  5.8G  25% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  888K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvdf1      4.9G   24K  4.6G   1% /var/www/html/assets/ima
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M  4.0K   96M   1% /run/user/1000
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# ls
carvilla-v1.0  carvilla.zip  snap
root@ip-172-31-3-118:~# rm -rf carvilla-v1.0/
root@ip-172-31-3-118:~#
```

```
root@ip-172-31-3-118:~# ls
carvilla.zip  snap
root@ip-172-31-3-118:~# unzip carvilla.zip
Archive:  carvilla.zip
   creating: carvilla-v1.0/assets/
   creating: carvilla-v1.0/assets/css/
  inflating: carvilla-v1.0/assets/css/animate.css
```

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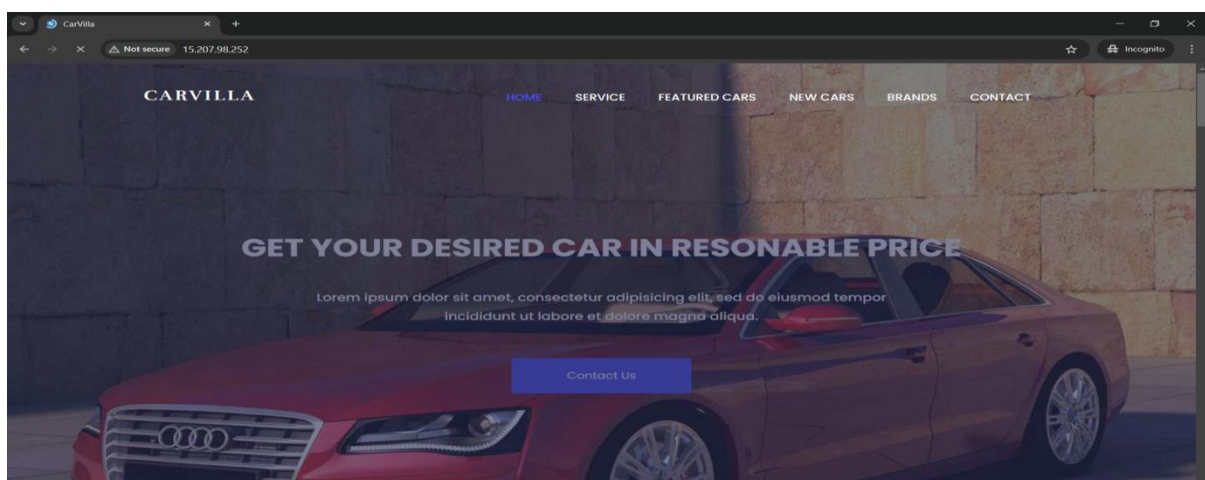**Title of Practical :** Managing and Optimizing Amazon EBS Volumes in AWS

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# ls
carvilla-v1.0   carvilla.zip   snap
root@ip-172-31-3-118:~#
```

```
root@ip-172-31-3-118:~# cd carvilla-v1.0/
root@ip-172-31-3-118:~/carvilla-v1.0#
```

```
root@ip-172-31-3-118:~/carvilla-v1.0# cd assets/
root@ip-172-31-3-118:~/carvilla-v1.0/assets# ls
css   fonts   images   js   logo
root@ip-172-31-3-118:~/carvilla-v1.0/assets#
```

```
root@ip-172-31-3-118:~/carvilla-v1.0/assets# cd images/
root@ip-172-31-3-118:~/carvilla-v1.0/assets/images# ls
brand   clients   featured-cars   new-cars-model   welcome-hero
root@ip-172-31-3-118:~/carvilla-v1.0/assets/images#
```

```
root@ip-172-31-3-118:~/carvilla-v1.0/assets/images# mv * /var/www/html/assets/images/
root@ip-172-31-3-118:~/carvilla-v1.0/assets/images# cd
root@ip-172-31-3-118:~#
```

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```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# cd /var/www/html/assets/images/
root@ip-172-31-3-118:/var/www/html/assets/images# ls
assets  brand  clients  featured-cars  index.html  lost+found  new-cars-model  readme.txt  welcome-hero
root@ip-172-31-3-118:/var/www/html/assets/images#
```

```
root@ip-172-31-3-118:/var/www/html/assets/images#
root@ip-172-31-3-118:/var/www/html/assets/images# cd
root@ip-172-31-3-118:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       7.6G  1.9G  5.8G  25% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  888K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvdf1      4.9G  4.7M  4.6G   1% /var/www/html/assets/images
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M  4.0K   96M   1% /run/user/1000
root@ip-172-31-3-118:~#
```

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# umount /var/www/html/assets/images/
root@ip-172-31-3-118:~#
```

i-0bd1d53033b2436e5 (EBSinstance-1024)

Here xvdf1 isn't visible---('df -h' command)

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# umount /var/www/html/assets/images/
root@ip-172-31-3-118:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       7.6G  1.9G  5.8G  25% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  888K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M  4.0K   96M   1% /run/user/1000
root@ip-172-31-3-118:~#
```

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Try with 'fdisk -l' and its visible---

```
Disk /dev/xvdf: 5 GiB, 5368709120 bytes, 10485760 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0xe5d49732

Device     Boot Start      End  Sectors Size Id Type
/dev/xvdf1      2048 10485759 10483712   5G 83 Linux
```

For disaster recovery we need snapshot and we havn't created snapshot so for now do temporary mounting and take snapshot of volume

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# mount /dev/xvdf1 /var/www/html/assets/images/
root@ip-172-31-3-118:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       7.6G  1.9G  5.8G  25% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  888K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M  4.0K   96M   1% /run/user/1000
/dev/xvdf1      4.9G  4.7M  4.6G   1% /var/www/html/assets/images
root@ip-172-31-3-118:~#
```

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Subject : Infrastructure Orchestration (P)

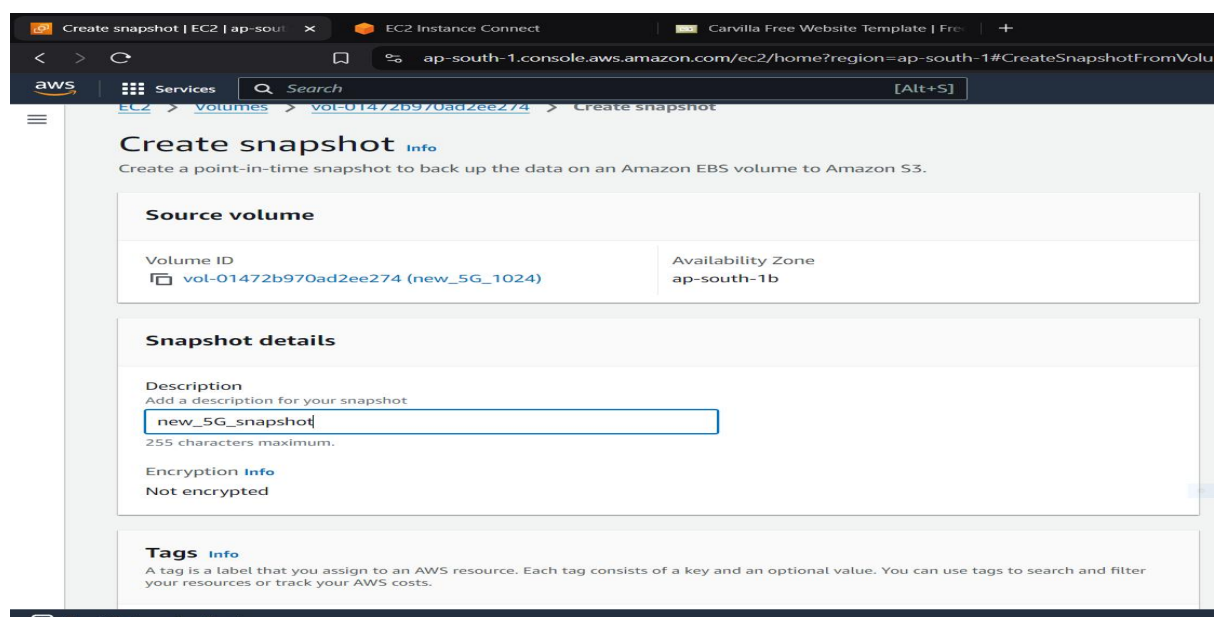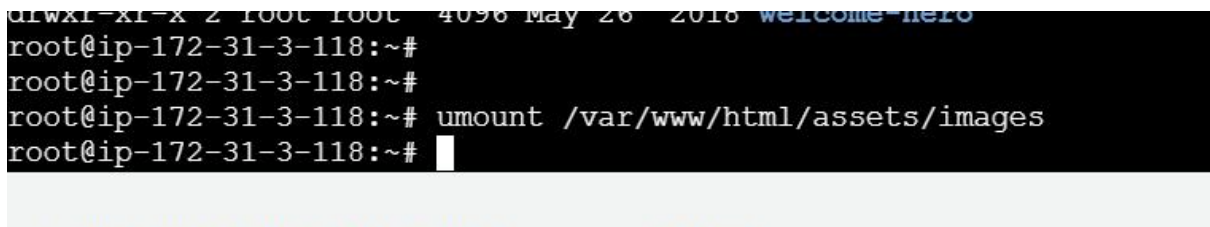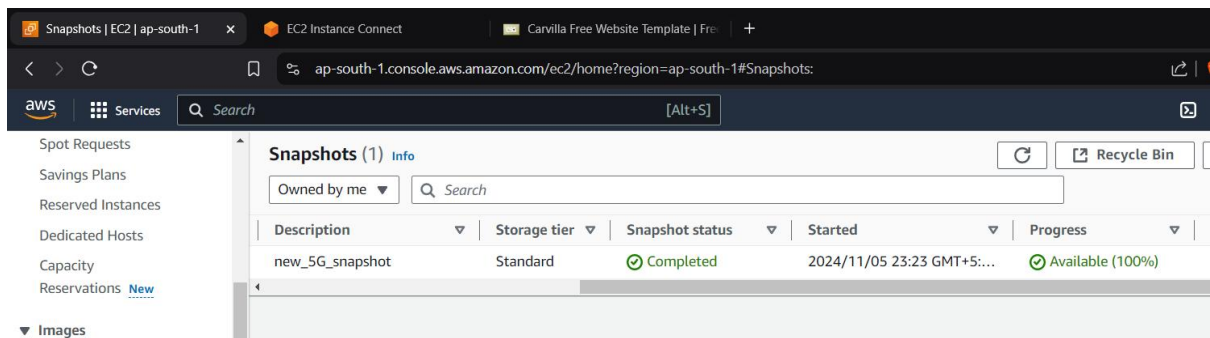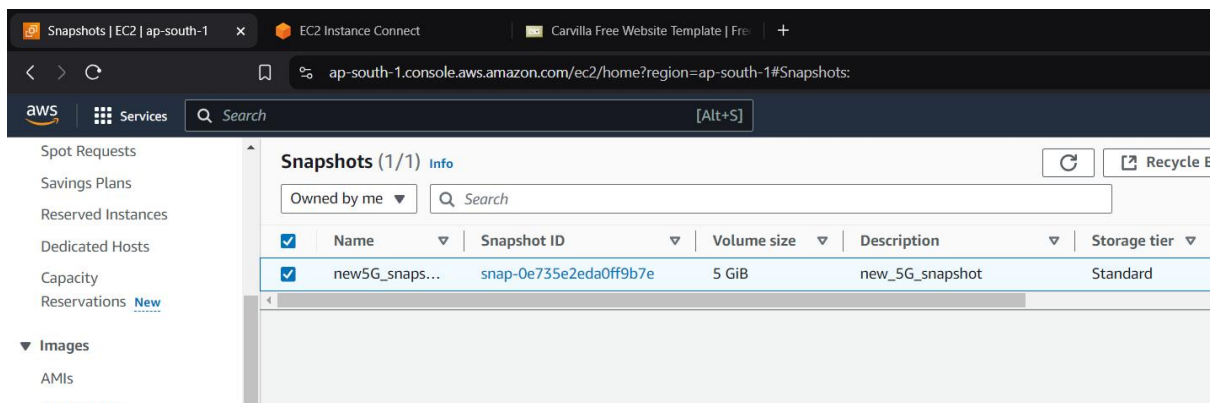**Name of the Student:**   Shrushti Krishna shrivastav   **PRN:**   20220801024

Title of Practical :   Managing and Optimizing Amazon EBS Volumes in AWS

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       7.6G  1.9G  5.8G  25% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  888K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M  4.0K   96M   1% /run/user/1000
/dev/xvdf1      4.9G  4.7M  4.6G   1% /var/www/html/assets/images
root@ip-172-31-3-118:~#
```

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# ls -l /var/www/html/assets/images/
total 76
drwxr-xr-x 7 root root  4096 May 24  2018 assets
drwxr-xr-x 2 root root  4096 May 24  2018 brand
drwxr-xr-x 2 root root  4096 May 24  2018 clients
drwxr-xr-x 2 root root  4096 May 26  2018 featured-cars
-rw-r--r-- 1 root root 30896 Jun  5  2018 index.html
drwx------ 2 root root 16384 Nov  5 16:40 lost+found
drwxr-xr-x 2 root root  4096 May 26  2018 new-cars-model
-rw-r--r-- 1 root root   889 Jun 13  2018 readme.txt
drwxr-xr-x 2 root root  4096 May 26  2018 welcome-hero
root@ip-172-31-3-118:~#
```

Take snapshot ---

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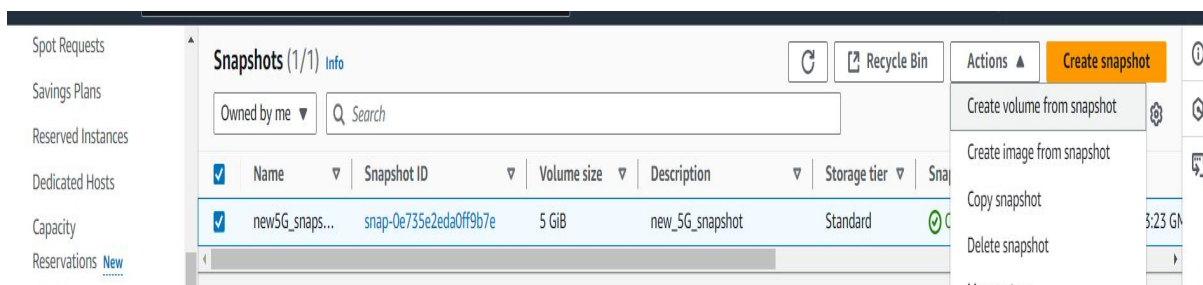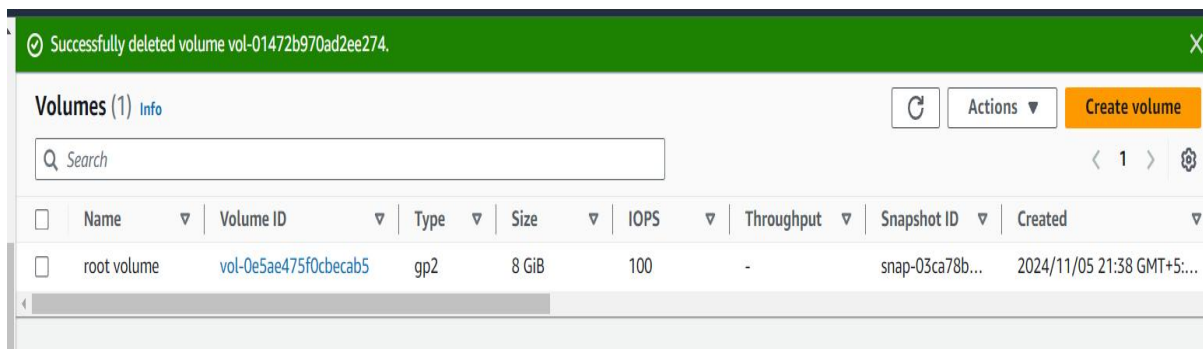# Subject : Infrastructure Orchestration (P)

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Title of Practical :   Managing and Optimizing Amazon EBS Volumes in AWS

School of Computer Science, Engineering and Applications(SCSEA)
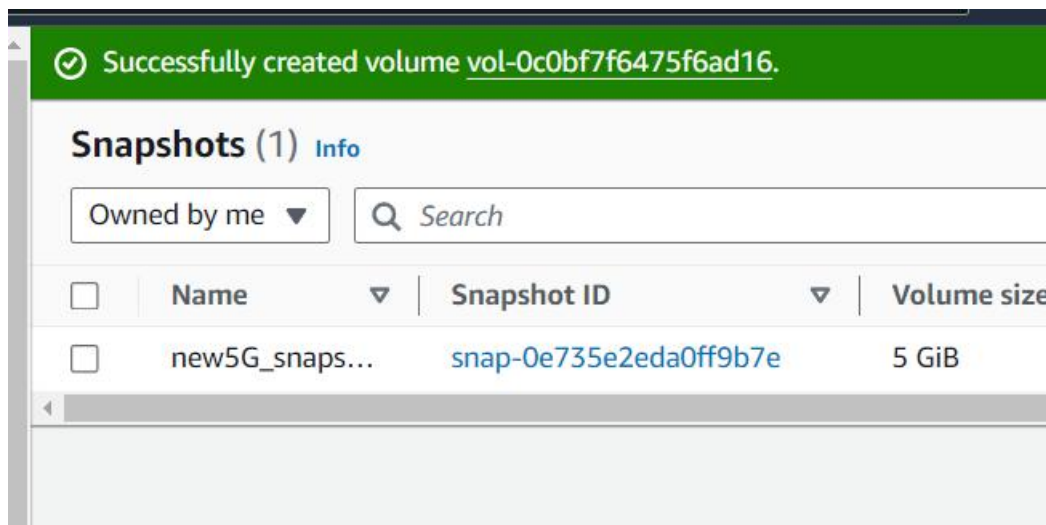## B.C.A. TY (CCSA)
Subject : Infrastructure Orchestration (P)

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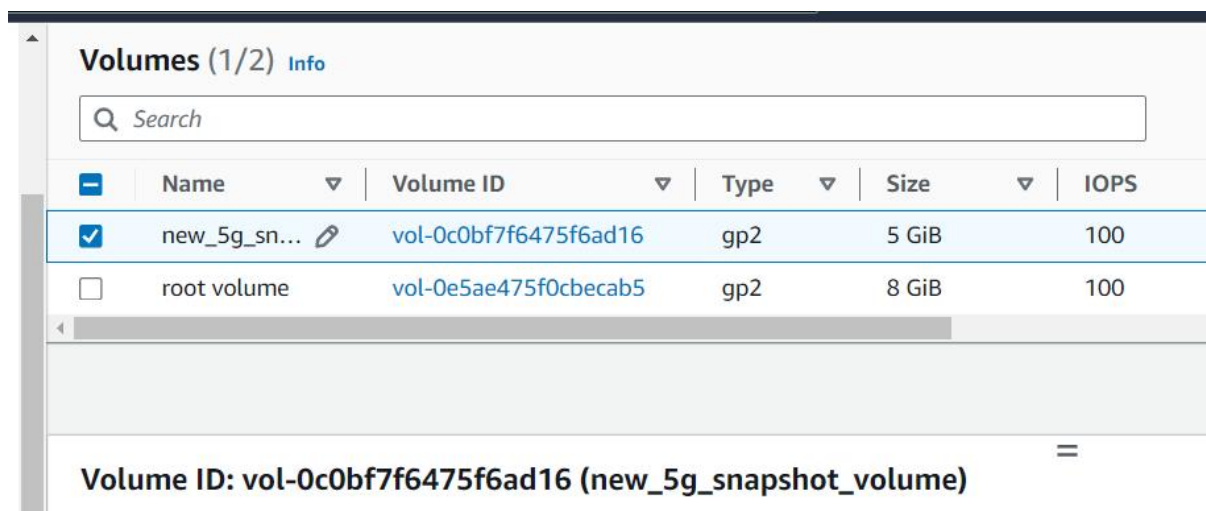
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Now manually delete the new volume and we will restore it using snapshot.

Now create volume from snapshot----

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New volume created---

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Attach volume again to the instance---

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```
Disk identifier: 0xe5d49732

Device     Boot Start      End  Sectors Size Id Type
/dev/xvdf1       2048 10485759 10483712   5G 83 Linu
root@ip-172-31-3-118:~#
```

i-0bd1d53033b2436e5 (EBSinstance-1024)

PublicIPs: 15.207.98.252   PrivateIPs: 172.31.3.118

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# df -h
Filesystem     Size  Used Avail Use% Mounted on
/dev/root      7.6G  1.9G  5.8G  25% /
tmpfs          479M     0  479M   0% /dev/shm
tmpfs          192M  888K  191M   1% /run
tmpfs          5.0M     0  5.0M   0% /run/lock
/dev/xvda15    105M  6.1M   99M   6% /boot/efi
tmpfs           96M  4.0K   96M   1% /run/user/1000
root@ip-172-31-3-118:~#
```

i-0bd1d53033b2436e5 (EBSinstance 1024)

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# ls -l /var/www/html/assets/images/
total 0
root@ip-172-31-3-118:~#
```

i-0bd1d53033b2436e5 (EBSinstance 1024)

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```
total 0
root@ip-172-31-3-118:~# mount /dev/xvdf1 /var/www/html/assets/images/
root@ip-172-31-3-118:~#
```

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       7.6G  1.9G  5.8G  25% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  888K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M  4.0K   96M   1% /run/user/1000
/dev/xvdf1      4.9G  4.7M  4.6G   1% /var/www/html/assets/images
root@ip-172-31-3-118:~#
```

```
root@ip-172-31-3-118:~#
root@ip-172-31-3-118:~# ls -l /var/www/html/assets/images/
total 76
drwxr-xr-x 7 root root  4096 May 24  2018 assets
drwxr-xr-x 2 root root  4096 May 24  2018 brand
drwxr-xr-x 2 root root  4096 May 24  2018 clients
drwxr-xr-x 2 root root  4096 May 26  2018 featured-cars
-rw-r--r-- 1 root root 30896 Jun  5  2018 index.html
drwx------ 2 root root 16384 Nov  5 16:40 lost+found
drwxr-xr-x 2 root root  4096 May 26  2018 new-cars-model
-rw-r--r-- 1 root root   889 Jun 13  2018 readme.txt
drwxr-xr-x 2 root root  4096 May 26  2018 welcome-hero
root@ip-172-31-3-118:~#
```

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Delete---

Delete---

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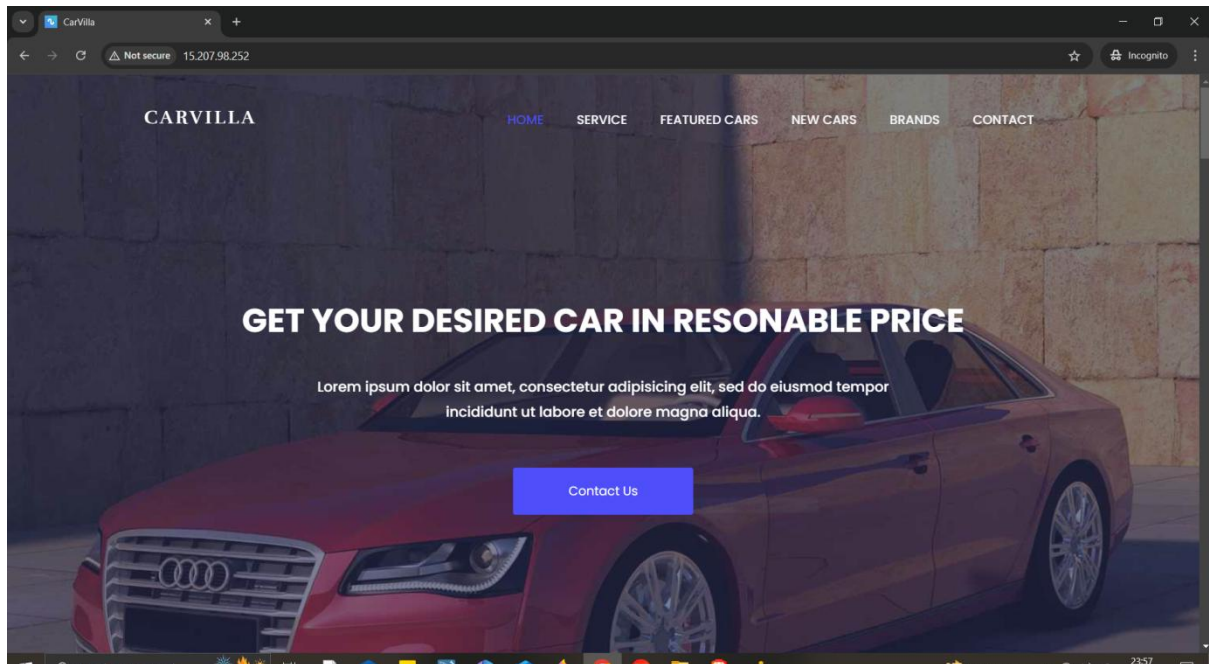## B.C.A. TY (CCSA)
Subject : Infrastructure Orchestration (P)

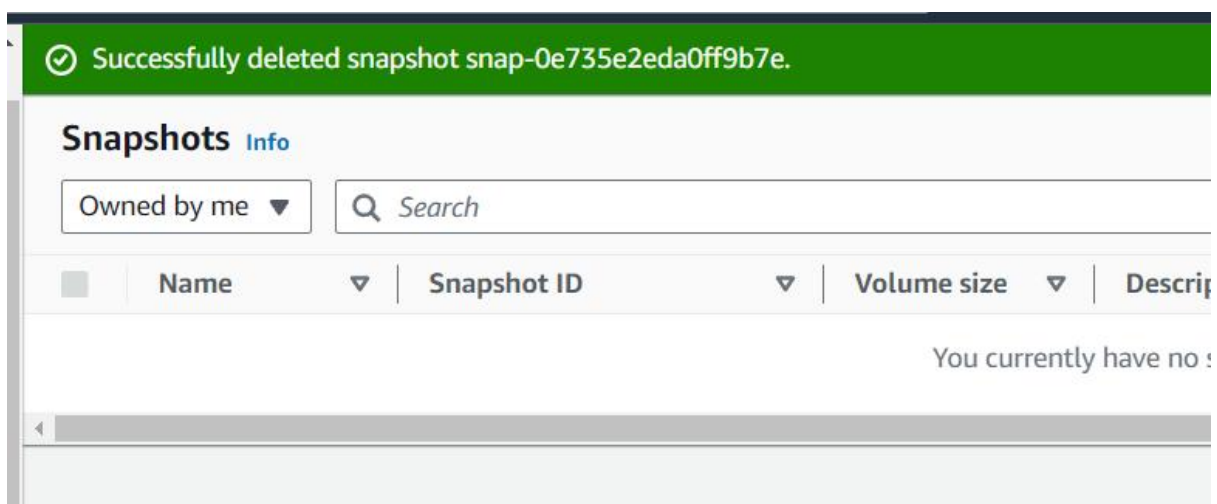**Name of the Student:**   Shrushti Krishna shrivastav   **PRN:**   20220801024

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