

## COS20019, Week 3 Lab

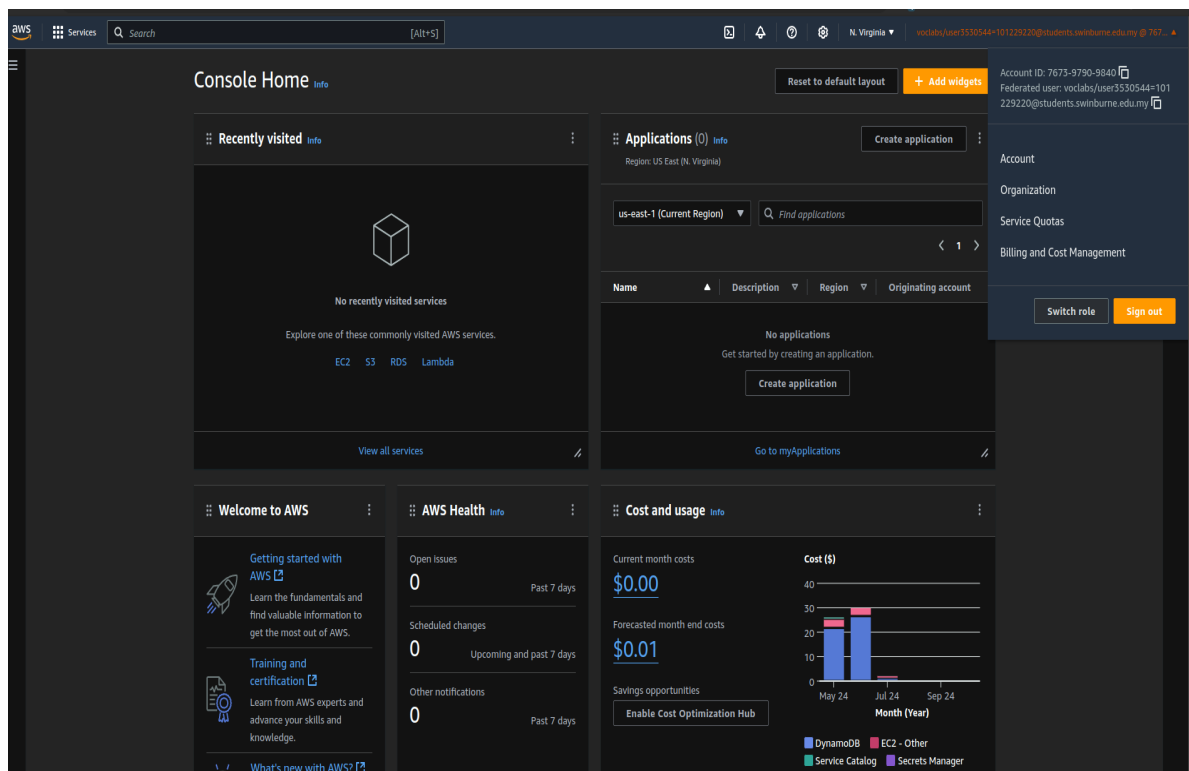
Please fill in the information below and paste screenshots in the appropriate section. You may add more sections if required.

**Student Name: Abdulswamad Rama Salim**

**Student ID: 101229220**

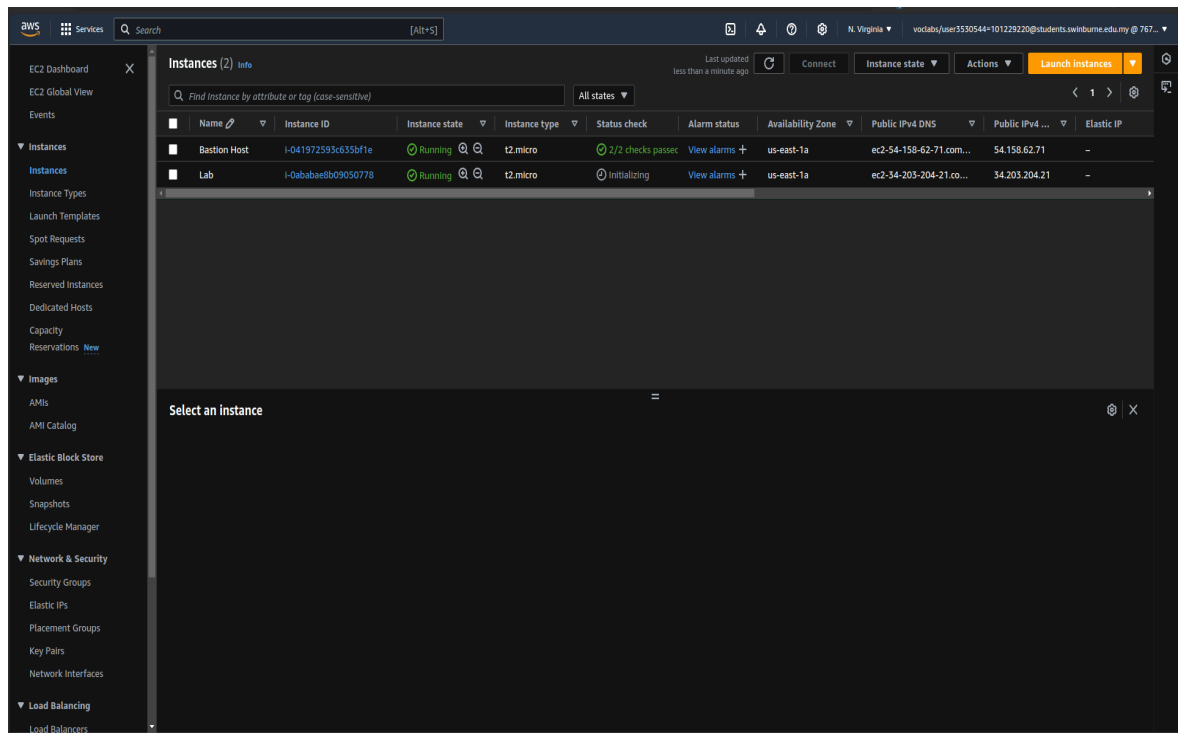
### Working with EBS

Paste screenshot of the **AWS Management Console** showing your User Account details (example shown below). Ensure that your bother screenshots show the menu bar (does not need to be expanded).

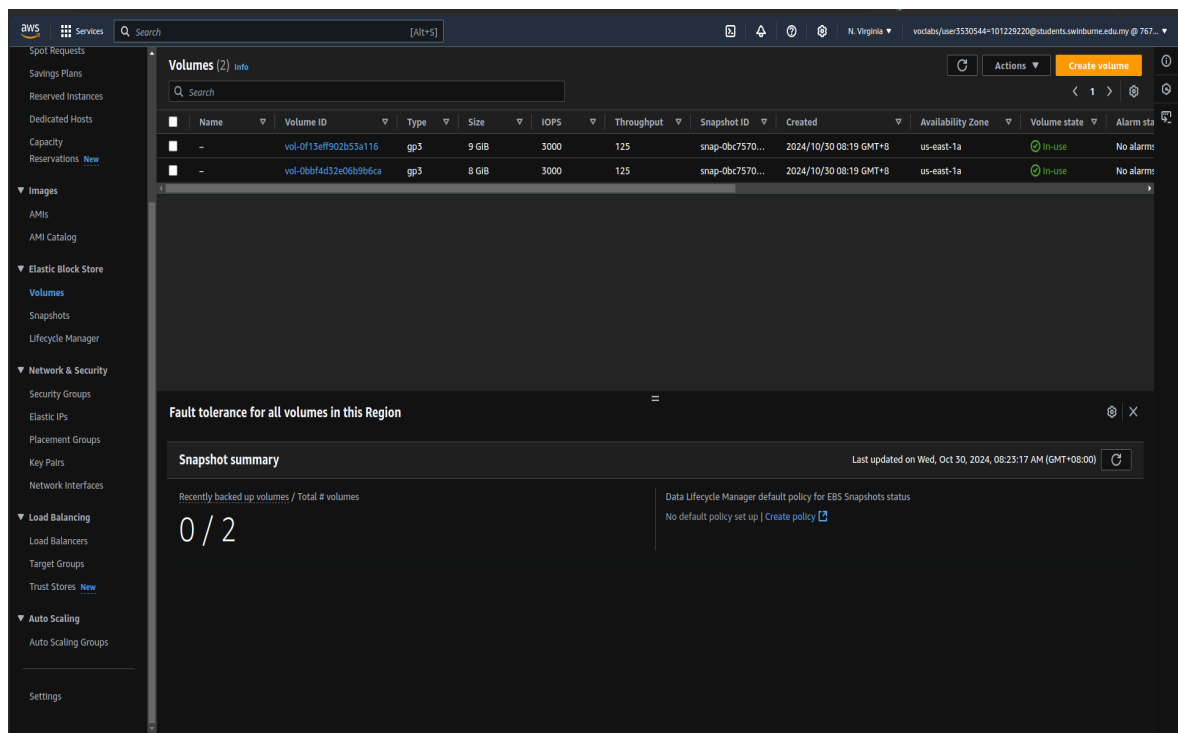


## Task 1: Create a New EBS Volume

1. Paste screenshot(s) of the **Instances** screen



2. Paste screenshot(s) of the **Volumes** screen



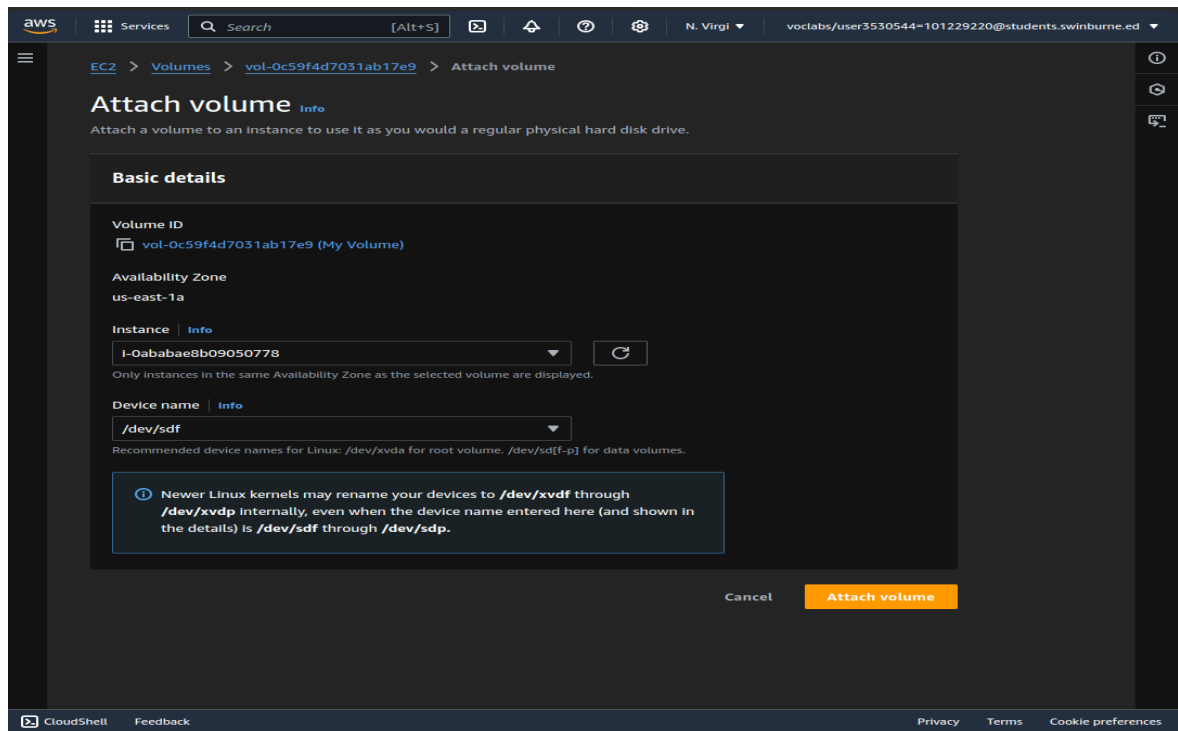
3. Paste screenshot(s) of the **Create Volume** screen (after entering / choosing the appropriate settings)

The screenshot shows the AWS Management Console 'Create volume' page. The breadcrumb navigation is 'EC2 > Volumes > Create volume'. The page title is 'Create volume' with an 'Info' link. Below the title is a subtitle: 'Create an Amazon EBS volume to attach to any EC2 Instance in the same Availability Zone.' The 'Volume settings' section contains the following fields: 'Volume type' (General Purpose SSD (gp2)), 'Size (GiB)' (1), 'IOPS' (100 / 3000), 'Throughput (MiB/s)' (Not applicable), 'Availability Zone' (us-east-1a), 'Snapshot ID - optional' (Don't create volume from a snapshot), and 'Encryption' (checked, Encrypt this volume). At the bottom of this section is a 'Tags - optional' section with an 'Info' link. The footer includes 'CloudShell', 'Feedback', 'Privacy', 'Terms', and 'Cookie preferences'.

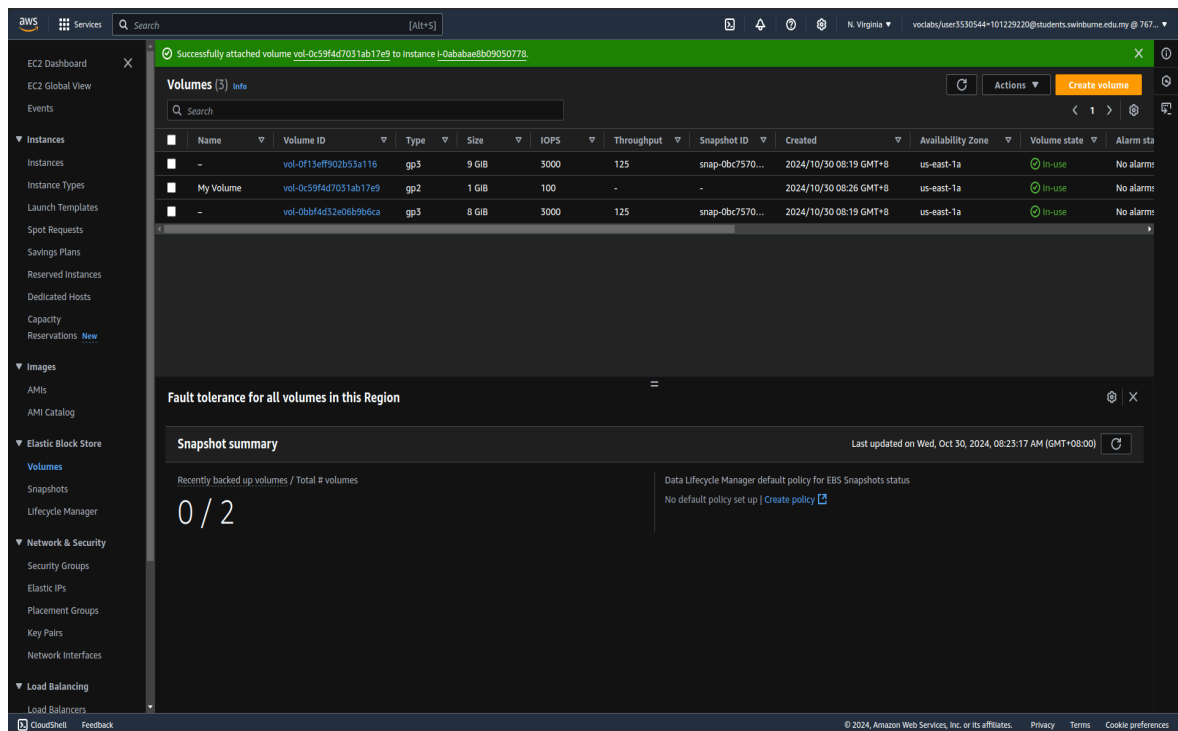
This screenshot shows the bottom portion of the 'Create volume' page. The 'Tags - optional' section includes an 'Info' link and a description: 'A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.' Below this is a table with two columns: 'Key' and 'Value - optional'. The first row contains 'Name' as the key and 'My Volume' as the value, with a 'Remove' button. An 'Add tag' button is below the table, with a note 'You can add 49 more tags.' The 'Snapshot summary' section has a 'Refresh' icon and a description: 'Click refresh to view backup information. The volume type that you select and the tags that you assign determine whether the volume will be backed up by any Data Lifecycle Manager policies.' At the bottom right are 'Cancel' and 'Create volume' buttons. The footer is identical to the first screenshot.

## Task 2: Attach the Volume to an Instance

4. Paste screenshot(s) of the **Attach Volume** screen (after entering / choosing the appropriate settings)



5. Paste screenshot(s) of the **Volumes** screen (after attaching the volume)



## Task 4: Create and Configure Your File System

6. Paste screenshot(s) of the **Linux command line** after running the commands

The screenshot shows an AWS CloudShell terminal window with the following content:

```
aws Services Search [Alt+S] N. Virgi voclabs/user3530544=101229220@students.swinburne.ed
```

**Keyboard shortcut** Close permanently  
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.

```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-10-1-11-125 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M 452K  190M   1% /run
/dev/xvda1      8.0G  1.6G   6.4G  20% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128    10M  1.3M   8.7M  13% /boot/efi
tmpfs           95M   0   95M   0% /run/user/1000
[ec2-user@ip-10-1-11-125 ~]$ sudo mkfs -t ext3 /dev/sdf
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 262144 4k blocks and 65536 inodes
Filesystem UUID: c644ab2e-60fb-43c7-8b74-370301438d00
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

[ec2-user@ip-10-1-11-125 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-125 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-125 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-125 ~]$ cat /etc/fstab
#
UUID=7b395683-8f97-49be-bc51-d7b52020feb2 / xfs defaults,noatime 1 1
UUID=53F8-484B /boot/efi vfat defaults,noatime,uid=0,gid=0,umask=0077,shortname=winnt,x-systemd.automount 0 2
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-125 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M 452K  190M   1% /run
/dev/xvda1      8.0G  1.6G   6.4G  20% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128    10M  1.3M   8.7M  13% /boot/efi
tmpfs           95M   0   95M   0% /run/user/1000
/dev/xvdf       975M  60K  924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-125 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-125 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-125 ~]$
```

**i-0ababae8b09050778 (Lab)**

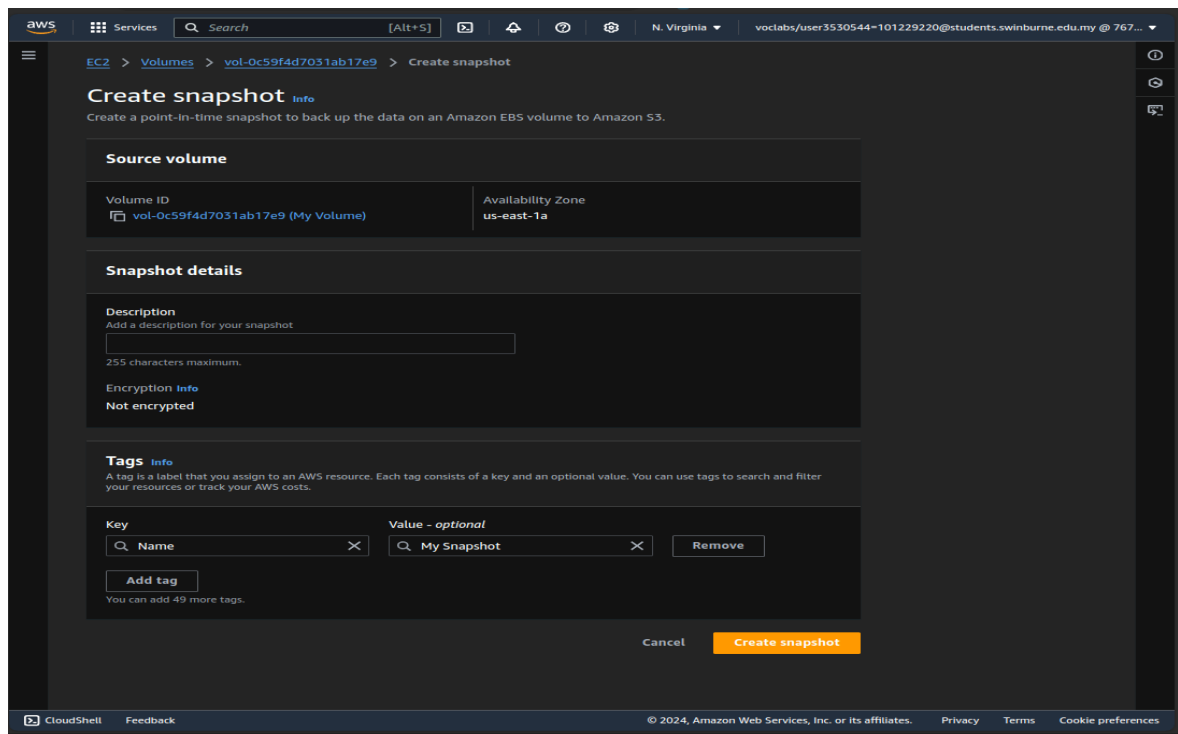
Public IPs: 34.203.204.21 Private IPs: 10.1.11.125

CloudShell Feedback Privacy Terms Cookie preferences

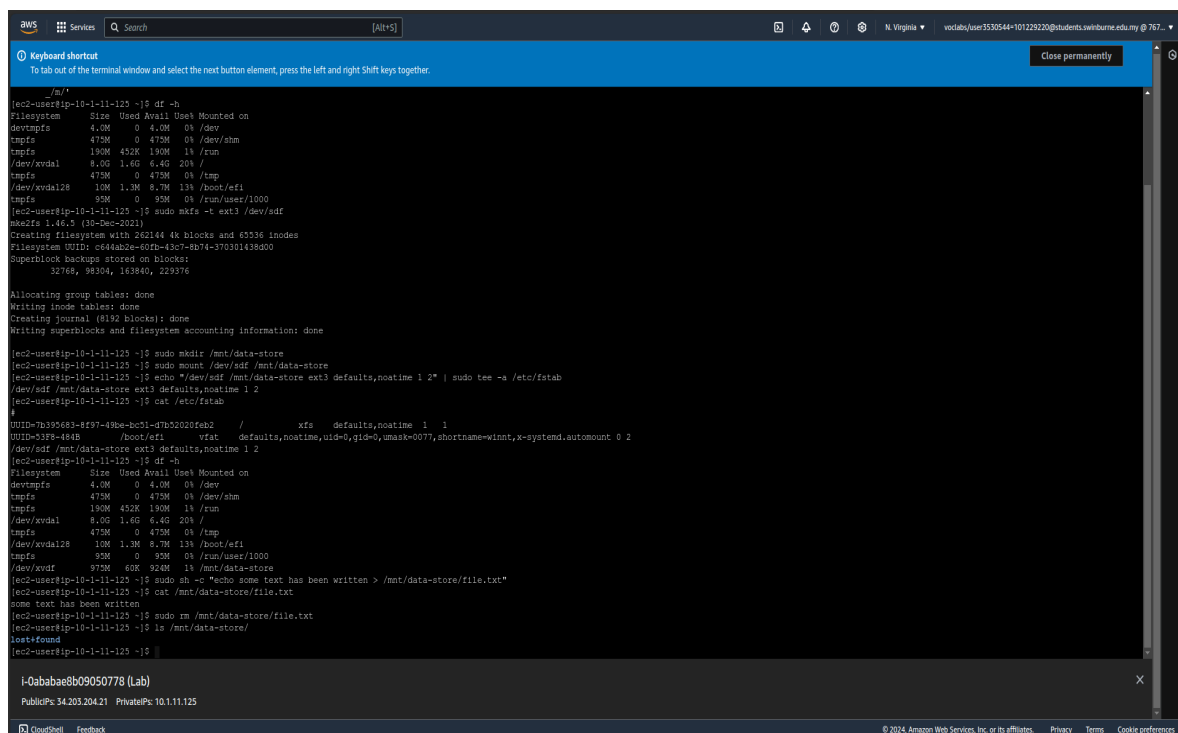
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## Task 5: Create an Amazon EBS Snapshot

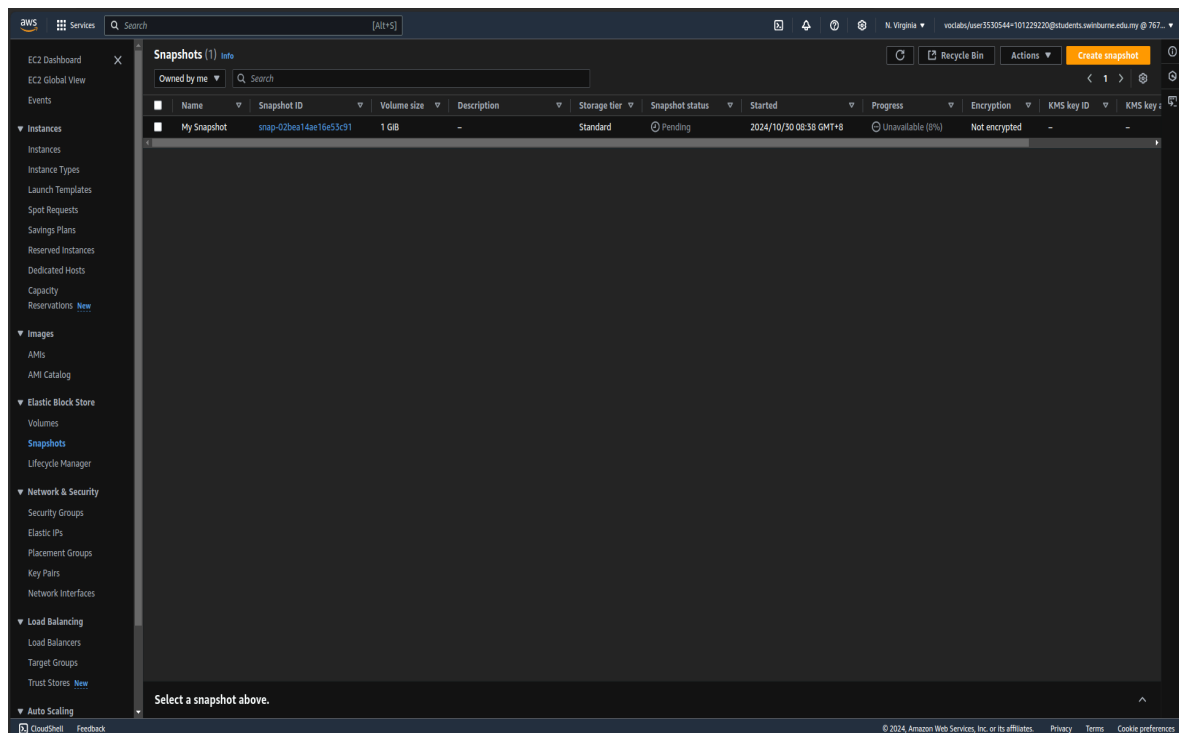
7. Paste screenshot(s) of the **Create Snapshot** screen (after entering / choosing the appropriate settings)



8. Paste screenshot(s) of the **Linux command line** after running the commands

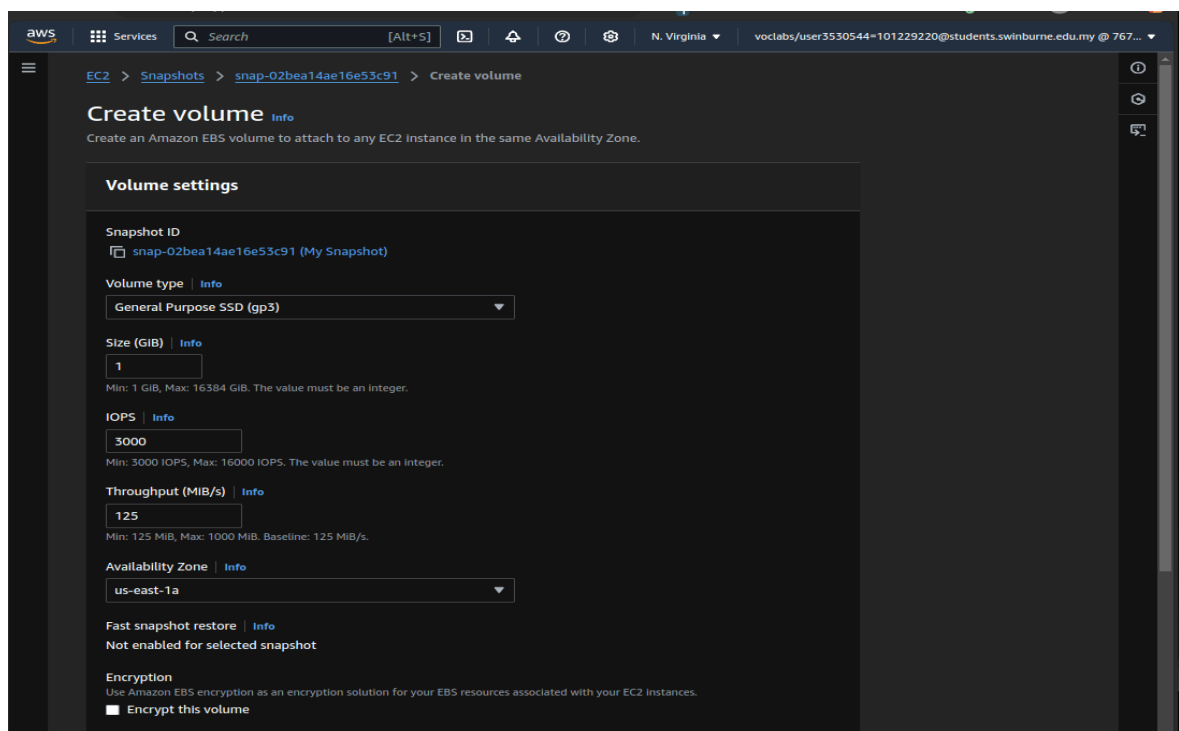


9. Paste screenshot(s) of the **Snapshots** screen



Task 6: Restore the Amazon EBS Snapshot

10. Paste screenshot(s) of the **Create Volume** screen (after entering / choosing the appropriate settings)



Tags - optional [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key

Value - optional

You can add 49 more tags.

Snapshot summary

The volume type that you select and the tags that you assign determine whether the volume will be backed up by any Data Lifecycle Manager policies.

CloudShell Feedback

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- Paste screenshot(s) of the **Attach volume** screen (after entering / choosing the appropriate settings)

aws

Services

Search

[Alt+S]

N. Virginia

voclabs/user3530544-101229220@students.swinburne.edu.my @ 767...

EC2 > Volumes > vol-04c426a3b469bd247 > Attach volume

Attach volume [Info](#)

Attach a volume to an Instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

vol-04c426a3b469bd247 (Restored Volume)

Availability Zone

us-east-1a

Instance [Info](#)

I-0ababae8b09050778

Only instances in the same Availability Zone as the selected volume are displayed.

Device name [Info](#)

/dev/sdg

Recommended device names for Linux: /dev/xvda for root volume. /dev/sd[f-p] for data volumes.

Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

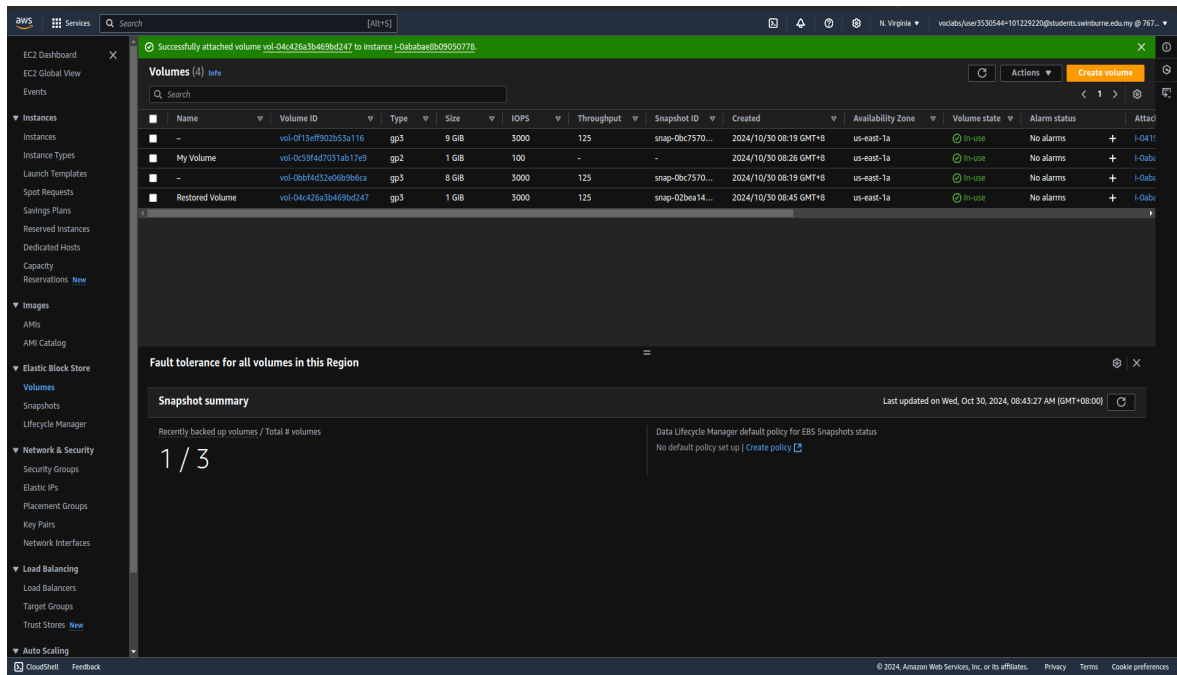
CloudShell Feedback

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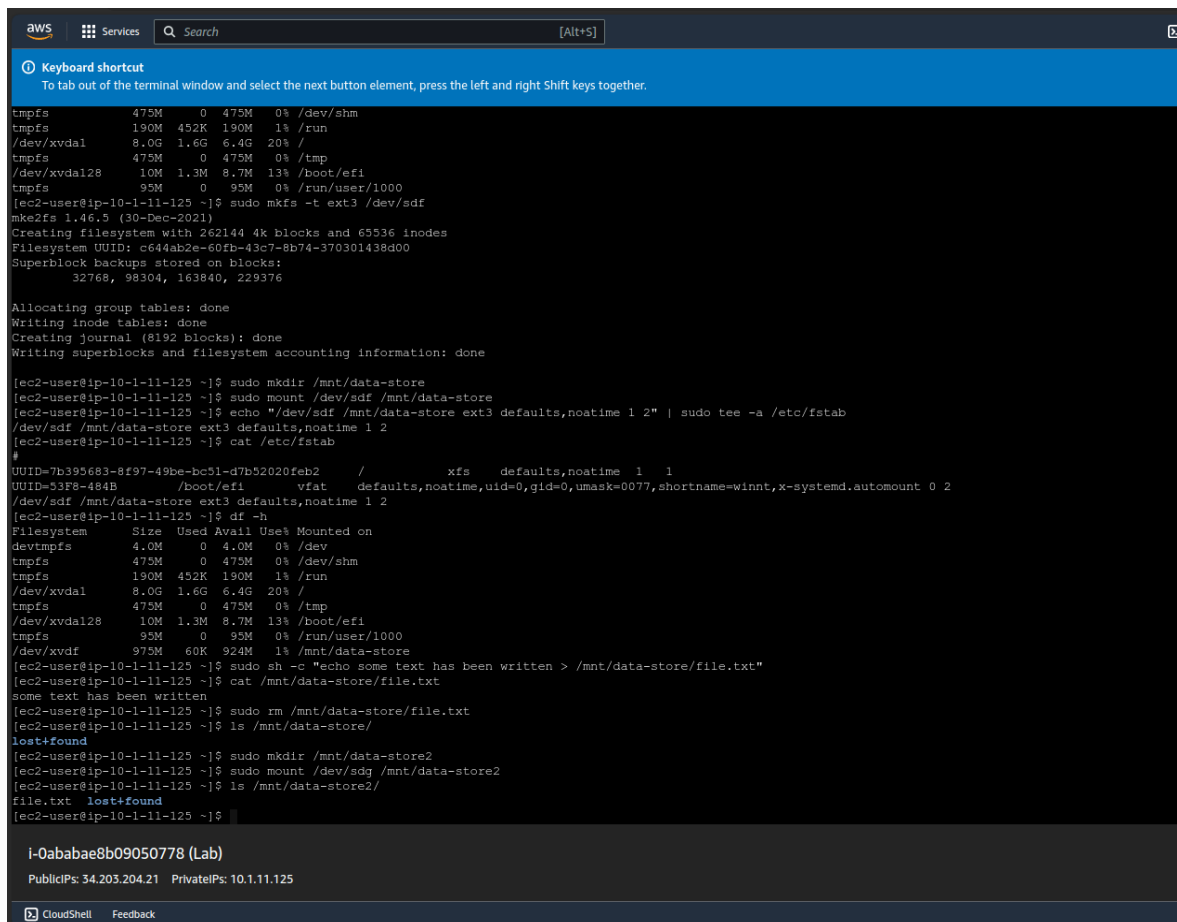
8



## 12. Paste screenshot(s) of the **Volumes** screen (after attaching the volume)



## 13. Paste screenshot(s) of the **Linux command line** after running the commands



## Submission Report

Paste screenshot (s) of the **Grades** screen showing your Total score and Tasks

The screenshot displays the 'Grades' section of an AWS Lab submission report. At the top, there is a navigation bar with a clock showing 07:28, buttons for 'Start Lab' and 'End Lab', and links for 'AWS Details' and 'Details'. Below this, a tabbed interface shows 'Submit', 'Submission Report', and 'Grades', with 'Grades' being the active tab. The main content area shows a table with the total score and a list of tasks.

Total score	25/25
<hr/>	
Task 1 - Create EBS volume	5/5
<hr/>	
Task 2 - Attach volume	5/5
<hr/>	
Task 4 - Volume mounted	5/5
<hr/>	
Task 5 - Snapshot created	5/5
<hr/>	
Task 6 - Snapshot restored	5/5
<hr/>	