Lab 4

Task 1: Create a New EBS Volume

Successfully created volume vol-01ff873a23db3fd6f.												✕

Volumes (3)

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status
☐	–	vol-066ac52fba4e82517	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:50 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	–	vol-04a61bb4da1b18cdb	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:52 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	My Volume	vol-01ff873a23db3fd6f	gp2	1 GiB	100	-	-	2023/04/30 14:52 GMT-7	us-east-1a	⊘ Available	No alarms

Task 2: Attach the Volume to an Instance

Successfully attached volume vol-01ff873a23db3fd6f to instance i-0196134e300a1e215.												✕

Volumes (3)

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status
☐	–	vol-066ac52fba4e82517	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:50 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	–	vol-04a61bb4da1b18cdb	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:52 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	My Volume	vol-01ff873a23db3fd6f	gp2	1 GiB	100	-	-	2023/04/30 14:52 GMT-7	us-east-1a	⊘ In-use	No alarms

Task 3: Connect to Your Amazon EC2 Instance

Task 4: Create and Configure Your File System
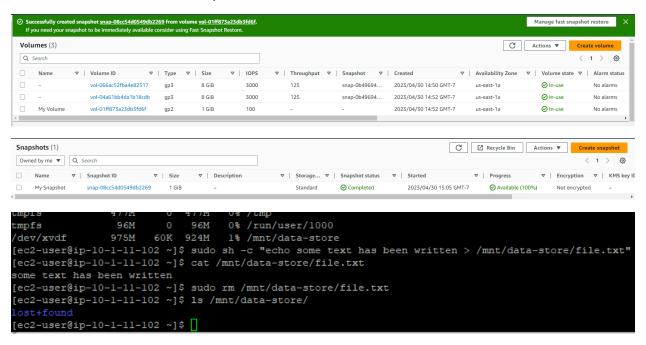
```
ec2-user@ip-10-1-11-102:~                                              —    □    ✕

Authenticating with public key "imported-openssh-key"
      #_
   ~\_  ####_           Amazon Linux 2023
 ~~  \_#####\
  ~~     \###|
   ~~     \#/ ___       https://aws.amazon.com/linux/amazon-linux-2023
    ~~    V~' '->
     ~~~        /
      ~~._.   _/
        _/ _/
       _/m/'
[ec2-user@ip-10-1-11-102 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M     0  4.0M   0% /dev
tmpfs           477M     0  477M   0% /dev/shm
tmpfs           191M  2.8M  188M   2% /run
/dev/xvda1      8.0G  1.5G  6.5G  19% /
tmpfs           477M     0  477M   0% /tmp
tmpfs            96M     0   96M   0% /run/user/1000
[ec2-user@ip-10-1-11-102 ~]$ sudo mkfs -t ext3 /dev/sdf
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 262144 4k blocks and 65536 inodes
Filesystem UUID: f1b5761e-16f2-4657-a140-125034196539
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-10-1-11-102 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-102 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-102 ~]$ cat /etc/fstab
#
UUID=d0c265c4-6ea1-4060-b815-520e1c2aae05    /        xfs    defaults,noatim
e 1   1
UUID=606C-CF35        /boot/efi      vfat    defaults,noatime,uid=0,gid=0,umask
=0077,shortname=winnt,x-systemd.automount 0 2
[ec2-user@ip-10-1-11-102 ~]$ df =h
df: '=h': No such file or directory
[ec2-user@ip-10-1-11-102 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M     0  4.0M   0% /dev
tmpfs           477M     0  477M   0% /dev/shm
tmpfs           191M  2.8M  188M   2% /run
/dev/xvda1      8.0G  1.5G  6.5G  19% /
tmpfs           477M     0  477M   0% /tmp
tmpfs            96M     0   96M   0% /run/user/1000
/dev/xvdf       975M   60K  924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-102 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-102 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-102 ~]$
```
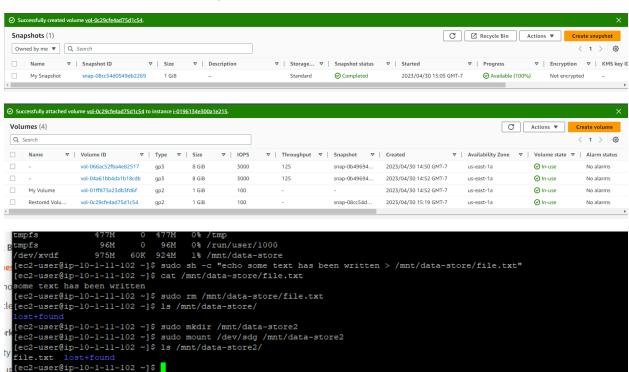
Task 5: Create an Amazon EBS Snapshot

⊘ Successfully created snapshot snap-08cc54d0549db2269 from volume vol-01ff873a23db3fd6f.
If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore   ✕

Volumes (3)   ↻   Actions ▼   **Create volume**

🔍 Search   ‹ 1 › ⚙

☐	Name ▽	Volume ID ▽	Type ▽	Size ▽	IOPS ▽	Throughput ▽	Snapshot ▽	Created ▽	Availability Zone ▽	Volume state ▽	Alarm status
☐	–	vol-066ac52fba4e82517	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:50 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	–	vol-04a61bb4da1b18cdb	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:52 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	My Volume	vol-01ff873a23db3fd6f	gp2	1 GiB	100	–	–	2023/04/30 14:52 GMT-7	us-east-1a	⊘ In-use	No alarms

Snapshots (1)   ↻   ⧉ Recycle Bin   Actions ▼   **Create snapshot**

Owned by me ▼   🔍 Search   ‹ 1 › ⚙

☐	Name ▽	Snapshot ID ▽	Size ▽	Description ▽	Storage... ▽	Snapshot status ▽	Started ▽	Progress ▽	Encryption ▽	KMS key IL
☐	My Snapshot	snap-08cc54d0549db2269	1 GiB	–	Standard	⊘ Completed	2023/04/30 15:05 GMT-7	⊘ Available (100%)	Not encrypted	–

```
tmpfs           477M     0    477M    0% /tmp
tmpfs            96M     0     96M    0% /run/user/1000
/dev/xvdf       975M    60K   924M    1% /mnt/data-store
[ec2-user@ip-10-1-11-102 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-102 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-102 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-10-1-11-102 ~]$ ls /mnt/data-store/
lost+found
[ec2-user@ip-10-1-11-102 ~]$ []
```

Task 6: Restore the Amazon EBS Snapshot

⊘ Successfully created volume vol-0c29cfe4ad75d1c54.   ✕

Snapshots (1)   ↻   ⧉ Recycle Bin   Actions ▼   **Create snapshot**

Owned by me ▼   🔍 Search   ‹ 1 › ⚙

☐	Name ▽	Snapshot ID ▽	Size ▽	Description ▽	Storage... ▽	Snapshot status ▽	Started ▽	Progress ▽	Encryption ▽	KMS key IL
☐	My Snapshot	snap-08cc54d0549db2269	1 GiB	–	Standard	⊘ Completed	2023/04/30 15:05 GMT-7	⊘ Available (100%)	Not encrypted	–

⊘ Successfully attached volume vol-0c29cfe4ad75d1c54 to instance i-0196134e300a1e215.   ✕

Volumes (4)   ↻   Actions ▼   **Create volume**

🔍 Search   ‹ 1 › ⚙

☐	Name ▽	Volume ID ▽	Type ▽	Size ▽	IOPS ▽	Throughput ▽	Snapshot ▽	Created ▽	Availability Zone ▽	Volume state ▽	Alarm status
☐	–	vol-066ac52fba4e82517	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:50 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	–	vol-04a61bb4da1b18cdb	gp3	8 GiB	3000	125	snap-0b49694...	2023/04/30 14:52 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	My Volume	vol-01ff873a23db3fd6f	gp2	1 GiB	100	–	–	2023/04/30 14:52 GMT-7	us-east-1a	⊘ In-use	No alarms
☐	Restored Volu...	vol-0c29cfe4ad75d1c54	gp2	1 GiB	100	–	snap-08cc54d...	2023/04/30 15:19 GMT-7	us-east-1a	⊘ In-use	No alarms

```
tmpfs           477M     0    477M    0% /tmp
tmpfs            96M     0     96M    0% /run/user/1000
/dev/xvdf       975M    60K   924M    1% /mnt/data-store
[ec2-user@ip-10-1-11-102 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-102 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-102 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-10-1-11-102 ~]$ ls /mnt/data-store/
lost+found
[ec2-user@ip-10-1-11-102 ~]$ sudo mkdir /mnt/data-store2
[ec2-user@ip-10-1-11-102 ~]$ sudo mount /dev/sdg /mnt/data-store2
[ec2-user@ip-10-1-11-102 ~]$ ls /mnt/data-store2/
file.txt   lost+found
[ec2-user@ip-10-1-11-102 ~]$ 
```

End Lab

Region: us-east-1
Lab ID: arn:aws:cloudformation:us-east-1:275989223821:stack/c79767a166592714031407t1w275989223821/dda735a0-e7a0-11ed-a9f2-12662ecb3025
Creation Time: 2023-04-30T14:49:21-0700
You may close this message box now. Lab resources are terminating ...