CCNP ROUTING AND SWITCHING

AWS EBS Instance

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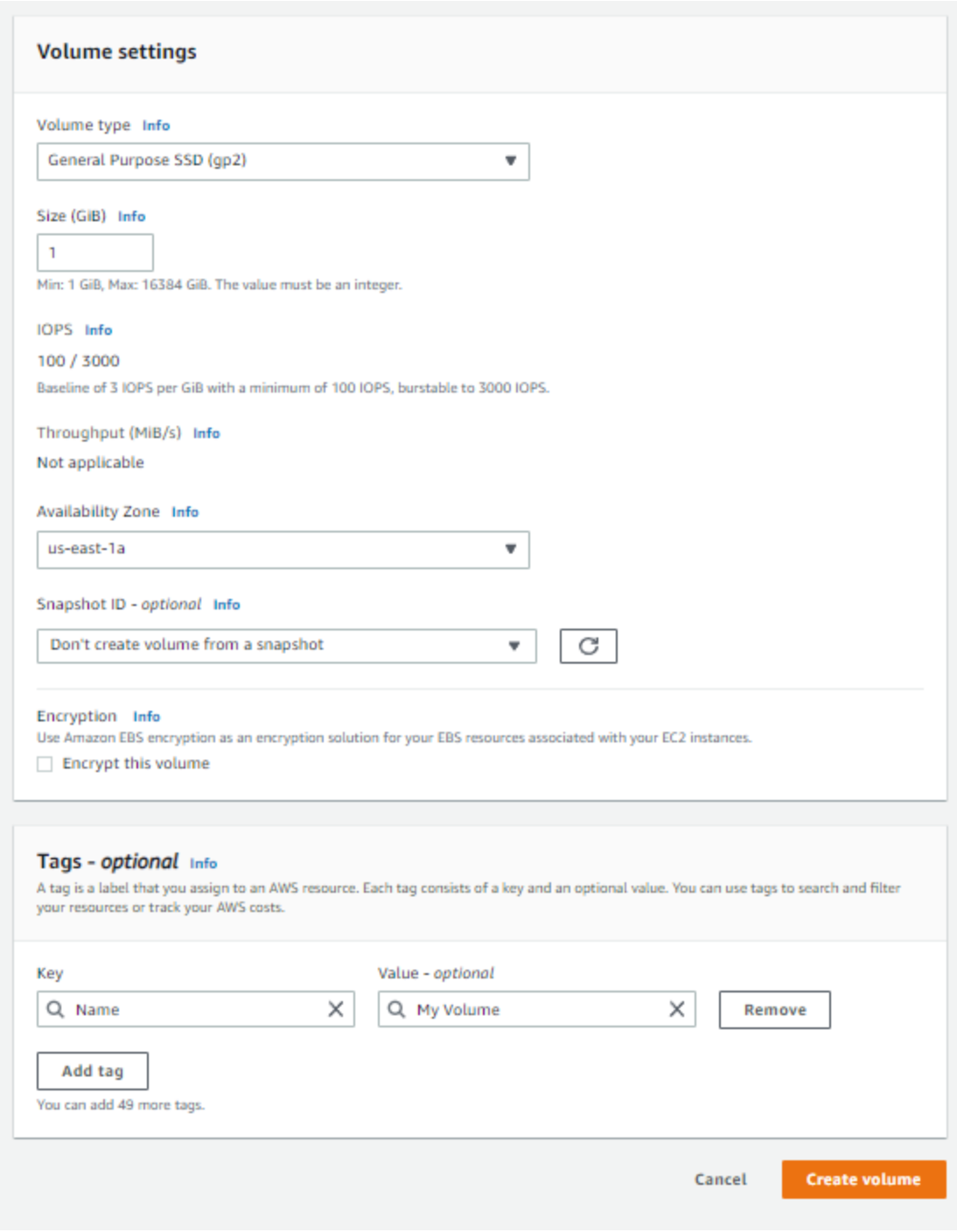
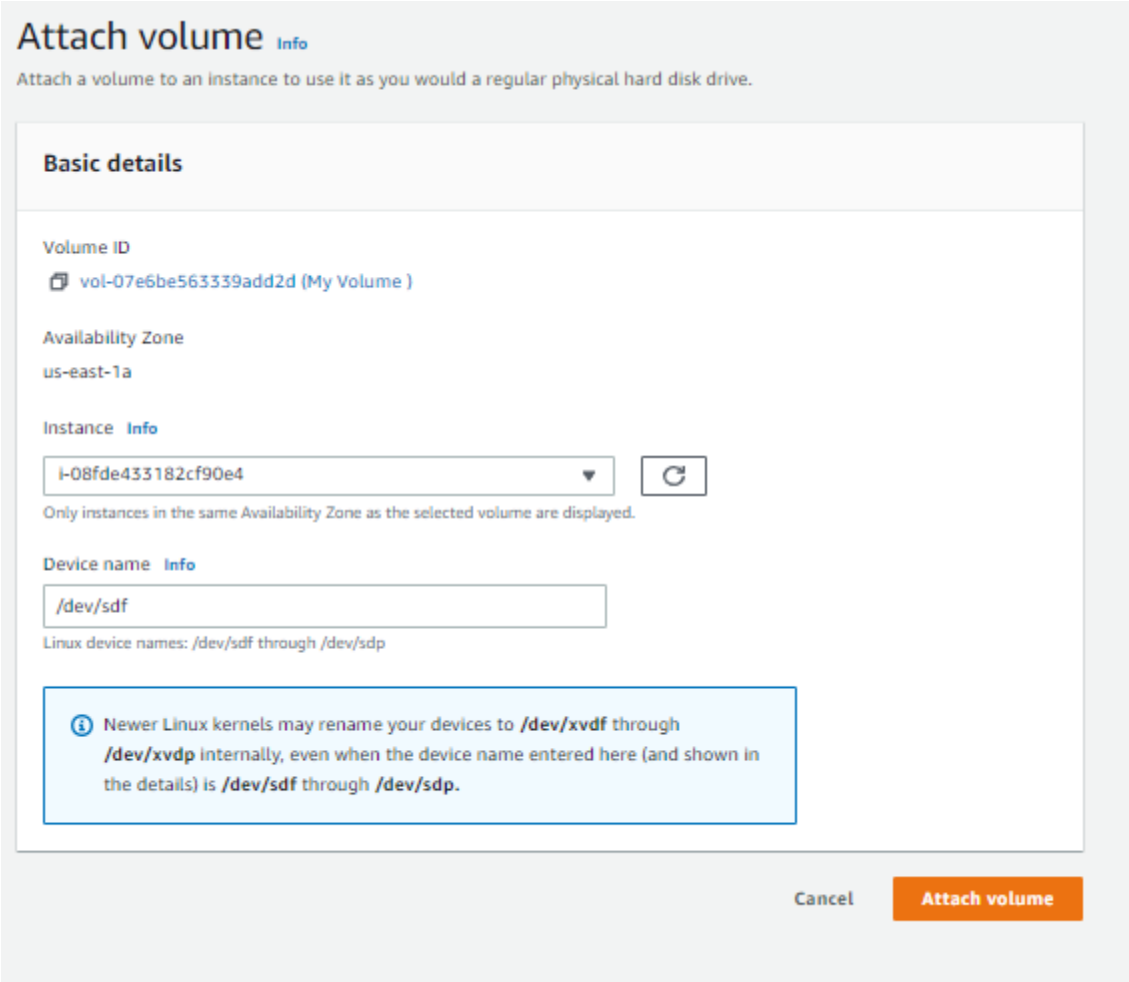
Task 1: Create a New EBS Volume

1. In the **AWS Management Console** on the top left of the screen, click the **Services** menu then **EC2**.
2. Choose **Instances** in the left navigation pane. (You should see a Lab Instance already launched)
3. Choose **Volumes** in the left navigation pane.
4. Choose Create Volume then configure:
5. 

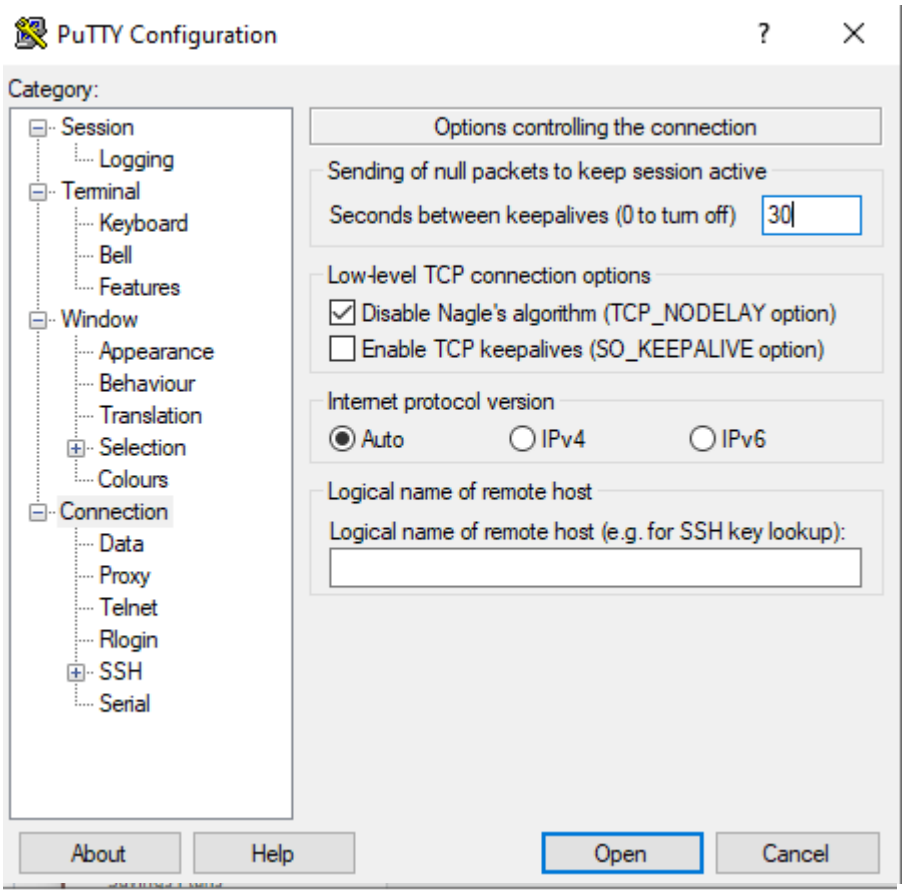
Task 2: Attach the Volume to an Instance

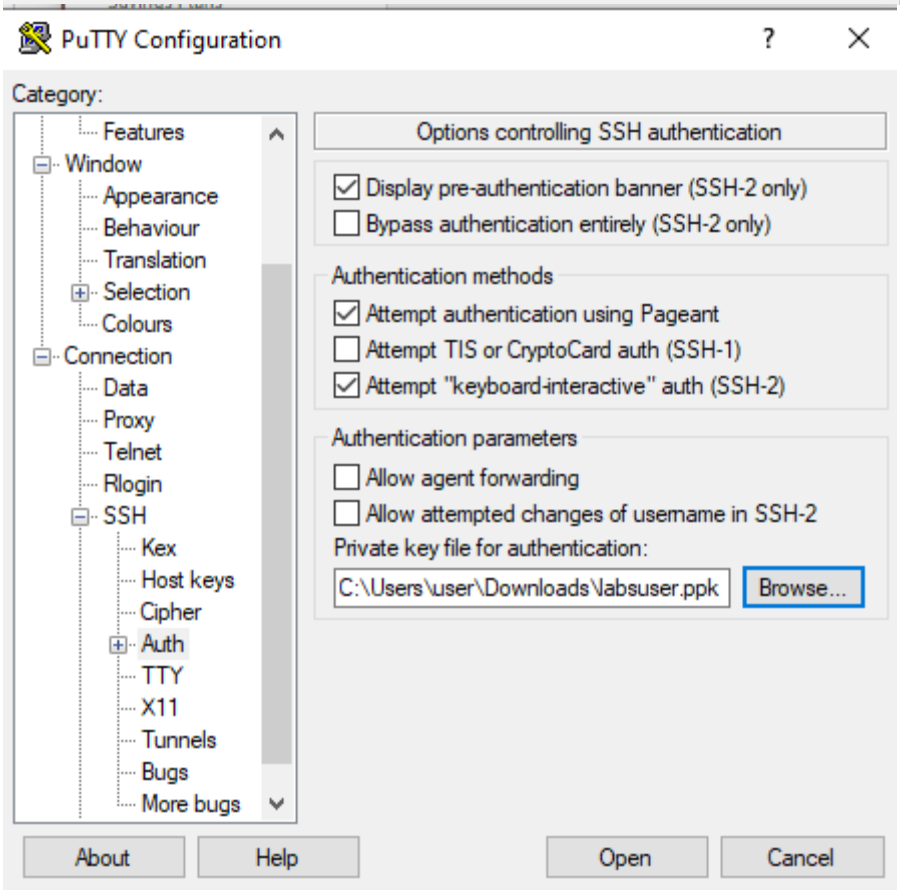
1. Select **My Volume**
2. In the **Actions** menu, choose **Attach volume**
3. Choose the **Instance** field, then select the Lab instance that appears
4. 

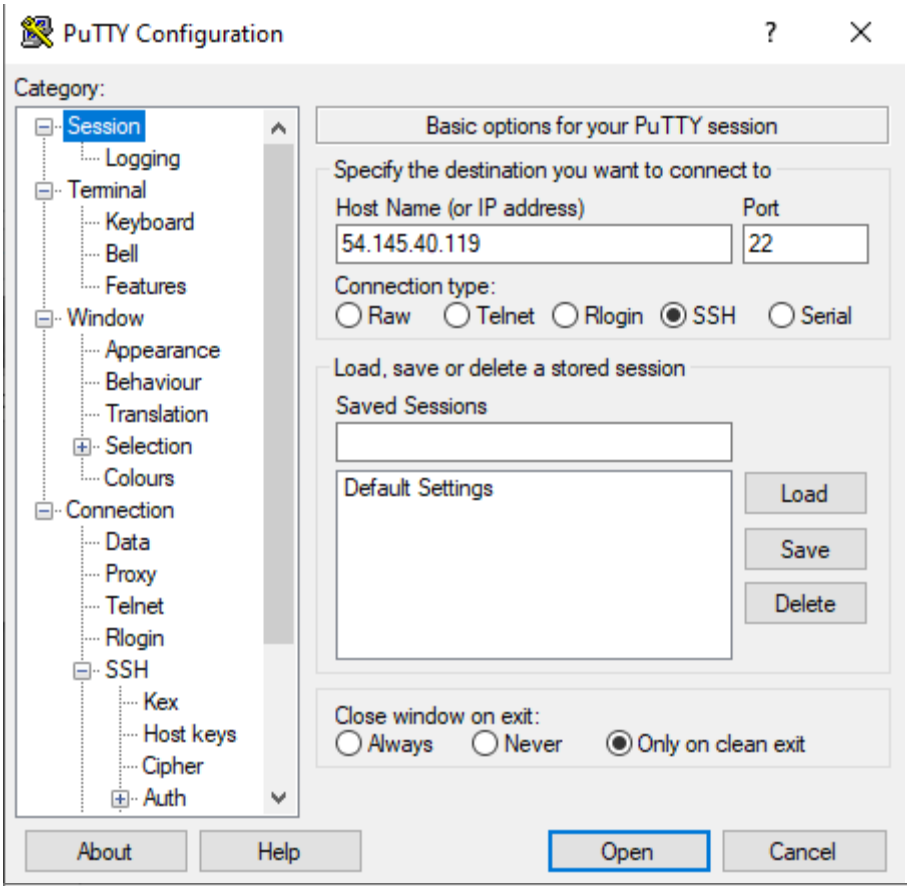
Task 3: Connect to Your Amazon EC2 Instance

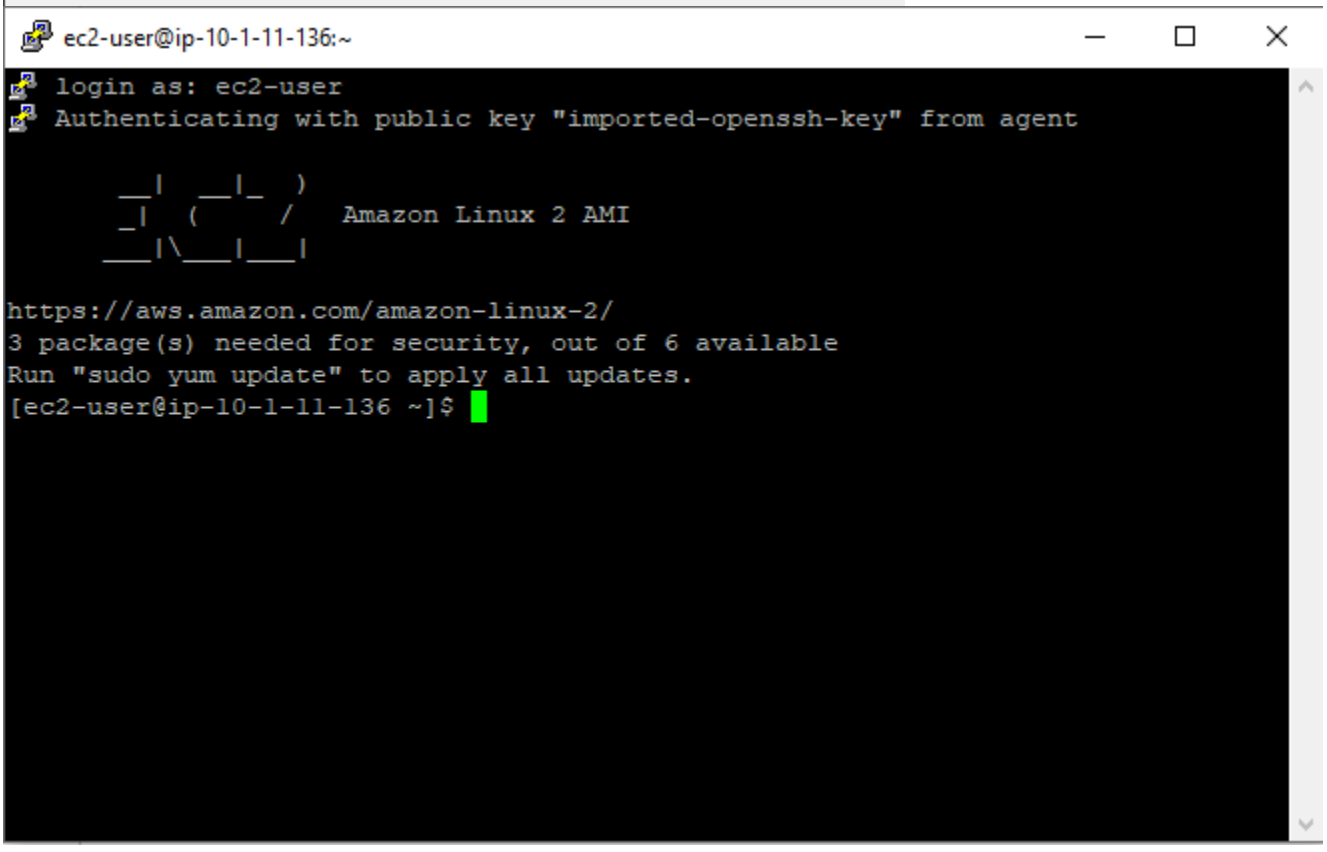
Read through the three bullet points in this step before you start to complete the actions, because you will not be able see these instructions when the Details panel is open.

- Choose the Details drop down menu above these instructions you are currently reading, and then choose Show. A Credentials window will open.
- Choose the **Download PPK** button and save the **labsuser.ppk** file. Typically your browser will save it to the Downloads directory.
- Then exit the Details panel by choosing the **X**.


PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Serial
Options controlling the connection
Sending of null packets to keep session active
Seconds between keepalives (0 to turn off)
30
Low-level TCP connection options
Disable Nagle's algorithm (TCP_NODELAY option)
Enable TCP keepalives (SO_KEEPALIVE option)
Internet protocol version
Auto
IPv4
IPv6
Logical name of remote host
Logical name of remote host (e.g. for SSH key lookup):
About
Help
Open
Cancel


PuTTY Configuration
Category:
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Host keys
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Options controlling SSH authentication
Display pre-authentication banner (SSH-2 only)
Bypass authentication entirely (SSH-2 only)
Authentication methods
Attempt authentication using Pageant
Attempt TIS or CryptoCard auth (SSH-1)
Attempt "keyboard-interactive" auth (SSH-2)
Authentication parameters
Allow agent forwarding
Allow attempted changes of username in SSH-2
Private key file for authentication:
C:\Users\user\Downloads\labsuser.ppk
Browse...
About
Help
Open
Cancel





Task 4: Create and Configure Your File System

```
[ec2-user@ip-10-1-11-136 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M     0  484M   0% /dev
tmpfs           492M     0  492M   0% /dev/shm
tmpfs           492M  460K  491M   1% /run
tmpfs           492M     0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G  6.6G  19% /
tmpfs            99M     0   99M   0% /run/user/0
tmpfs            99M     0   99M   0% /run/user/1000
[ec2-user@ip-10-1-11-136 ~]$
```

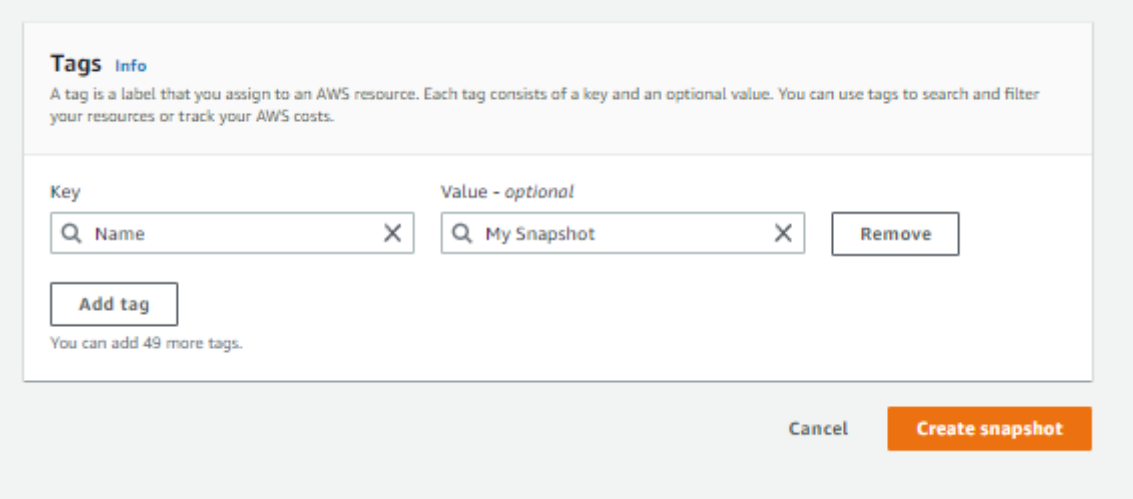
```
[ec2-user@ip-10-1-11-136 ~]$ sudo mkfs -t ext3 /dev/sdf
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
65536 inodes, 262144 blocks
13107 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=268435456
8 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
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-10-1-11-136 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-136 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-136 ~]$
[ec2-user@ip-10-1-11-136 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults  ,noat
ime 1 2" | sudo tee -a /etc/fstab
/dev/sdf /mnt/data-store ext3 defaults  ,noatime 1 2
[ec2-user@ip-10-1-11-136 ~]$ cat /etc/fstab
#
UUID=3ec1e838-cf61-4a08-8ec5-dbaeef7e5e76     /           xfs    defaults,noatim
e  1   1
/dev/sdf /mnt/data-store ext3 defaults  ,noatime 1 2
[ec2-user@ip-10-1-11-136 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M     0  484M   0% /dev
tmpfs           492M     0  492M   0% /dev/shm
tmpfs           492M  460K  491M   1% /run
tmpfs           492M     0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G  6.6G  19% /
tmpfs            99M     0   99M   0% /run/user/0
tmpfs            99M     0   99M   0% /run/user/1000
/dev/xvdf       976M  1.3M  924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-136 ~]$ sudo sh -c "echo some text has been written> /mnt/d
ata-store/file.txt"
[ec2-user@ip-10-1-11-136 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-136 ~]$
```

Task 5: Create an Amazon EBS Snapshot

1. In the AWS Management Console, choose Volumes and select My Volume
2. In the Actions menu, select Create snapshot
3. Choose Add tag then



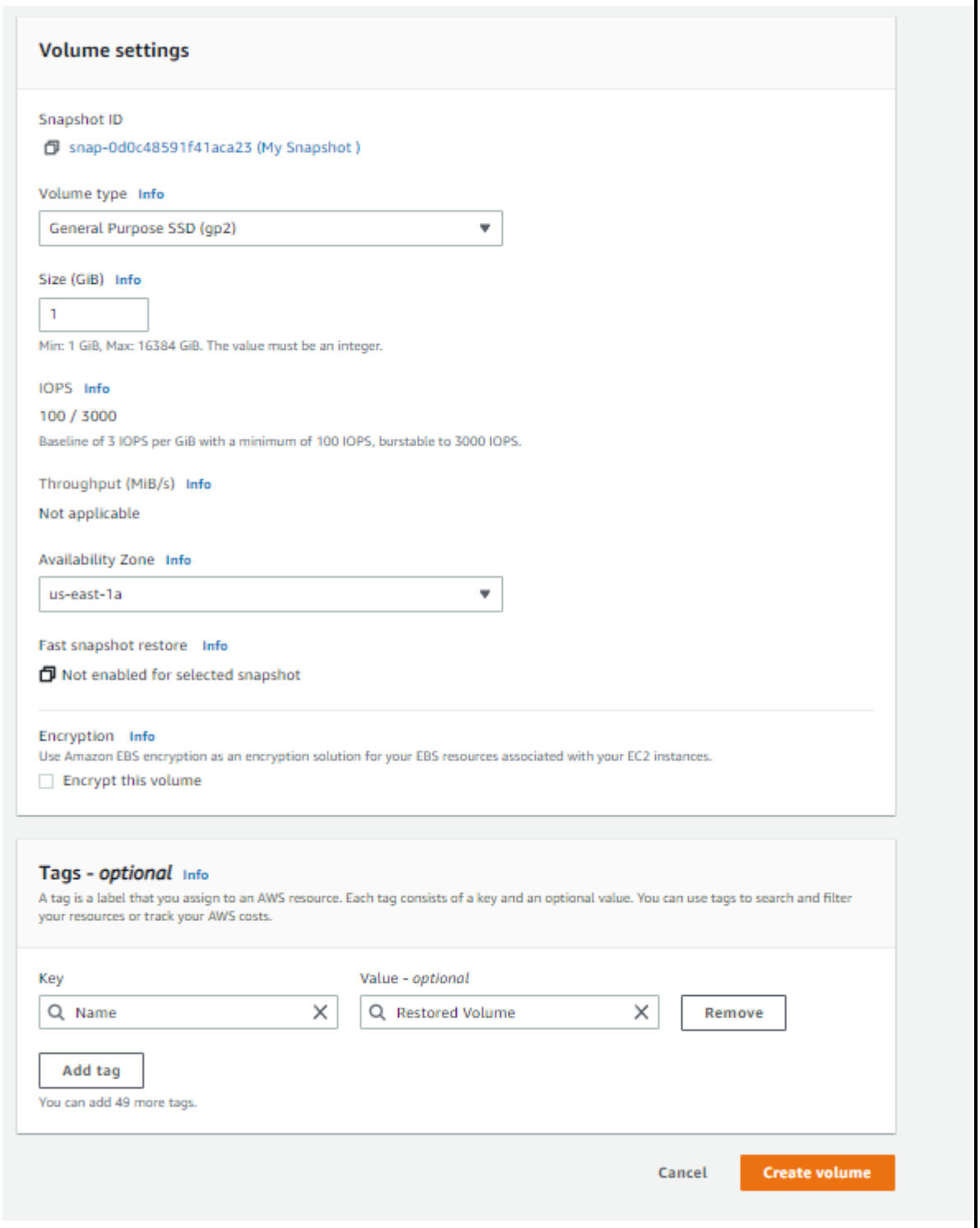
4. Left navigation pane choose Snapshots
5.

```
[ec2-user@ip-10-1-11-136 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-10-1-11-136 ~]$ ls /mnt/data-store/
lost+found
```

Task 6: Restore the Amazon EBS Snapshot

Create a Volume Using Your Snapshot

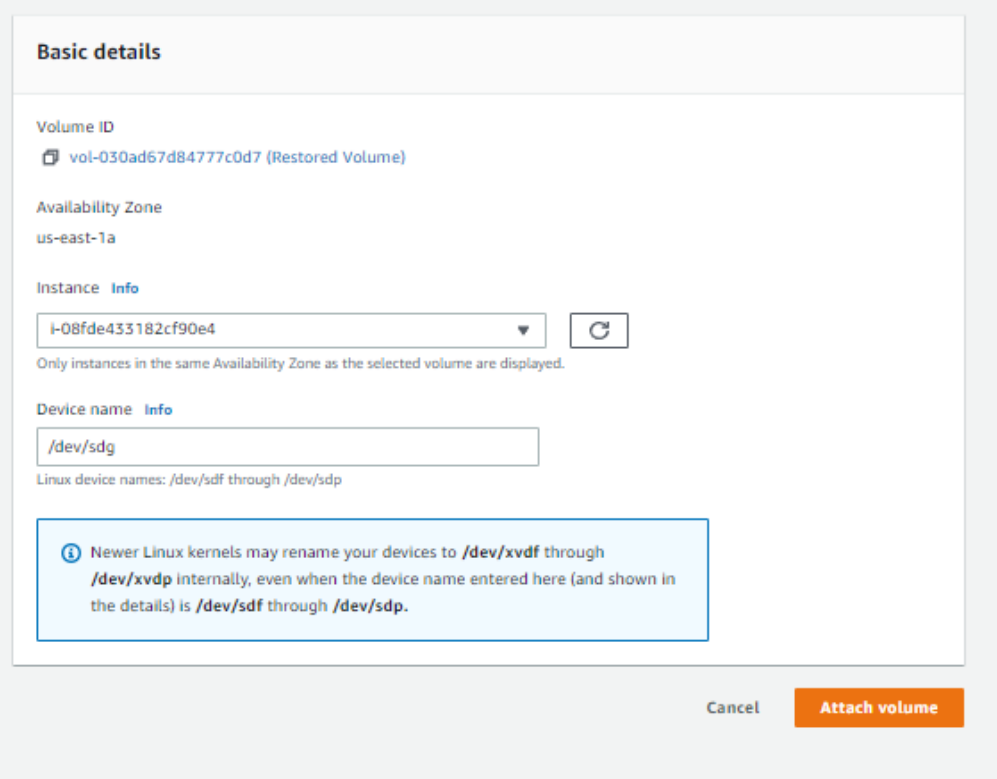
1. Select My Snapshot from the AWS Management Console
2. Select Create volume from snapshot in the Actions menu
3. Select Availability Zone



4.

5. Choose Volumes from the left navigation pane
6. Select restored volume

7.


Basic details
Volume ID
vol-030ad67d84777c0d7 (Restored Volume)
Availability Zone
us-east-1a
Instance Info
i-08fde433182cf90e4
Only instances in the same Availability Zone as the selected volume are displayed.
Device name Info
/dev/sdg
Linux device names: /dev/sdf through /dev/sdp
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.
Cancel
Attach volume