

EE4221 ACF Lab 4 – Working with EBS Checkpoints and Lab Assignments

This worksheet supplements the lab activities and provides additional checkpoints to verify your learning outcomes. Extended tasks are provided to guide students to explore more in-depth knowledge. Follow the instructions below to complete each checkpoint and explain your results in the lab report.

Part A – ACF Lab 4: Task1 to 6

Checkpoint 1:

(Task 1 to Task 4) Explain the following command line in detail (the meaning of all parts).

```
echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
```

Checkpoint 2:

(Task 5 to Task 6) Show that the device “xvdf” and “xvdg” are mounted to the path “/mnt/data-store” and “/mnt/data-store2” respectively.

- What is the size (GB) of your EBS snapshot “My Snapshot”?
- Assume that you have modified 1GB data on the EBS after the first snapshot above. Now you take another snapshot for the EBS. What will be the total billed storage size for these two snapshots? Explain your answer.

Part B – Extended Tasks

Checkpoint 3:

You can extend EBS volume no-the-fly without the need to stop the instance (i.e. no downtime). You are asked to resize the EBS root volume from 8GB to 16GB. On success, the storage available on the device “xvda1” should be 16G as shown.

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	483M	64K	483M	1%	/dev
tmpfs	493M	0	493M	0%	/dev/shm
/dev/xvda1	16G	1.1G	15G	7%	/

Explain the steps you take to expand the volume in detail. You have to provide reasons to justify why the steps are necessary. Show the result of each step accordingly.