Assignment 2:

Using EBS with EC2 Linux Server Instances.

Synopsis:

Demonstrate the creation, attaching, accessing and updating of an additional Elastic Block Store (EBS) across EC2 Linux Servers in the same Subnet as well as in the subnets (of a user created Virtual Private Network (VPC)) created in different Availability Zones (AZs) of the region.

- Launch 2 EC2 Linux server instances in different Availability Zones of same region.
- Under 'Elastic Block Store', go to volumes and create a volume by selecting 1 of the AZ used to create the EC2 instance.
- Select the new volume created, go to 'Actions' and select 'Attach Volume'. (Volume and Instance must always be in the same AZ for them to attach/connect)
- After attaching the volume, we need to connect to the instance and mount the volume to the instance.
- Now for attaching the same volume for instance created in the different AZ we need to take the backup\Snapshot of the volume and 'Create volume from Snapshot'.
- Inside the settings of 'Create volume from Snapshot' we should select the different AZ that we used to create a 2nd EC2 instance for it to attach.
- After the volume is created from the snapshot follow the same procedure to attach and mount this volume to the instance.

Linux Commands to mount and unmount the volume:

- lsblk ### list the available disks using the following command.
- file -s /dev/xvdf ### Check if the volume has any data using the following command.
- mkfs -t ext4 /dev/xvdf ### Format the volume to the ext4 filesystem using the following command.

- mkdir/newvolume ### Create a directory of your choice to mount our new ext4 volume.
- mount /dev/xvdf /newvolume/ ### Mount the volume to "newvolume" directory using the following command.
- cd /newvolume & df -h ### cd into newvolume directory and check the disk space to validate the volume mount.
- umount /dev/xvdf ### To unmount the volume.

Snapshots of the Assignment:















