**AWS Volume**

- Launch an instance from aws console in "us-east-1a" AZ.

- check volumes which volumes attached to instance.

- only root volume should be listed

**Create new Volume**

- Create a new volume in the same AZ "us-east-1" with the instance from AWS console "5 GB" for this demo.

- Attach the new volume from aws console, then list block storages again.

- Root volume and secondary volume should be listed

🡪 lsblk : Code check the storage

- Check if the attached volume is already formatted or not.

🡪 sudo file -s /dev/xvdf

-Format the new volume

🡪 sudo mkfs -t ext4 /dev/xvdf

-Create a mounting point path for new volume (volume-1)

🡪 sudo mkdir /mnt/mp1

- Mount the new volume to the mounting point path

🡪 sudo mount /dev/xvdf /mnt/mp1/

- Show the available space, on the mounting point path

🡪 df -h

- Check if there is data on it or not.

🡪 ls /mnt/mp1/

-if there is no data on it, create a new file to show persistence in later steps

🡪 cd /mnt/mp1

sudo touch hello.txt

ls

**Enlarge the new volume (volume-1) in AWS console and modify from terminal**

- modify the new volume in aws console, enlarge capacity from 5GB to 6GB .

- check if the attached volume is showing the new capacity

🡪lsblk

- show the real capacity used currently at mounting path, old capacity should be shown.

🡪 df -h

- resize the file system on the new volume to cover all available space.

🡪 sudo resize2fs /dev/xvdf

- show the real capacity used currently at mounting path, new capacity should reflect the modified volume size.

🡪 df -h

- show that the data still persists on the newly enlarged volume.

🡪 ls /mnt/mp1/