## Assignment 4 – Disk Partitioning, File System Creation, Management and Mounting

Launch virtual machine in the cloud, attach 20 GB EBS volume

**Important Note:**- Do not try partition, filesystem creation on your local desktop or laptop instead use virtual machine to do practice. These operations are destructive, chances of system crash. Work carefully. Create partition on newly attached disk as per below instructions –

- a) Create 2 primary partitions of 3 GB each
- b) Create 2 logical partitions of 6 GB each
- c) Format all 4 partitions and create ext4 filesystem on that
- d) Create 4 folders inside root (/) folder name it as Data1, Data2, Data3, Data4
- e) Mount all formated partitions on the respective folders
- f) Create empty file inside each folders of size 2 GB, 2GB, 4 GB and 4 GB respectively using command dd "convert and copy a file"
- g) Go inside /Data1 and run command while(true); do sleep 5s; done, do ctrl-z h) Check disk utilization of each mount point i) Unmount all partitions /Data1, /Data2, /Data3 and /Data4 Note:-All partitions should be automatically mounted post reboot.

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Activities  Terminal Sep15 17:16

root@server/—fdsk/dev/sdb

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Valcome to fdisk (util-linux 2.37.4).
Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): n

Partition type

p primary (0 primary, 0 extended, 4 free)

e extended (container for logical partitions)

Select (default p): p

Partition number (1-4, default 1):
First sector (2048-41943039, default 2048):
Last sector, +/-sectors or +/-size(K,M,G,T,P) (2048-41943039, default 41943039): +3G

Created a new partition 1 of type 'Linux' and of size 3 GiB.

Command (m for help): n

Partition type

p primary (1 primary, 0 extended, 3 free)

e extended (container for logical partitions)

Select (default p): p

Partition number (2-4, default 2):
First sector (6293504-41943039, default 6293504):
Last sector, +/-sectors or +/-size(K,M,G,T,P) (6293504-41943039, default 41943039): +3G

Created a new partition 2 of type 'Linux' and of size 3 GiB.

Command (m for help):
```



