

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 formatted 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.