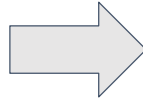# Block Based
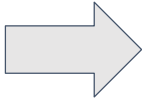
EBS

Totally = 16 KB in size

Divide your object into the blocks max 4KB inseize

Each Block=4KB in size

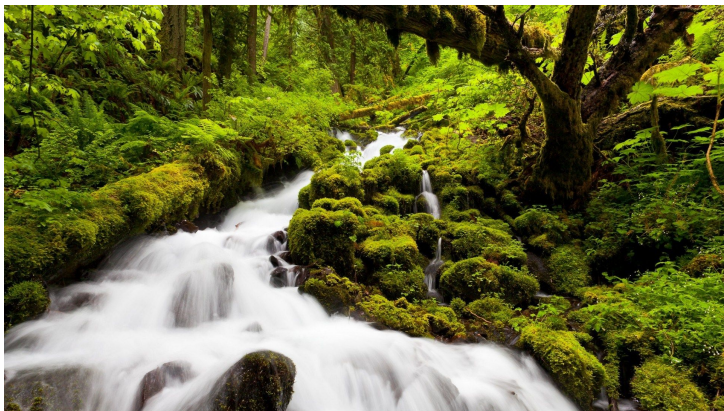| Block1 | Block2 | Block3 | Block4 |
| Block5 | Block6 | Block7 | Block8 |
| Block9 | Block10 | Block11 | Block12 |
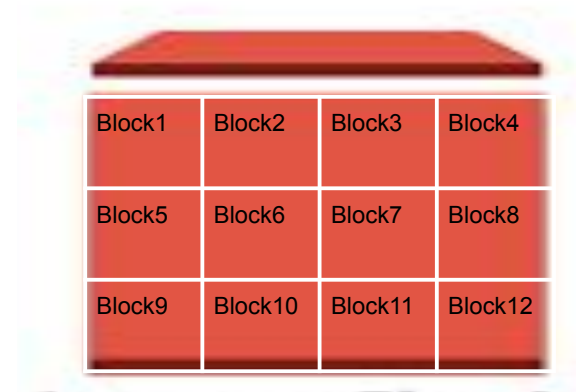
Totally = 48KB

Total blocks number= 12

Each Block= 4KB in seize

EC2

Who can call the data? =Only related EC2

IOPS

Throughput

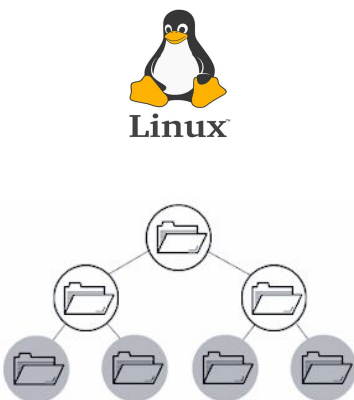Amazon EBS
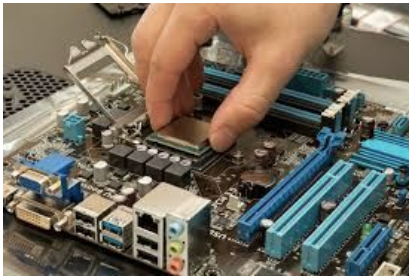
Attaching-outside

Physically Associated

AWS M. Console

lsblk: ✅
df -h ❌

Mounting-inside

Turn the system on

Terminal

lsblk: ✅
df −h: ✅

Linux

/dev/xvdf

/mnt

/mnt/mp1

/mnt/mp2 /mnt/mp2
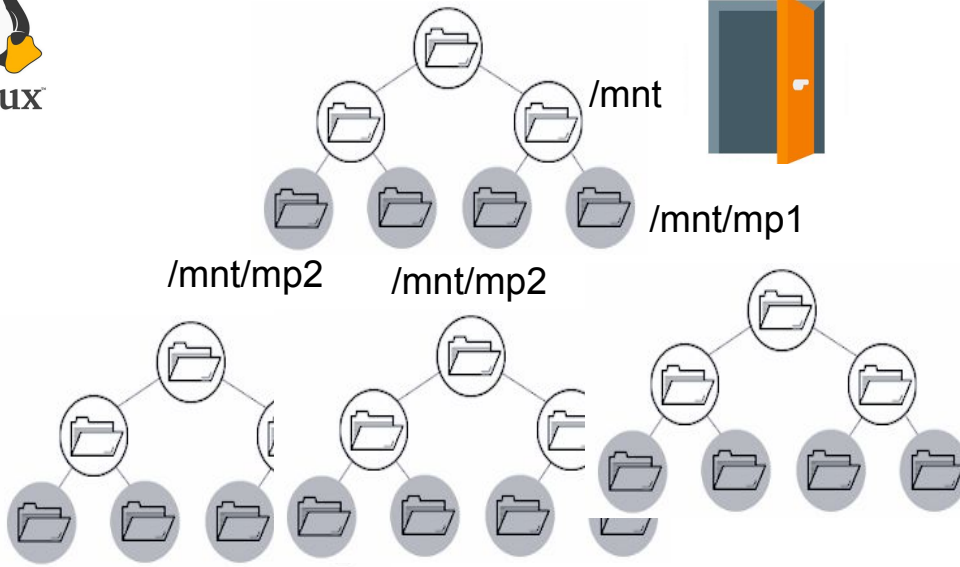
/dev/xvdf
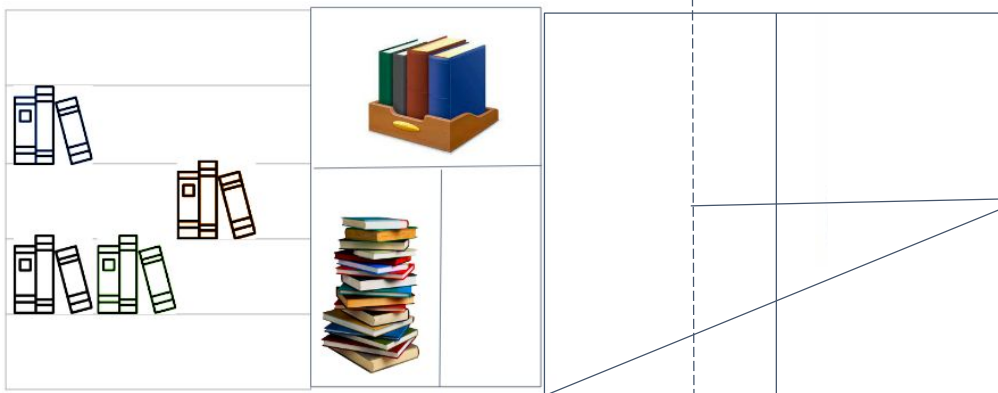
Instance Reboot

A Volume unmount olur; bilgi silinir

B Volume mount kalır; bilgi silinir

C Volume unmount olur; bilgi kalır

D Volume mount kalır; bilgi kalır

Resizing

Modify from console from 5 to 6 gb

1
Lsblk: ✅ 6
Df -h ❌ 5 -1
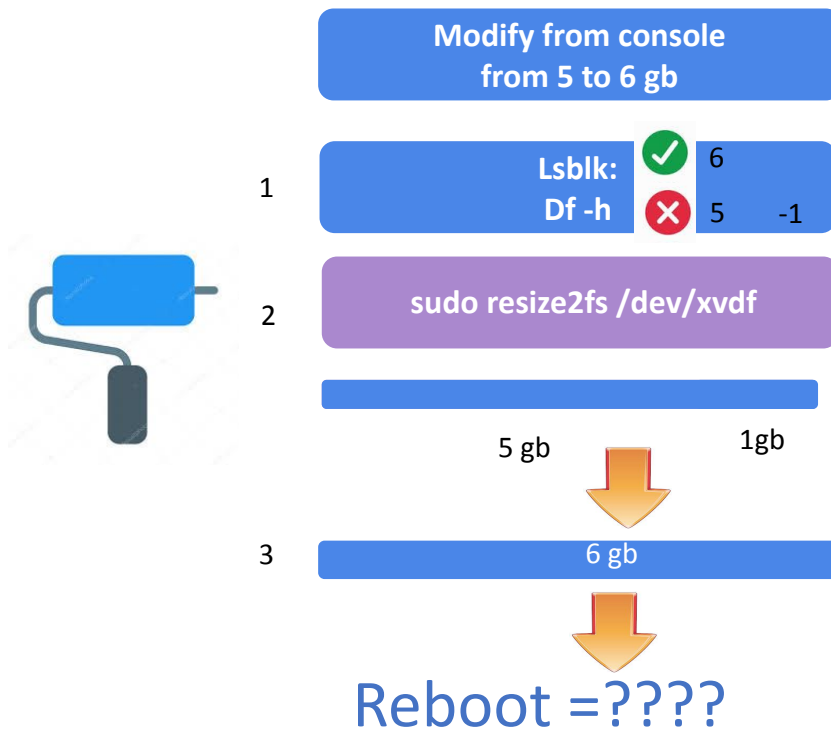
- Save your data?

- Change the format of the newly added volume into format that previous size has

2
sudo resize2fs /dev/xvdf

5 gb   1gb

3
6 gb

Reboot =????

Attach new volume and make Partition

1
5 gb

part 1=2 gb

2
5 gb

part 1=2 gb   **part 2= 3 gb**
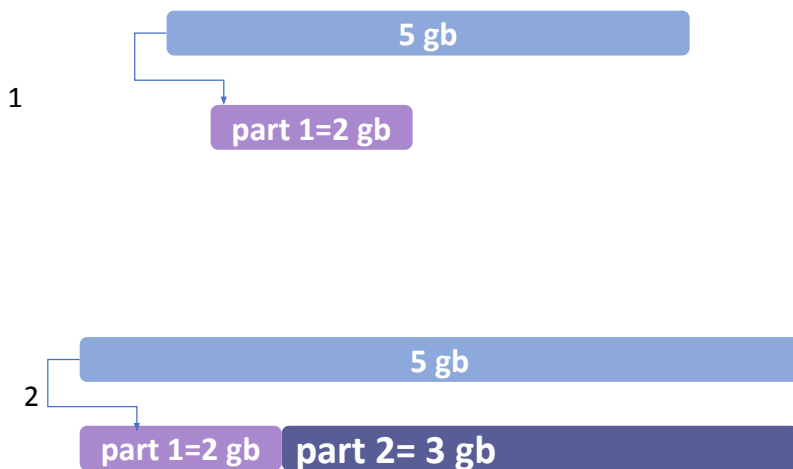
Make Partition

✅

1
umount if it is mounted

2
Make partition

3
Format the partition

4
mount partition

Attach new volume and make Partition

root

128 gb

C=128 gb

128 gb

C=128 gb

e

5 gb

E=2 gb

F=2gb
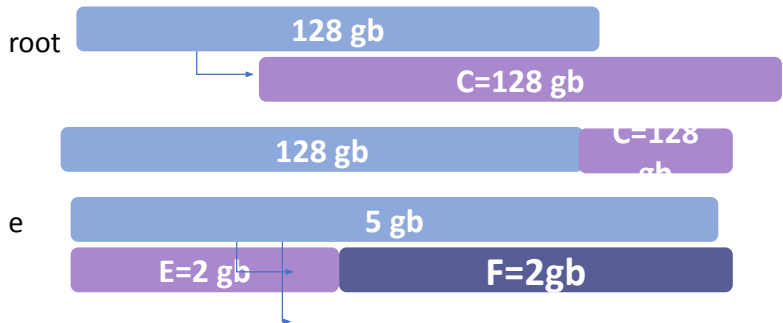
Partition Resizing add. volume

Modify from console
from 5 to 6 gb

Lsblk

df -h

xvdg   6 gb

xvdg1   xvdg2 1 gb

xvdg

xvdg1   xvdg2

sudo growpart /dev/xvdg 2

!!!!!!!
g space 2

sudo resize2fs /dev/xvdg2

Lsblk

df -h

Equal the Size of xvdg2 to xvdg · Equal the Format of xvdg2 to xvdg2
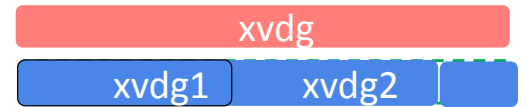
Partition Resizing root volume

Modify from console from 8 to 12 gb

Lsblk

xvda   12 gb

xvda1   4 gb

!!!!!!!!
a space 1
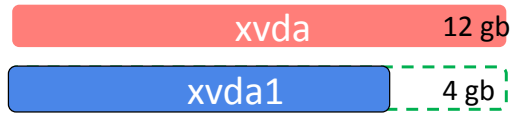
sudo growpart /dev/xvda 1

Lsblk

Equal the size of xvda1

df -h

xvda

xvdg1   ?
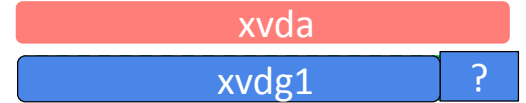
sudo xfs_growfs /dev/xvda1

df -h

Equal the format of xvda1

universally unique identifier

<device>	<dir>	<type>	<options>	<dump>	<fsck>
UUID=55da5202-8008-43e8-8ade-2572319d9185	/	xfs	defaults,noatime	1	1
/dev/xvdf	/mp3	ext4	defaults,nofail	0	0

option

nofail allows the boot sequence to continue **even if the drive fails** to mount.
noatime will tell the filesystem **not to record the last accessed date** of the file. it increases speed

dump

Enable or disable **backing up** of the device/partition. 0 , disables

fsck

Sets the order for **filesystem checks** at boot time; For the **root device it should be 1**. **For other partitions** it should be 2, or **0** to disable checking.

0 = Do not check.
1 = First file system (partition) to check; / (root partition) should be set to 1.
2 = All other filesystems to be checked.