Block Based

EBS

Totally = 16 KB in size

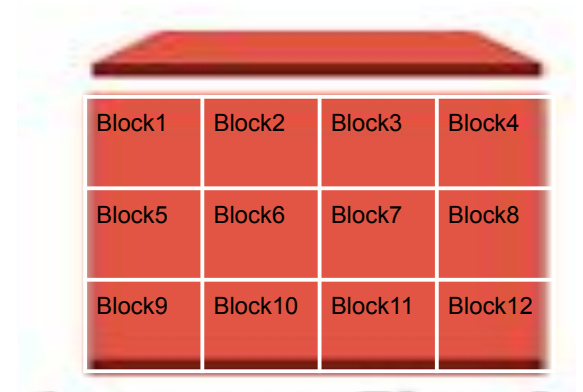Divide your object into the blocks max 4KB inseize

Each Block=4KB in size

Block1	Block2	Block3	Block4
Block5	Block6	Block7	Block8
Block9	Block10	Block11	Block12

EC2

Totally = 48KB

Total blocks number= 12

Each Block= 4KB in seize

Who can call the data? =Only related EC2

IOPS

Throughput

Amazon EBS
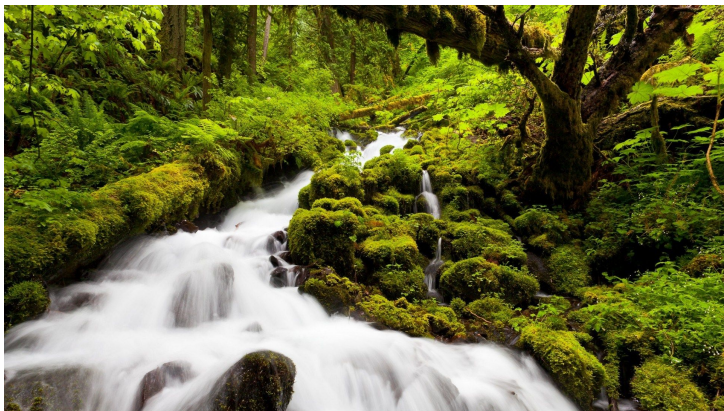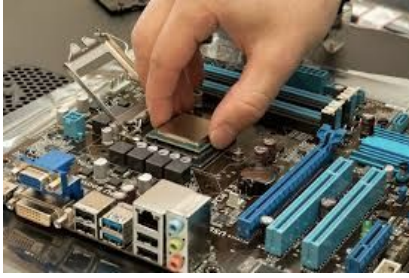
Attaching-outside

Physically Associated

AWS M. Console

lsblk: ✅
df -h ❌

Mounting-inside

Turn the system on

Terminal

lsblk: ✅
df –h: ✅

/dev/xvdf

/
/mnt
/mnt/mp1

/dev/xvdf

Resizing

Modify from console from 5 to 6 gb

1 | Lsblk: ✅ 6
Df -h ❌ 5   -1

2 | **sudo resize2fs /dev/xvdb**

5 gb   1gb

3 | 6 gb

Reboot =????
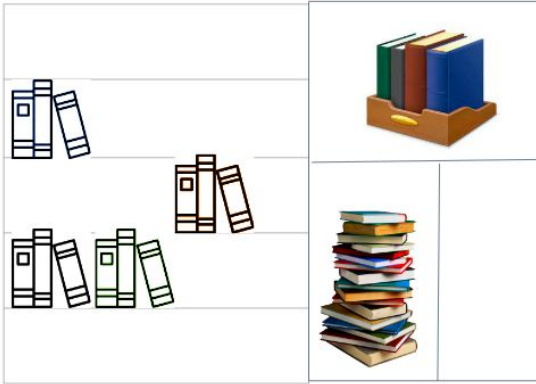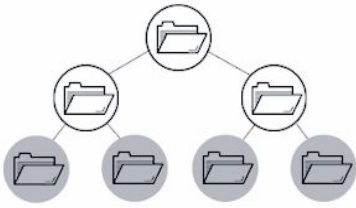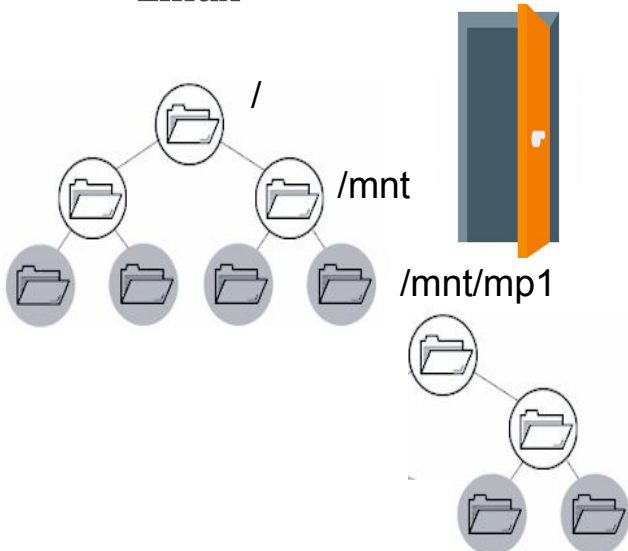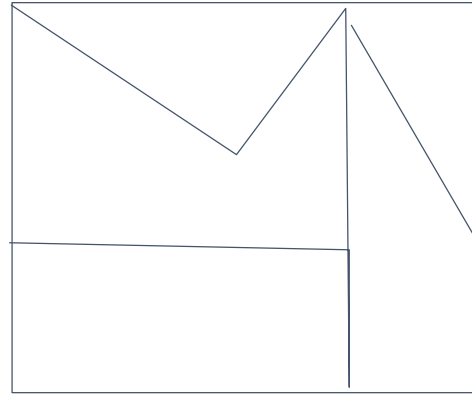
- Save your data?

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

Attach new volume and make Partition

Make Partition

1 | 5 gb

part 1=2 gb

2 | 5 gb

part 1=2 gb   2=   part 2= 3 gb

Partition Resizing root volume

Modify from console from 8 to 12 gb

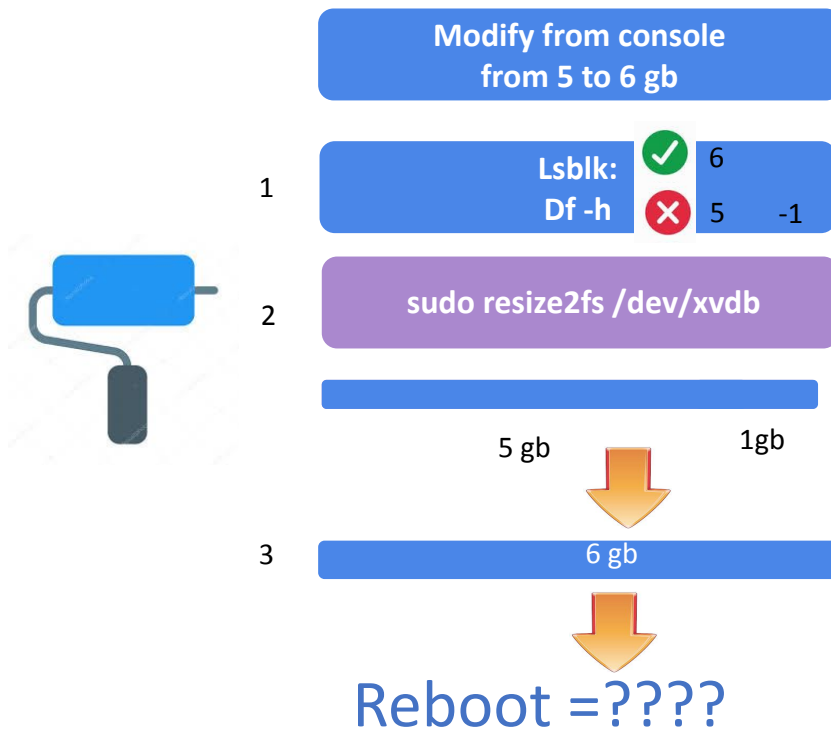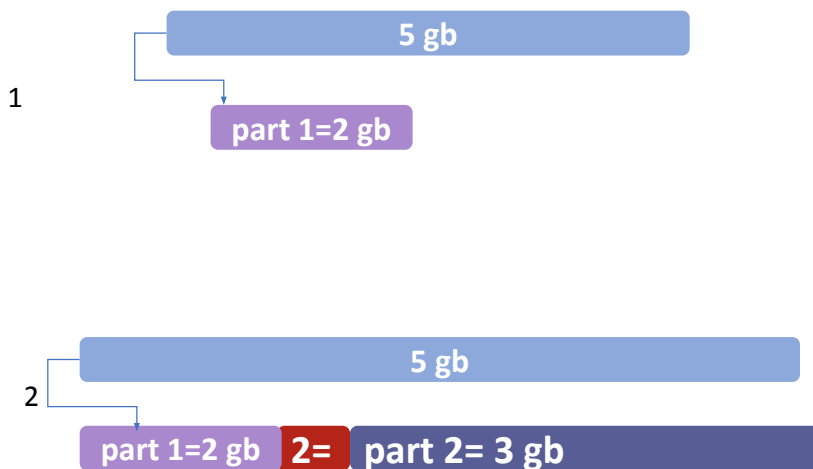## Lsblk

xvda	10 gb
xvda1	2 gb

↓

sudo growpart /dev/xvda 1

!!!!!!!!
a space 1

Lsblk

Equal the size of xvda1

df -h

xvda
xvda1

↓
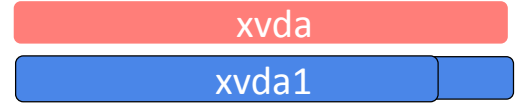
sudo xfs_growfs /dev/xvda1

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.

Partition Resizing add. volume

Modify from console
from 5 to 6 gb

Lsblk

xvdb 6 gb

xvdc1 xvdc2 1 gb

sudo growpart /dev/xvdc 2

Lsblk

Equal the **size** of xvdc2

!!!!!!!!
g space 2

df -h

xvdc

xvdb1 xvdb2

sudo resize2fs /dev/xvdc2

df -h

Equal the **format** of xvdb2