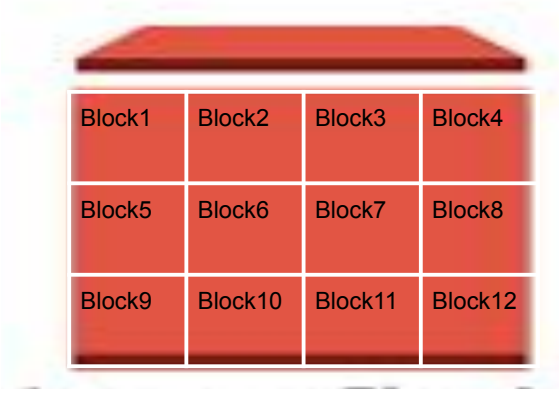
Block Based

Totally = 16 KB in size

Divide your object into the blocks max 4KB inseize

Each Block=4KB in size

EBS



Totally = 48KB

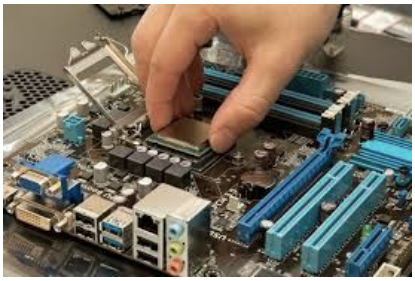
Total blocks number= 12

Each Block= 4KB in seize

Who can call the data? =Only related EC2

IOPS

Throughput

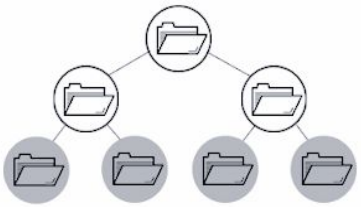


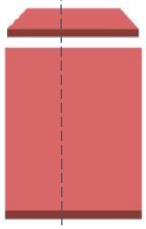
Attaching-outside

- Physically Associated
- AWS M. Console
- lsblk: ✓
  df -h ✗

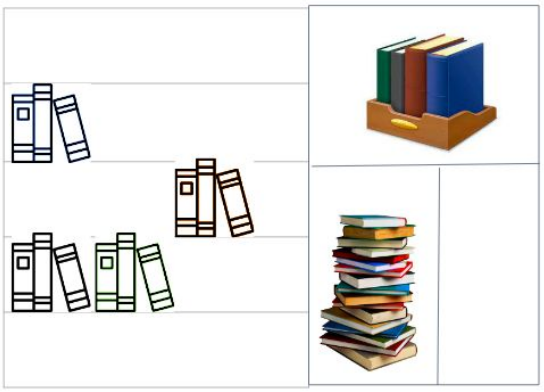
Mounting-inside

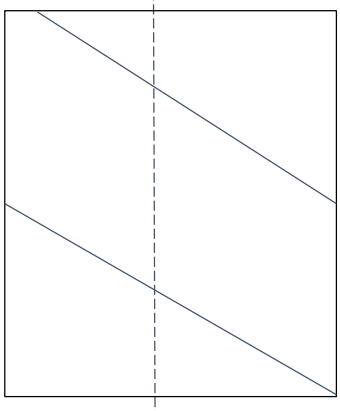
- Turn the system on
- Terminal
- lsblk: ✓
  df –h: ✓

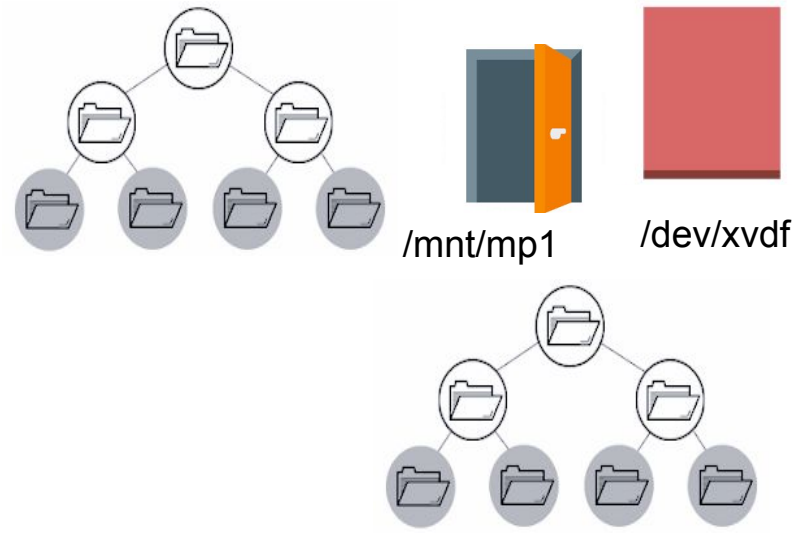




/dev/xvdf







Resizing

Modify from console
from 5 to 6 gb

1 Lsblk: Df -h — 6 / 5 -1

2 sudo resize2fs /dev/xvdf

5 gb 1gb

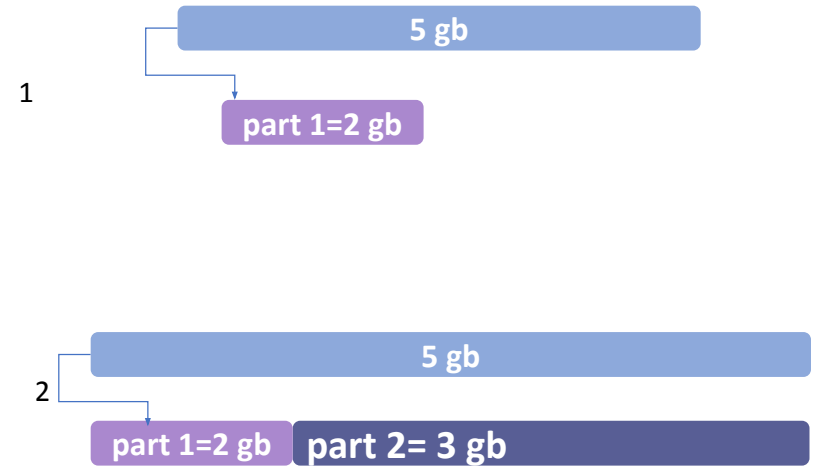
3 6 gb

Reboot =????

- Save your data?

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

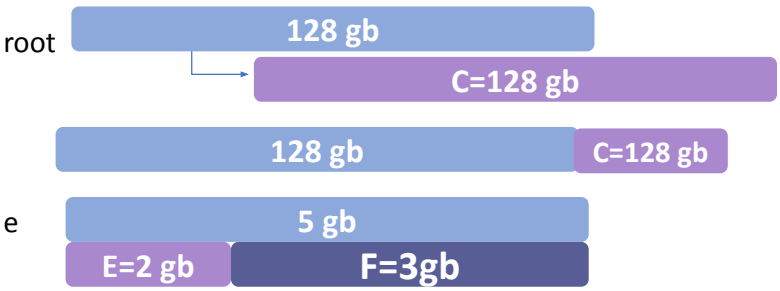
Attach new volume and make Partition



Make Partition

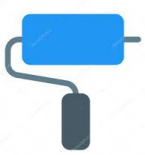
1. umount if it is mounted
2. Make partition
3. Format the partition
4. mount partition

Attach new volume and make Partition



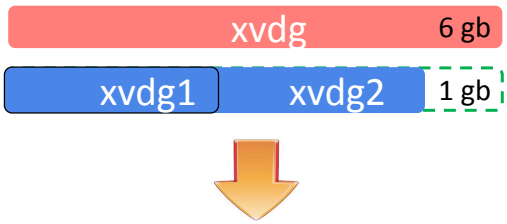
Partition Resizing add. volume

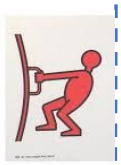
Modify from console
from 5 to 6 gb

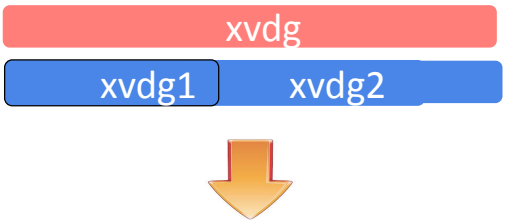


Lsblk

df -h







!!!!!!!!
g space 2

sudo growpart /dev/xvdg 2

sudo resize2fs /dev/xvdg2

Lsblk

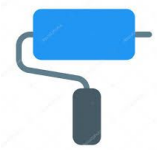
df -h

Equal the size of xvdg2 to xvdg

Equal the format of xvdg2 to xvdg2

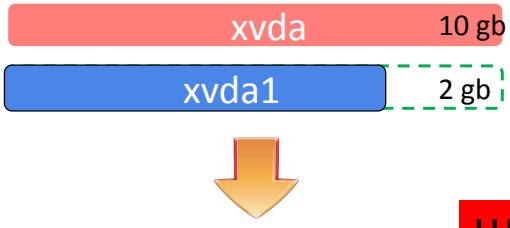
Partition Resizing root volume

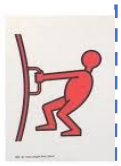
Modify from console
from 8 to 12 gb

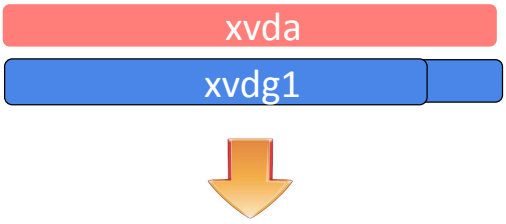


Lsblk

df -h







!!!!!!!!
a space 1

sudo growpart /dev/xvda 1

sudo xfs_growfs /dev/xvda1

Lsblk

df -h

Equal the size of xvda1

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.