Class 11

Partition =

Mounting =

Linux = /dev/sda = partition = format = mounting

Mounting = it is way to connect to attach partition with a folder .

/dev/sda1 = 5gb = ext3

2 types

1. Temporary mounting = restart = again do
2. Permanent mounting = always

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1. Temporary mounting =
   /dev/sda1 = ext3
   /mnt or /media
   Mkdir /test
   Mount /dev/sda1 /test

   See the mounting
   Df –h or df –Th or mount
   Partition format from ext2,3,4 = lost+found
   In xfs = no

   Unmounting

   1. Restart
   2. Umount /dev/sda1 or umount /test or umount /dev/sda1 /test

We can mount a partition with multipoint

Mkdir aa bb cc dd

/dev/sda1

Permanent mounting

/etc/fstab

/dev/sda1 xfs /test

Vim /etc/fstab

/dev/sda1 /test xfs defaults 0 0

/dev/sda1 = partition name

/test = mounted point

xfs = file system

defaults = read and write , defaults,ro = read only

0 = fsck (filesystem check) = kernel check the partition after every start or restart . (0 =no check , 1 = check , 2 = check after every start not in restart)

0 = dumb (journaling) = 0 =off , 1 =on

Update the kernel

Mount -a

Only see the data

Defaults,ro

Update the kernel

Mount –o remount /test

UUID = unique universal identification

Blkid

/etc/fstab

Wrong = issue

/dev/sda1 = 2TB = ext2

Upgrade the file system

Ext2-ext3

Umount /dev/sda1

Tune2fs -j /dev/sda1

Ext2- ext4

Umount /dev/sda1

We cant upgrade in xfs

Tune2fs -O dir_index,has_journal,uninit_bg /dev/sda1

Ext3-ext4

Tune2fs -O extents,uninit_bg,dir_index /dev/sda1

If u do degrade the data will loss .

See jourlling enabled or not

Tune2fs –l /dev/sda1 | grep features

Off the journaling

Umount

Tune2fs -O ^has_journal /dev/sda1

Again enable

Tune2fs -O has_journal /dev/sda1

Defragment = it keep the data in sequence form

/dev/sda1 = 1TB =

Mount the partition

Ext2,ext3,ext4 = e4defrag /dev/sda1

Xfs = xfs_fsr /dev/sda1

Remove the bad sector

Umount the parititon

Ext2,3,4 = e2fsck -cfpv /dev/sda1

-c = search the bad sector , -f =forcefully , -p= repair , -v =verbose

Xfs =xfs_repair /dev/sda1

Mounting , upgrade the filesystem,

Swap partition, password on the partition