

Class 12

Swap partition

/ , /boot

Swap = it is use to save the pending instruction in temporary form when RAM is full

Basic rule to make swap

If RAM is less than or equal to 2GB = swap size = 2xRAM size = 2x1GB = 2GB

If RAM size more than 2GB - 8GB = 2+RAM size = 2+4GB = 6GB

If RAM size is more then 8 GB = same size = 12GB RAM = 12GB

We can make swap partition from 2 type

1. When we have spare space in HD = swap as partition
 2. We have no space = swap as file
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Swap as partition

See the RAM size = free -h

Check the swap = swapon -s

Make a partition and give the id 82

Primary = 83

Extended = 5

Logical = 83

Swap = 82

LVM = 8e

RAID = fd

Press t for change the id

Mkswap /dev/sda1

Swapon /dev/sda1

Vim /etc/fstab

```
/dev/sda1    swap    swap    defaults    0    0
```

```
:wq
```

Mount -a

Off the swap

Swapoff /dev/sda1

2 way - swap as a file

500 GB Hard disk = /=400GB , /boot -100GB

/ = 400GB = 300GB

Dd if=/dev/zero of=/harshil bs=1GB count=2

Dd = command to make file as partition

if=/dev/zero = partition number

of=/harshil = file name

bs=1GB = block size =1GB

count=2

2x1GB = 2GB

Bs=500MB

Count = 8

8x500MB = 4000MB = 4GB

Mkswap /harshil

Chmod 600 /harshil = change the permission

Vim /etc/fstab

/harshil swap swap defaults 0 0

:wq

Mount -a

Swapon /harshil

File=2GB

Partition = 4GB

Give the password the partition (LUKS = linux unified key setup)

Make a partition not format it

Give the password

Cryptsetup luksFormat /dev/sda1

]YES

] give the password (complex = phone no)

Open the partition

Cryptsetup luksOpen /dev/sda1 india

]give the password

Format

Mkfs.ext4 /dev/mapper/india

/dev/sda1 = /dev/mapper/india

Mkdir /test

Vim /etc/fstab

```
/dev/mapper/india /test ext4 defaults 0 0
```

:wq

Mount -a

Close the partition

Umount /test

Cryptsetup luksClose india

GUI
