Class 21

Quota management

Gmail ID = 15GB

It is use to give limitation to user and group on storage use

2 type

- 1. Soft quota = it give the warning after given limit but we can save the data .
- 2. Hard quota = we can upload till given limit, after it we can't.

2 way to apply the quota

- 1. Block wise = in this type we set quota according to size
- 2. Inode wise = In this type we set quota according to inode.

Partition , format it and mounting

/dev/sda1 = 5GB = ext4

Mounting

Temporary mounting

Mount -o usrquota, grpquota /dev/sda1 /mnt

Permanent mounting

Vim /etc/fstab

/dev/sda1 /mnt ext4 defaults,usrquota,grpquota 0 0

:wq

Quotacheck -ugmv /mnt (-u = user , -g = group , -m =make , -v = verbose) = activate the quota

On the quota

Quotaon -v /mnt

Off the quota

Quotaoff -v /mnt

Apply the quota to a user

Useradd harsil

Edquota -u harshil

Filesystem blocks soft hard inodes soft hard

/dev/sda1 0 0 0 0 3 5

Filesystem blocks soft hard inodes soft hard

```
/dev/sda1
                             100
                                     200
                                                 0
                       0
                                                         0
                                                              0
Size in kb
:wq
Apply the quota on the group
Groupadd hr = 100 member
Edquota –g hr
Copy the quota policies from 1 user to 2 user
Edquota -p username1
                            username2
Copy the quota policies from 1 group to another group
Edquota –g -p group1
                        group2
ACL (Access control list) =it is the way to apply the partial permission for user and group
/data = aa bb cc
Nonprivilege user = aa bb cc
Chmod 744 /data
7 = root
4= non-privilege
4= system user
Aa ,bb ,cc = see the data
Aa = rwx
Bb = r-x
Cc = --x
Mkdir /data = touch aa bb cc
User = aa ,bb ,cc
See the acl
Getfacl /data
Apply the acl
                              (-m = modify)
Setfacl -m u:aa:rwx /data
To apply the acl inside also
Setfacl -R -m u:aa:rwx /data (-R -recursive)
```

Setfacl -m u:bb:rx /data

```
Setfacl -m u:cc:x /data
Apply the acl in group
Group -hr
Setfacl -m g:hr:rwx /data
Remove a single use from acl
Setfacl -x u:aa /data (-x =exclude)
Remove all from acl
Setfacl -b /data (-b =all remove)
Quota, acl
RAID
Home directory
User = xyz = /home/xyz
/abc
Xyz-sh)$
/skel
Cp -rvf /skel/* /abc
```