

Enable Quota on RHEL/CentOS

Written by Friends

Wednesday, 14 May 2014 17:44 - Last Updated Wednesday, 14 May 2014 17:48

Quota is used for limiting the disk usage for users or groups.

```
###To verify that the quota is enabled in the kernel###  
#grep CONFIG_QUOTA /boot/config-`uname -r` CONFIG_QUOTA=y  
CONFIG_QUOTA_NETLINK_INTERFACE=y  
# CONFIG_QUOTA_DEBUG is not set  
CONFIG_QUOTA_TREE=y  
CONFIG_QUOTACTL=y  
[root@rajat rajat]# yum -y install quota
```

Create user :

```
#useradd rajat  
#passwd latar
```

Edit /etc/fstab :

From :

```
/dev/sda5 /home ext3 defaults 1 2
```

To :

```
/dev/sda5 /home ext3 defaults,usrquota,grpquota 1 2
```

Remount the disk (make sure it's not in use) :

```
#mount -o remount /home
```

Check if usrquota and grpquota are enabled :

```
#mount | grep /home
```

Create quota files :

```
#quotacheck -cvug /home
```

This creates /home/aquota.user and /home/aquota.group

Check quota :

```
#quotacheck -avug
```

Enable quota for user1 :

```
#edquota user1
```

Edit soft and hard limits (1000 = 1 MB) or inode values.

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Check the quota for user1 :

```
#quota user1
```

Enable quota :

```
#quotaon -avug
```

In addition :

Through a cron, run everynight when the filesystem is not used :

```
#quotaoff -avug && quotacheck -avug && quotaon --avug
```

Get quota stats :

```
#repquota -a
```

The **edquota** command can also be used to copy quota settings for one user as a template to any number of users in your system You will need to use **-p** switch of the **edquota** command to copy quota settings.

Terminal

```
[root@server1~] # edquota -up user1 user2 user3 user4 setquota command
```

Alternatively you can use the setquota command to set quotas on users and groups.

Terminal

```
[root@server1~] # setquota -u user1 0 0 0 0 /partmount
```

To set a quota of 4GB to user henry we would use the following command

Terminal

```
[root@server1~] # setquota -u henry 4194304 4194304 0 0 /partmount
```

Its important to remember to calculate Megabytes in times 1024 X 1MB and Gigabytes as (1024)²

x 1GB

To set 240Msoft, 256M hard for user jerry

Terminal

```
[root@server1~] # setquota -u jerry 245760 262144 0 0 /partmount
```

Commands Description

/sbin/quotaon /fs This command will enable quotas for the filesystem.

/sbin/quotaoff /fs This command will disable quotas for the filesystem.

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| | | |
|---------------------------------|-----------------------|--|
| <code>/usr/sbin/edquota</code> | <code>username</code> | Edit the quotas for a specific user. |
| <code>/usr/bin/quota</code> | | Users can review the quotas set for them. |
| <code>/usr/sbin/repquota</code> | | Generates a report of disk usage by users. |
| <code>/sbin/quotacheck</code> | | Checks for quota usage |
