

## Enable Quota on RHEL/CentOS

Written by Friends

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

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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)<sup>2</sup>

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

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