How to resize user's quota

From AudioWiki

Step by step

First, you get into hq machine with ssh command and working in sudo mode:

```
$ ssh user_name@smartveu.upc.edu -X
$ sudo -s
```

Umounting home

```
$ umount /home
```

If you have any problem you can continue in **Quota commands** point.

If you can't umount **/home** partition don't be afraid, it would be due to ssh and NFS daemons.

Stopping NFS daemon

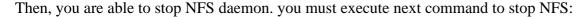First of all, you must log out all users from hq server with next command:

```
$ killall -u username
```

And after this, kill all process that are using hq/home folder. With:

```
$ lsof /home
```

you can see who is using that folder.

Then, you are able to stop NFS daemon. you must execute next command to stop NFS:

```
$ /etc/init.d/nfs-kernel-server stop
```

after this, you must comment next line from /etc/exports:

```
$ /home          192.168.123.0/255.255.255.0(rw,no_root_squash,no_subtree_check)
```

and start NFS daemon again:

```
$ /etc/init.d/nfs-kernel-server start
```

If you can't stop NFS daemon, most probably is some user who has been loged out per force get into the system again. To avoid this situation you should stop SSH daemon.

Stopping SSH daemon

To avoid connection from all user to the server you must do:

```
$ vim vim /etc/ssh/sshd_config
```

and modify or add next lines

```
##ALLOW USERS
AllowUsers admin_user_name
DenyUsers *
```

Restart the SSH daemon:

```
$ /etc/init.d/ssh restart
```

Mounting home

```
$ xfs_quota -xc 'report -hu' /home
```

If you get something like this:

```
User quota on /home (/dev/vda8)
                      Blocks
User ID        Used   Soft   Hard Warn/Grace
---------- --------------------------------
root          6.1G      0      0  00 [------]
slurm         24K       0      0  00 [------]
user1         5.4G   9.8G  10.7G  00 [------]
user2         5.2G   9.8G  10.7G  00 [------]
user3       249.1M   9.8G  10.7G  00 [------]
user4         2.2G   9.8G  10.7G  00 [------]
```

Everythong is correct and you've finished your work.

But if you get 0's on **Soft** and **Hard** columns like this:

```
User quota on /home (/dev/vda8)
                       Blocks
User ID        Used   Soft   Hard Warn/Grace
---------- --------------------------------
root           6.1G      0      0  00 [------]
slurm           24K      0      0  00 [------]
user1          5.4G      0      0  00 [------]
user2          5.2G      0      0  00 [------]
user3          5.2G      0      0  00 [------]
user4          5.2G      0      0  00 [------]
```

you need go on further this guide. You need execute command of **Quota commands** section for every user.

Quota commands

```
$ xfs_quota -x -c 'limit -u bsoft=1000m bhard=2000m user_name' /home
```

If you had problems umounting home folder

NFS daemon troubles

If you had to modify /etc/exports file you will stop NFS daemon again.

```
$ /etc/init.d/nfs-kernel-server stop
```

after this, you must uncomment next line from /etc/exports:

```
$ #/home                192.168.123.0/255.255.255.0(rw,no_root_squash,no_subtree_check)
```

and start NFS daemon again:

```
$ /etc/init.d/nfs-kernel-server start
```

SSH daemon troubles

To allow connection from all user to the server you must do:

```
$ vim vim /etc/ssh/sshd_config
```

and modify or add next lines

```
##ALLOW USERS
#AllowUsers admin_user_name
#DenyUsers *
```

Restart the SSH daemon:

```
$ /etc/init.d/ssh restart
```

Rebooting the machine

```
hq:/home/user_name$ reboot
```

Afterwards, SLURM daemons need to be restarted in the next order:

- Start SLURMDBD daemon:

```
$ /etc/init.d/slurm-llnl-slurmdbd start
```

- Restart SLURM daemon: (if you make a start command you will get a warning message because this daemon is running)

```
$ /etc/init.d/slurm-llnl restart
```

Troubleshoting

When you reboot hq machine must not be connected any usb component, like usb hard disks, etc ... because hq machine can't start with a usb device connected and it hangs.

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