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[Top Level](#) » [System Level](#) » [File System](#)**Setting up quotas on an XFS partition**

The xfs file system is different than the previous ext3/ext4 file systems.

This guide will be closely related to the [standard quota setup guide](#), except that xfs may have a few extra steps that require more manual intervention.

If you need quotas setup on the /home partition, then the guide should be very similar to the [standard quota setup guide](#). However, if you need quotas setup on /, where directory under /, then extra steps are required.

As well, we replace the grpquota with **pquota** (project quotas), which will allow DA to setup directoy quotas, for things like enforcement of per-domain disk quotas.

To confirm what setup you have, run the df commmand, eg:

```
[root@es7-64 ~]# df -h
Filesystem                Size      Used Avail Use% Mounted on
/dev/mapper/centos-root    14G        2.3G    12G   17% /
devtmpfs                   915M        0    915M    0% /dev
tmpfs                      921M        24K    921M    1% /dev/shm
tmpfs                      921M       8.5M    912M    1% /run
tmpfs                      921M        0    921M    0% /sys/fs/cgroup
/dev/sdal                  497M       125M   372M   26% /boot
[root@es7-64 ~]#
```

as you can see, /home is not a partition, so it falls under the / partition, so we must ensure that quotas are functional on the / partition.

0) Next confirm that / is actually using the xfs file system:

```
[root@es7-64 ~]# mount | grep ' / '
/dev/mapper/centos-root on / type xfs (rw,relatime,attr2,inode64,noquota)
[root@es7-64 ~]#
```

if you see the "noquota" option, then you need to go to step 1, below.

If you don't see noquota, then you should be able to follow the [standard quota setup guide](#), but adding uquota,pquota to the /etc/fsab, after the default option.

If you see "noquota" in the xfs mount options for the / partition

1) Because "noquota" is a default kernel mounting option, we must change it in the kernel boot options.

Edit the file:

```
/etc/default/grub
```

2) Find the line with the variable "GRUB_CMDLINE_LINUX", that might look like this (it may not look exactly the same, don't worry):

```
GRUB_CMDLINE_LINUX="rd.lvm.lv=centos/swap vconsole.font=latarcyrheb-sun16 rd.lvm.lv=centos/root crashkernel=auto vconsole.keym
```

3) We're going to put a "rootflags=" variable at the end of the line

- And add uquota,pquota as the values

It might look something like this:

```
GRUB_CMDLINE_LINUX="rd.lvm.lv=centos/swap vconsole.font=latarcyrheb-sun16 rd.lvm.lv=centos/root crashkernel=auto vconsole.keym
```

4) Now, based on that setup, we'll backup, then create a new grub.cfg file:

```
cp /boot/grub2/grub.cfg /boot/grub2/grub.cfg.orig
grub2-mkconfig -o /boot/grub2/grub.cfg
```

The path on some OSs has been changed to

```
/boot/efi/EFI/centos/grub.cfg
```

5) Lastly, we must reboot the box in order for the kernel to see these new options

```
reboot
```

6) We keep our fingers crossed that the box comes back, and login again. Go back to step **0)** to check the mounting options to ensure that "noquota" is gone, eg:

```
[root@es7-64 ~]# mount | grep ' / '
/dev/mapper/centos-root on / type xfs (rw,relatime,attr2,inode64,usrquota,prjquota)
[root@es7-64 ~]#
```

Once it's gone, we want to see usrquota,prjquota(or uquota,pquota, they're the same thing).

If you don't see, them, then add them to the / partition with the [standard quota setup guide](#).

7) Ensure that DirectAdmin has [xfs quotas enabled in the directadmin.conf](#):

```
cd /usr/local/directadmin  
./directadmin c | grep use_xfs_quota
```

8) If there are already Users created in DA, then you'll also want to reset their quota limits:

```
echo "action=rewrite&value=quota" >> /usr/local/directadmin/data/task.queue
```

to ensure their upper disk usage limits are enforced.

CloudLinux / DigitalOcean

Report that /etc/default/grub may be ignored for these setups.

The file /etc/rc.d/init.d/kexec applies instead (untested):

<https://docs.cloudlinux.com/index.html?digitalocean.html>

where you'd add the **rootflags=uquota,pquota** to the end of the line that start with **kexec -l**

Related Helpfiles

[Disk Usage is showing 0.00 or is too low](#)

[xfs_quota: cannot set limits: Function not implemented](#)

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