

CentOS

Install NFS Centos 7

- NFS Server: server.example.com, IP address: 192.168.2.133
- NFS Client: client.example.com, IP address: 192.168.2.134

```
Yum -y install vim perl mlocate
```

Configure the Firewall

```
yum -y install firewalld
```

```
systemctl start firewalld.service  
systemctl enable firewalld.service
```

```
firewall-cmd --permanent --zone=public --add-service=ssh  
firewall-cmd --permanent --zone=public --add-service=nfs  
firewall-cmd --reload
```

Installing NFS

```
yum -y install nfs-utils
```

```
systemctl enable nfs-server.service  
systemctl start nfs-server.service
```

client:

```
yum -y install nfs-utils
```

Exporting Directories on the Server

```
mkdir /var/nfs  
chown nfsnobody:nfsnobody /var/nfs  
chmod 755 /var/nfs
```

```
vim /etc/exports
```

```
/home          192.168.2.134(rw,sync,no_root_squash,no_subtree_check)  
/var/nfs       192.168.2.134(rw,sync,no_subtree_check)
```

```
exportfs -a
```

Mounting the NFS Shares on the Client

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URL: <https://www.ictweetjes.nl/faq/content/0cat=5/37/nl/install-nfs-centos-7.html>

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client:

```
mkdir -p /mnt/nfs/home  
mkdir -p /mnt/nfs/var/nfs
```

```
mount 192.168.1.133:/home /mnt/nfs/home  
mount 192.168.1.133:/var/nfs /mnt/nfs/var/nfs
```

df -h

```
[root@client ~]# df -h Filesystem Size Used Avail Use% Mounted on  
/dev/mapper/centos-root 28G 1.7G 26G 7% /  
devtmpfs 909M 0 909M 0% /dev  
tmpfs 919M 0 919M 0% /dev/shm  
tmpfs 919M 8.6M 910M 1% /run  
tmpfs 919M 0 919M 0% /sys/fs/cgroup  
/dev/sda1 497M 208M 290M 42% /boot  
tmpfs 184M 0 184M 0% /run/user/0  
192.168.1.100:/home 28G 1.2G 27G 5% /mnt/nfs/home  
192.168.1.100:/var/nfs 28G 1.2G 27G 5% /mnt/nfs/var/nfs  
mount [root@client ~]# mount sysfs on /sys type  
sysfs (rw,nosuid,nodev,noexec,relatime,seclabel) proc on /proc type  
proc (rw,nosuid,nodev,noexec,relatime) devtmpfs on /dev type  
devtmpfs  
(rw,nosuid,seclabel,size=930320k,nr_inodes=232580,mode=755)  
securityfs on /sys/kernel/security type securityfs  
(rw,nosuid,nodev,noexec,relatime) tmpfs on /dev/shm type tmpfs  
(rw,nosuid,nodev,seclabel) devpts on /dev/pts type devpts  
(rw,nosuid,noexec,relatime,seclabel,gid=5,mode=620,ptmxmode=000)  
tmpfs on /run type tmpfs (rw,nosuid,nodev,seclabel,mode=755) tmpfs  
on /sys/fs/cgroup type tmpfs  
(ro,nosuid,nodev,noexec,seclabel,mode=755) cgroup on  
/sys/fs/cgroup/systemd type cgroup (rw,nosuid,nodev,noexec,relatime,x  
attr,release_agent=/usr/lib/systemd/systemd-cgroups-  
agent,name=systemd) pstore on /sys/fs/pstore type pstore  
(rw,nosuid,nodev,noexec,relatime) cgroup on /sys/fs/cgroup/perf_event  
type cgroup (rw,nosuid,nodev,noexec,relatime,perf_event) cgroup on  
/sys/fs/cgroup/hugetlb type cgroup  
(rw,nosuid,nodev,noexec,relatime,hugetlb) cgroup on  
/sys/fs/cgroup/devices type cgroup  
(rw,nosuid,nodev,noexec,relatime,devices) cgroup on  
/sys/fs/cgroup/freezer type cgroup  
(rw,nosuid,nodev,noexec,relatime,freezer) cgroup on  
/sys/fs/cgroup/cpuset type cgroup  
(rw,nosuid,nodev,noexec,relatime,cpuset) cgroup on
```

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```
/sys/fs/cgroup/cpu,cpuacct type cgroup
(rw,nosuid,nodev,noexec,relatime,cpuacct,cpu) cgroup on
/sys/fs/cgroup/net_cls type cgroup
(rw,nosuid,nodev,noexec,relatime,net_cls) cgroup on
/sys/fs/cgroup/blkio type cgroup
(rw,nosuid,nodev,noexec,relatime,blkio) cgroup on
/sys/fs/cgroup/memory type cgroup
(rw,nosuid,nodev,noexec,relatime,memory) configs on
/sys/kernel/config type configs (rw,relatime) /dev/mapper/centos-root
on / type xfs (rw,relatime,seclabel,attr2,inode64,noquota) selinuxfs on
/sys/fs/selinux type selinuxfs (rw,relatime) systemd-1 on
/proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=25,pgrp=1,timeout
=300,minproto=5,maxproto=5,direct) mqueue on /dev/mqueue type
mqueue (rw,relatime,seclabel) debugfs on /sys/kernel/debug type
debugfs (rw,relatime) hugetlbfs on /dev/hugepages type hugetlbfs
(rw,relatime,seclabel) sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs
(rw,relatime) nfsd on /proc/fs/nfsd type nfsd (rw,relatime) /dev/sda1 on
/boot type xfs (rw,relatime,seclabel,attr2,inode64,noquota) tmpfs on
/run/user/0 type tmpfs
(rw,nosuid,nodev,relatime,seclabel,size=188060k,mode=700)
192.168.1.100:/home on /mnt/nfs/home type nfs4 (rw,relatime,vers=4.0
,rsize=262144,wsiz=262144,namlen=255,hard,proto=tcp,port
=0,timeo=600,retrans=2,sec=sys,clientaddr=192.168.1.101,local_lock
=none,addr=192.168.1.100)
192.168.1.100:/var/nfs on /mnt/nfs/var/nfs type nfs4 (rw,relatime,vers=
4.0,rsize=262144,wsiz=262144,namlen=255,hard,proto=tcp,port
=0,timeo=600,retrans=2,sec=sys,clientaddr=192.168.1.101,local_lock
=none,addr=192.168.1.100)
```

Testing

client:

```
touch /mnt/nfs/home/test.txt
touch /mnt/nfs/var/nfs/test.txt
```

server:

```
ls -l /home/
```

```
[root@server1 ~]# ls -l /home/
total 0
```

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```
drwx-----. 2 administrator administrator 59 Jun 21 16:13 administrator  
-rw-r--r--. 1 root root 0 Jun 29 13:07 test.txt
```

```
ls -l /var/nfs
```

```
[root@server1 ~]# ls -l /var/nfs
```

```
total 0
```

```
-rw-r--r--. 1 nfsnobody nfsnobody 0 Jun 29 13:07 test.txt
```

Mounting NFS Shares at Boot Time

client:

Open /etc/fstab and append the following lines:

```
vim /etc/fstab
```

```
[...]
```

```
192.168.2.133:/home /mnt/nfs/home nfs rw,sync,hard,intr 0 0
```

```
192.168.2.133:/var/nfs /mnt/nfs/var/nfs nfs rw,sync,hard,intr 0 0
```

```
reboot
```

```
df -h
```

```
mount
```

Bijgevoegde bestanden::

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Auteur:: diode

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