

# Configure AutoFS To Auto Mount The File-System (NFS Share) in Linux (RHEL)

Autofs is a service in Linux like operating system which automatically mounts the file system and remote shares when it is accessed.

Main advantage of autofs is that you don't need to mount file system at all time, file system is only mounted when it is in demand.

Server Configuration (192.168.1.109):

---

**yum repolist**

Configure YUM in RHEL 7:



**yum install -y nfs\***

**mkdir /public**

**mkdir /private**

**chmod 777 /public**

**touch /public/calpublic.txt**

**chmod 777 /private**

**touch /private/calprivate.txt**

```
chmod 777 /private
```

```
touch /private/calprivate.txt
```

```
vim /etc/exports
```

```
/public 192.168.1.110(ro,sync)
```

```
/private 192.168.1.110(rw,sync)
```

```
exportfs -arvf
```

```
firewall-cmd --permanent --add-service=nfs
```

```
firewall-cmd --permanent --add-service=rpc-bind
```

```
firewall-cmd --permanent --add-service=mountd
```

```
firewall-cmd --reload
```

```
firewall-cmd --permanent --add-service=mountd
```

```
firewall-cmd --reload
```

```
systemctl start nfs-server
```

```
systemctl enable nfs-server
```

```
systemctl status nfs-server
```

```
systemctl start rpcbind
```

```
systemctl enable rpcbind
```

Client Configuration (192.168.1.110):

**yum repolist**

**yum install autofs -y**

**rpm -qi autofs**

**mkdir /automount**

**mkdir -p /automount/private**

**mkdir -p /automount/public**

**vim /etc/auto.master**

/automount /etc/automount.txt --timeout=60

**vim /etc/automount.txt**

public -ro,sync 192.168.1.109:/public

private -rw,sync 192.168.1.109:/private

**systemctl start autofs**

**systemctl enable autofs**

**systemctl status autofs**

**systemctl start rpcbind**

**systemctl enable rpcbind**

---

Test AutoFS:

Login on Client Machine and check the mount point details, here you won't see any NFS Share.

**df -hT**

**cd /automount/**

**cd private**

Again Check the mount point details, here you will see the private NFS Share.

**df -hT**

**cd .. ; cd public**

Again Check the mount point details, here you will see the public NFS Share.

**df -hT**

Now go inside both the directories one by one & try to create and remove some files, here you will find that only RW filesystem allows you to do that not the RO Filesystem.

Now come out of NFS Shares and wait for more than one min, again \ Check the mount point details, here you won't see any NFS Share.

Beacuse both NFS shares got unmounted automatically themself due to AutoFS Service.

You are done.

### # Practical

```
[root@nfs-server ~]# yum repolist
Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager
This system is not registered with an entitlement server. You can use subscription-manager to register.
epel/x86_64/metalink | 5.5 kB 00:00:00
epel | 4.7 kB 00:00:00
localrepo | 2.8 kB 00:00:00
(1/4): localrepo/group_gz | 103 kB 00:00:00
(2/4): localrepo/primary | 2.0 MB 00:00:00
(3/4): epel/x86_64/updateinfo | 1.0 MB 00:00:06
(4/4): epel/x86_64/primary_db | 6.8 MB 00:00:53
localrepo 5229/5229
repo id repo name status
epel/x86_64 Extra Packages for Enterprise Linux 7 - x86_64 13,228
localrepo localrepo 5,229
repolist: 18,457
[root@nfs-server ~]# yum install nfs* -y
Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager
This system is not registered with an entitlement server. You can use subscription-manager to register.
```

```

Transaction Summary
=====
Install 3 Packages (+29 Dependent packages)

Total download size: 48 M
Installed size: 130 M
Downloading packages:
-----
Total                                     27 MB/s | 48 MB  00:00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : libquadmath-4.8.5-39.el7.x86_64                1/32
  Installing : libgfortran-4.8.5-39.el7.x86_64                2/32
  Installing : 2:texlive-kpathsea-lib-2012-43.20130427_r30134.el7.x86_64 3/32
  Installing : 2:texlive-kpathsea-bin-svn27347.0-43.20130427_r30134.el7.x86_64 4/32
  Installing : 2:texlive-kpathsea-svn28792.0-43.el7.noarch     5/32
  Installing : 2:texlive-base-2012-43.20130427_r30134.el7.noarch 6/32
  Installing : 1:perl-Error-0.17020-2.el7.noarch               7/32
  Installing : blas-3.4.2-8.el7.x86_64                        8/32
  Installing : lapack-3.4.2-8.el7.x86_64 [#####] 9/32

```

```

libquadmath.x86_64 0:4.8.5-39.el7
numpy.x86_64 1:1.7.1-13.el7
perl-Error.noarch 1:0.17020-2.el7
perl-Git.noarch 0:1.8.3.1-20.el7
perl-TermReadKey.x86_64 0:2.30-20.el7
pyparsing.noarch 0:1.5.6-9.el7
python-beaker.noarch 0:1.5.4-10.el7
python-mako.noarch 0:0.8.1-2.el7
python-markupsafe.x86_64 0:0.11-10.el7
python-matplotlib.x86_64 0:1.2.0-16.el7
python-nose.noarch 0:1.3.7-1.el7
python-paste.noarch 0:1.7.5.1-9.20111221hg1498.el7
python-tempita.noarch 0:0.5.1-6.el7
stix-math-fonts.noarch 0:1.1.0-5.el7
tllib.x86_64 0:5.1.2-14.el7
texlive-base.noarch 2:2012-43.20130427_r30134.el7
texlive-dvipng.noarch 2:svn26689.1.14-43.el7
texlive-dvipng-bin.x86_64 2:svn26509.0-43.20130427_r30134.el7
texlive-kpathsea.noarch 2:svn28792.0-43.el7
texlive-kpathsea-bin.x86_64 2:svn27347.0-43.20130427_r30134.el7
texlive-kpathsea-lib.x86_64 2:2012-43.20130427_r30134.el7

```

Complete!

[root@nfs-server ~]#

```

[root@nfs-server ~]# mkdir /public
[root@nfs-server ~]# mkdir /private
[root@nfs-server ~]# chmod 777 /public
[root@nfs-server ~]# chmod 777 /private/
[root@nfs-server ~]# cd /public/
[root@nfs-server public]# cal > calpublic.txt
[root@nfs-server public]# cat calpublic.txt
    April 2020
Su Mo Tu We Th Fr Sa
                1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30

```

```

[root@nfs-server public]# cd /private/
[root@nfs-server private]# c

```

```
[root@nfs-server private]# cal 2020 > calprivate.txt
[root@nfs-server private]# cat calprivate.txt
```

```

      1  2  3  4          1  2          1  2  3  4  5  6
 5  6  7  8  9 10 11    3  4  5  6  7  8  9    7  8  9 10 11 12 13
12 13 14 15 16 17 18    10 11 12 13 14 15 16    14 15 16 17 18 19 20
19 20 21 22 23 24 25    17 18 19 20 21 22 23    21 22 23 24 25 26 27
26 27 28 29 30          24 25 26 27 28 29 30    28 29 30
                        31

      July              August              September
Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa
              1  2  3  4          1          1  2  3  4  5
 5  6  7  8  9 10 11    2  3  4  5  6  7  8    6  7  8  9 10 11 12
12 13 14 15 16 17 18    9 10 11 12 13 14 15    13 14 15 16 17 18 19
19 20 21 22 23 24 25    16 17 18 19 20 21 22    20 21 22 23 24 25 26
26 27 28 29 30 31      23 24 25 26 27 28 29    27 28 29 30
                        30 31

      October          November          December
Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa
              1  2  3          1  2  3  4  5  6  7          1  2  3  4  5
 4  5  6  7  8  9 10    8  9 10 11 12 13 14    6  7  8  9 10 11 12
11 12 13 14 15 16 17    15 16 17 18 19 20 21    13 14 15 16 17 18 19
18 19 20 21 22 23 24    22 23 24 25 26 27 28    20 21 22 23 24 25 26
25 26 27 28 29 30 31    29 30                  27 28 29 30 31

```

```

Quick connect... 5. 192.168.1.110 (root) 6. 192.1
[root@nfs-server ~]# vim /etc/exports

Sessions
Quick connect... 5. 192.168.1.110 (root)
/public 192.168.1.110(ro,sync)
/private 192.168.1.110(rw,sync)
~
~
~

```

```

[root@nfs-server ~]# exportfs -arvf
exporting 192.168.1.110:/private
exporting 192.168.1.110:/public
exporting 192.168.1.110:/private to kernel
exportfs: 192.168.1.110:/private: Function not implemented
exporting 192.168.1.110:/public to kernel
exportfs: 192.168.1.110:/public: Function not implemented
[root@nfs-server ~]#
```

# Add Services in the firewall



```
[root@nfs-server ~]# firewall-cmd --permanent --add-service=nfs
success
[root@nfs-server ~]# firewall-cmd --permanent --add-service=rpc-bind
success
[root@nfs-server ~]# firewall-cmd --permanent --add-service=mountd
success
[root@nfs-server ~]# firewall-cmd --reload
success
[root@nfs-server ~]# systemctl start nfs
nfs-blkmap.service    nfs-idmap.service    nfs-mountd.service    nfs-server.service
nfs-config.service    nfs-lock.service     nfs-rquotad.service    nfs.service
nfs-idmapd.service    nfslock.service      nfs-secure.service     nfs-utils.service
[root@nfs-server ~]# systemctl start nfs-server.service
[root@nfs-server ~]# systemctl enable nfs-server.service
Created symlink from /etc/systemd/system/multi-user.target.wants/nfs-server.service to /usr/lib/systemd/system/nfs-server.service.
[root@nfs-server ~]#
```

```
root@nfs-server ~]# systemctl status nfs-server.service
nfs-server.service - NFS server and services
Loaded: loaded (/usr/lib/systemd/system/nfs-server.service; enabled; vendor preset: disabled)
Drop-In: /run/systemd/generator/nfs-server.service.d
└─order-with-mounts.conf
Active: active (exited) since Sun 2020-04-05 11:40:32 IST; 23s ago
Main PID: 4079 (code=exited, status=0/SUCCESS)
CGroup: /system.slice/nfs-server.service

apr 05 11:40:32 nfs-server systemd[1]: Starting NFS server and services...
apr 05 11:40:32 nfs-server systemd[1]: Started NFS server and services.
root@nfs-server ~]#
```

## # head to NFS client

```
[root@nfs-client ~]# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP qlen 1000
    link/ether 00:0c:29:48:0a:cc brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.110/24 brd 192.168.1.255 scope global dynamic ens33
        valid_lft 85389sec preferred_lft 85389sec
    inet6 fe80::e4d6:3286:d595:376d/64 scope link
        valid_lft forever preferred_lft forever
3: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN qlen 1000
    link/ether 52:54:00:17:8b:88 brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0
        valid_lft forever preferred_lft forever
4: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr0 state DOWN qlen 1000
    link/ether 52:54:00:17:8b:88 brd ff:ff:ff:ff:ff:ff
```

```
[root@nfs-client yum.repos.d]# yum repolist
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
repo id                                repo name                                status
localrepo                              localrepo                                3,894
repolist: 3,894
[root@nfs-client yum.repos.d]#
```

## # install Autofs package with help of localRepo @ client machine

```
[root@nfs-client yum.repos.d]# yum install -y autofs
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
Resolving Dependencies
--> Running transaction check
--> Package autofs.x86_64 1:5.0.7-69.el7 will be installed
--> Processing Dependency: libhesiod.so.0()(64bit) for package: 1:autofs-5.0.7-69.el7.x86_64
--> Running transaction check
--> Package hesiod.x86_64 0:3.2.1-3.el7 will be installed
--> Finished Dependency Resolution
```

```

Installing:
  autofs          x86_64          1:5.0.7-69.el7          localrepo          808 k
Installing for dependencies:
  hesiod          x86_64          3.2.1-3.el7            localrepo          30 k

Transaction Summary
=====
Install 1 Package (+1 Dependent package)

Total download size: 838 k
Installed size: 5.1 M
Downloading packages:
-----
Total                               2.7 MB/s | 838 kB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : hesiod-3.2.1-3.el7.x86_64                                1/2

```

```

[root@nfs-client yum.repos.d]# rpm -qi autofs
Name       : autofs
Epoch     : 1
Version    : 5.0.7
Release    : 69.el7
Architecture: x86_64
Install Date: Sunday 05 April 2020 11:43:56 AM IST
Group      : System Environment/Daemons
Size       : 5280794
License    : GPLv2+
Signature  : RSA/SHA256, Thursday 10 August 2017 08:33:22 PM IST, Key ID 24c6a8a7f4a80eb5
Source RPM : autofs-5.0.7-69.el7.src.rpm
Build Date : Friday 04 August 2017 06:35:13 PM IST
Build Host : clbm.rdu2.centos.org
Relocations : (not relocatable)
Packager   : CentOS BuildSystem <http://bugs.centos.org>
Vendor     : CentOS
Summary    : A tool for automatically mounting and unmounting filesystems
Description:
root@nfs-client yum.repos.d]# mkdir /automount
root@nfs-client yum.repos.d]# vim /etc/auto.master

```

```

# Sample auto.master file
# This is a 'master' automounter map and it has the following format:
# mount-point [map-type[,format]:]map [options]
# For details of the format look at auto.master(5).
#
/misc    /etc/auto.misc
automount /etc/automount.txt --timeout=60
#
# NOTE: mounts done from a hosts map will be mounted with the
#       "nosuid" and "nodev" options unless the "suid" and "dev"
#       options are explicitly given.
#
/net     -hosts
#
# Include /etc/auto.master.d/*.autofs
# The included files must conform to the format of this file.
#
+dir:/etc/auto.master.d
#
# Include central master map if it can be found using
# nsswitch sources.
#
# this will umount if is not I use

```

```

[root@nfs-client yum.repos.d]# vim /etc/automount.txt

```



```
public -ro, sync 192.168.1.109:/public
private -rw, sync 192.168.1.109:/private
```

```
[root@nfs-client automount]# mkdir -p /automount/public ; mkdir -p /automount/private
[root@nfs-client automount]# ll
total 0
drwxrwxrwx. 2 root root 28 Apr  5 11:37 private
drwxrwxrwx. 2 root root 27 Apr  5 11:36 public
[root@nfs-client automount]#
```

```
[root@nfs-client yum.repos.d]# systemctl start autofs
[root@nfs-client yum.repos.d]# systemctl enable autofs
Created symlink from /etc/systemd/system/multi-user.target.wants/autofs.service to /usr/lib/systemd/s
ystem/autofs.service.
[root@nfs-client yum.repos.d]# systemctl status autofs
● autofs.service - Automounts filesystems on demand
   Loaded: loaded (/usr/lib/systemd/system/autofs.service; enabled; vendor preset: disabled)
   Active: active (running) since Sun 2020-04-05 11:50:47 IST; 15s ago
     Main PID: 4437 (automount)
       CGroup: /system.slice/autofs.service
               └─4437 /usr/sbin/automount --pid-file /run/autofs.pid

Apr 05 11:50:45 nfs-client automount[4437]: master_add_map_source: map source used without taki...nce
Apr 05 11:50:45 nfs-client automount[4437]: master_add_map_source: map source used without taki...nce
Apr 05 11:50:45 nfs-client automount[4437]: open_sss_lib:78: lookup(sss): failed to open /usr/l...ory
Apr 05 11:50:47 nfs-client automount[4437]: problem reading master map, maximum wait exceeded
Apr 05 11:50:47 nfs-client automount[4437]: /usr/sbin/automount: warning: could not read at lea.....
Apr 05 11:50:47 nfs-client automount[4437]: master_add_map_source: map source used without taki...nce
Apr 05 11:50:47 nfs-client automount[4437]: master_add_map_source: map source used without taki...nce
Apr 05 11:50:47 nfs-client automount[4437]: master_add_map_source: map source used without taki...nce
Apr 05 11:50:47 nfs-client automount[4437]: open_sss_lib:78: lookup(sss): failed to open /usr/l...ory
Apr 05 11:50:47 nfs-client systemd[1]: Started Automounts filesystems on demand.
```

```
root@nfs-client yum.repos.d]# cd
root@nfs-client ~]# df -hT
filesystem                                Type      Size  Used Avail Use% Mounted on
dev/mapper/centos-root                    xfs       17G   4.0G   14G   24% /
devtmpfs                                  devtmpfs  473M    0    473M    0% /dev
tmpfs                                      tmpfs     489M    0    489M    0% /dev/shm
tmpfs                                      tmpfs     489M  7.2M   482M    2% /run
tmpfs                                      tmpfs     489M    0    489M    0% /sys/fs/cgroup
dev/sda1                                   xfs     1014M  161M   854M   16% /boot
tmpfs                                      tmpfs      98M   28K    98M    1% /run/user/0
dev/sr0                                    iso9660    4.3G  4.3G    0 100% /mnt
root@nfs-client ~]# mount -a
root@nfs-client ~]#
```

```

[root@nfs-client ~]# cd /automount/
[root@nfs-client automount]# cd public/
[root@nfs-client public]# df -hT

```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/centos-root	xfs	17G	4.0G	14G	24%	/
devtmpfs	devtmpfs	473M	0	473M	0%	/dev
tmpfs	tmpfs	489M	0	489M	0%	/dev/shm
tmpfs	tmpfs	489M	7.2M	481M	2%	/run
tmpfs	tmpfs	489M	0	489M	0%	/sys/fs/cgroup
/dev/sda1	xfs	1014M	161M	854M	16%	/boot
tmpfs	tmpfs	98M	28K	98M	1%	/run/user/0
/dev/sr0	iso9660	4.3G	4.3G	0	100%	/mnt
192.168.1.109:/public	nfs4	17G	9.1G	8.0G	54%	/automount/public

```

[root@nfs-client public]#

```

```

[root@nfs-client public]# cd ..
[root@nfs-client automount]# cd private
[root@nfs-client private]# df -hT

```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/centos-root	xfs	17G	4.0G	14G	24%	/
devtmpfs	devtmpfs	473M	0	473M	0%	/dev
tmpfs	tmpfs	489M	0	489M	0%	/dev/shm
tmpfs	tmpfs	489M	7.2M	481M	2%	/run
tmpfs	tmpfs	489M	0	489M	0%	/sys/fs/cgroup
/dev/sda1	xfs	1014M	161M	854M	16%	/boot
tmpfs	tmpfs	98M	28K	98M	1%	/run/user/0
/dev/sr0	iso9660	4.3G	4.3G	0	100%	/mnt
192.168.1.109:/public	nfs4	17G	9.1G	8.0G	54%	/automount/public
192.168.1.109:/private	nfs4	17G	9.1G	8.0G	54%	/automount/private

```

[root@nfs-client private]#

```

```

[root@nfs-client private]# ll
total 4
-rw-r--r--. 1 root root 1963 Apr  5 11:37 calprivate.txt
[root@nfs-client private]# cat
^C
[root@nfs-client private]#

```

```

[root@nfs-client private]# ll
total 4
-rw-r--r--. 1 root root 1963 Apr  5 11:37 calprivate.txt
[root@nfs-client private]# rm calprivate.txt
rm: remove regular file 'calprivate.txt'? y
[root@nfs-client private]# ll
total 0
[root@nfs-client private]#

```

# server

```

root@nfs-client private]# cd ..
root@nfs-client automount]# cd public
root@nfs-client public]# ll
total 4
-rw-r--r--. 1 root root 142 Apr  5 11:36 calpublic.txt
root@nfs-client public]# cat
C
root@nfs-client public]# cat calpublic.txt
April 2020
Su Mo Tu We Th Fr Sa
      1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30

```

#### # Cannot create / rm files in Public .. READ ONLY

```

[root@nfs-client public]# rm calpublic.txt
rm: remove regular file 'calpublic.txt'? y
rm: cannot remove 'calpublic.txt': Read-only file system
[root@nfs-client public]# touch a b
touch: cannot touch 'a': Read-only file system
touch: cannot touch 'b': Read-only file system
[root@nfs-client public]# mkdir aa bb
mkdir: cannot create directory 'aa': Read-only file system
mkdir: cannot create directory 'bb': Read-only file system
[root@nfs-client public]# cal > cal
-bash: cal: Read-only file system
[root@nfs-client public]#

```

#### # But in Pvt . You can create/ del filesystem + Dir as its Read/ Write file System

```

[root@nfs-client public]# cd ..
[root@nfs-client automount]# cd private
[root@nfs-client private]# ll
total 0
[root@nfs-client private]# touch a b
[root@nfs-client private]# ll
total 0
-rw-r--r--. 1 nfsnobody nfsnobody 0 Apr  5 12:10 a
-rw-r--r--. 1 nfsnobody nfsnobody 0 Apr  5 12:10 b
[root@nfs-client private]# mkdir aa bb
[root@nfs-client private]# ll
total 0
-rw-r--r--. 1 nfsnobody nfsnobody 0 Apr  5 12:10 a
drwxr-xr-x. 2 nfsnobody nfsnobody 6 Apr  5 12:10 aa
-rw-r--r--. 1 nfsnobody nfsnobody 0 Apr  5 12:10 b
drwxr-xr-x. 2 nfsnobody nfsnobody 6 Apr  5 12:10 bb
[root@nfs-client private]#

```



```
[root@nfs-client private]# df -hT
```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/centos-root	xfs	17G	4.0G	14G	24%	/
devtmpfs	devtmpfs	473M	0	473M	0%	/dev
tmpfs	tmpfs	489M	0	489M	0%	/dev/shm
tmpfs	tmpfs	489M	7.2M	481M	2%	/run
tmpfs	tmpfs	489M	0	489M	0%	/sys/fs/cgroup
/dev/sda1	xfs	1014M	161M	854M	16%	/boot
tmpfs	tmpfs	98M	28K	98M	1%	/run/user/0
/dev/sr0	iso9660	4.3G	4.3G	0	100%	/mnt
192.168.1.109:/public	nfs4	17G	9.1G	8.0G	54%	/automount/public
192.168.1.109:/private	nfs4	17G	9.1G	8.0G	54%	/automount/private

```
[root@nfs-client private]#
```

# Wait for 60sec , umounted or not

```
[root@nfs-client private]# cd
[root@nfs-client ~]#
```

```
[root@nfs-client ~]# df -hT
```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/centos-root	xfs	17G	4.0G	14G	24%	/
devtmpfs	devtmpfs	473M	0	473M	0%	/dev
tmpfs	tmpfs	489M	0	489M	0%	/dev/shm
tmpfs	tmpfs	489M	7.2M	481M	2%	/run
tmpfs	tmpfs	489M	0	489M	0%	/sys/fs/cgroup
/dev/sda1	xfs	1014M	161M	854M	16%	/boot
tmpfs	tmpfs	98M	28K	98M	1%	/run/user/0
/dev/sr0	iso9660	4.3G	4.3G	0	100%	/mnt

```
[root@nfs-client ~]#
```

# But once go inside Auto Dir .. it get automatically mount

```
[root@nfs-client ~]# cd /automount/
[root@nfs-client automount]# cd private
[root@nfs-client private]# df -hT
```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/centos-root	xfs	17G	4.0G	14G	24%	/
devtmpfs	devtmpfs	473M	0	473M	0%	/dev
tmpfs	tmpfs	489M	0	489M	0%	/dev/shm
tmpfs	tmpfs	489M	7.2M	481M	2%	/run
tmpfs	tmpfs	489M	0	489M	0%	/sys/fs/cgroup
/dev/sda1	xfs	1014M	161M	854M	16%	/boot
tmpfs	tmpfs	98M	28K	98M	1%	/run/user/0
/dev/sr0	iso9660	4.3G	4.3G	0	100%	/mnt
192.168.1.109:/private	nfs4	17G	9.1G	8.0G	54%	/automount/private

```
[root@nfs-client private]#
```