

Basic exercises : NFS automounter

In this exercise we setup the automounter so that when a user logs in to the NFS client, the login directory of that user is automatically mounted to the NFS-server's /home/ environment.

First stop firewalld and set SELinux to permissive

```
[root@centos_server ~]# systemctl stop firewalld  
[root@centos_server ~]# systemctl disable firewalld  
[root@centos_server ~]# setenforce 0
```

On the NFS server create a user and share /home  
Note: the user should have the same id on all machines

```
[root@centos_server ~]# useradd -m user7 -u 1007  
[root@centos_server ~]# echo "/home *(rw)" >> /etc/exports
```

Start the NFS server and check the exports

```
[root@centos_server ~]# systemctl enable nfs-server  
[root@centos_server ~]# systemctl start nfs-server  
[root@centos_server ~]# exportfs  
/home <world>
```

On the client, add the user with the same uid  
[root@centos7-7 ~]# **useradd -m user7 -u 1007**

Install autofs and setup auto.master and auto.home

```
[root@centos7-7 ~]# yum install autofs  
[root@centos7-7 ~]# echo "/home /etc/auto.home" >> /etc/auto.master  
[root@centos7-7 ~]# echo "* -fstype=nfs,rw,nosuid,soft 192.168.4.229:/home/&" >> /etc/auto.home
```

Enable autofs and start autofs

```
[root@centos7-7 ~]# systemctl enable autofs  
[root@centos7-7 ~]# systemctl start autofs
```

Switch user to user7 on the Client and create a file.

```
[root@centos7-7 ~]# su - user7  
[user7@centos7-7 ~]$ touch newfile
```

On the server, check that the file was created in /home/user7

```
[user7@centos7-7 ~]$ ls /home/user7  
newfile
```