

INTERLAB

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ISSUE: make NFS share

OS : Linux 1 2.6.x

Vernouillet, 2.06.2010

Issue:

Share data between Linux systems, without using Samba share. Is possible by using NFS.

1. First install NFS Server:

```
apt-get install nfs-kernel-server
```

2. Create a director dedicated to the share

Example:

```
max@pingu-lab:/root$ cd /home/max/  
max@pingu-lab:~$ mkdir nfs_share
```

Actual dedicated directory will be nfs_share

3. Edit /etc/exports

/etc/exports file hosts all shares of the machine

```
root@pingu-lab:/etc# jed /etc/exports  
  
# /etc/exports: the access control list for filesystems which may be exported  
#                 to NFS clients.  See exports(5).  
##  
/home/max/nfs_share    *(rw, sync, no_subtree_check)
```

4. Export the shares

This command will export all valid shares present in /etc/exports

```
root@pingu-lab:/etc# exportfs -ra
```

Eventually you can restart the service it will have the same effect.

```
root@pingu-lab:/etc# /etc/init.d/nfs-kernel-server restart
```

At this time share is created on the server side. You now need to mount it on client side.

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On Client side, or you wish to mount it as PERMANENT share, then it needs to be added to FSTAB, or it can be mounted manually, it will remain till system is rebooted.

1. Create a directory where to mount the Remote share.

Example: `mkdir /home/dav/test`

Manual mount:

`Sudo mount 192.168.1.138:/home/max/nfs_share /home/dav/test`

FSTAB Mount:

```
stargate:~# cat /etc/fstab
# /etc/fstab: static file system information.
#
# <file system> <mount point> <type> <options> <dump> <pass>
proc /proc proc defaults 0 0
/dev/md0 / ext3 defaults,errors=remount-ro 0 1
/dev/md4 /home ext3 defaults 0 2
/dev/md3 /tmp ext3 defaults 0 2
/dev/md1 /usr ext3 defaults 0 2
/dev/md2 /var ext3 defaults 0 2
/dev/md5 none swap sw 0 0
/dev/scd0 /media/cdrom0 udf,iso9660 user,noauto 0 0
/dev/hda /media/cdrom1 udf,iso9660 user,noauto 0 0

# NFS mounts from remote hosts
## montage repertoire panoramix
panoramix: /home/max/nfs_share /home/dav/test nfs
panoramix:/home/samba/p0/ftp /mnt/ftp nfs
```

to update all mounts as root type:

`mount -all`

NOTE that it is not necessary to reboot the system at any time

Pls. send us your feedback.

Rev.1 – David