

Configuring a NFS Client

LPIC-2: Linux Engineer (202-450)

Objectives:

At the end of this episode, I will be able to:

1. Install the NFS client tools in Linux.
2. Connect to an NFS share from the Linux command line.

Additional resources used during the episode can be obtained using the download link on the overview episode.

• Installation steps

1. Install NFS (if necessary)

- `sudo apt install nfs-common`

2. Enable and Start *rpcbind* (Optional)

- `sudo systemctl enable --now rpcbind`

• Testing the NFS client

- Usually works out of the box
- May be blocked by firewall
- `showmount -e 10.0.222.51`

• Temporarily mounting an NFS share

- `sudo mkdir /mnt/files /mnt/reports`
- `sudo mount -t nfs 10.0.222.51:/srv/nfs/files /mnt/files`
- `sudo mount -t nfs 10.0.222.51:/srv/nfs/reports /mnt/reports`

• Permanently mounting an NFS share

- Add to *fstab* to mount during boot
- `sudoedit /etc/fstab`
- `<server_ip>:/share /mnt/share nfs defaults,rw,sync 0 0`
- `10.0.222.51:/srv/nfs/files /mnt/files nfs defaults,rw,sync 0 0`

• Testing NFS mounts

- Treat it like a normal file system
 - `mount`
 - `df -h`
 - `touch /mnt/share/file.txt`