Configuring a NFS Client

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`