

## **Outline of Lab Work for Computer Networking & Systems Administration**

You are provided with a logbook/checklist for the work done in the lab. It should note both the successes and failures of your work. It should also contain details of your hardware and changes that you make to your system and its files.

### **Phase One: You should expect to be able to**

- Identify the hardware in your computer, especially the SCSI interface card, the network interface card and the graphics chipset.

#### **Hardware Details:**

- Install Linux using nfs from the server. This includes partitioning the drive, noting your partitioning in your logbook and installing appropriate software including kernel source and C compiler.

#### **Partitioning Details and reasons for your decisions:**

## Install Summary:

- Familiarise yourself with the Linux environment, create user accounts for each member of your team and understand the difference between User access and Root access. Explore the file system and its layout. Use the `mount` command and be able to edit `/etc/fstab`

### Notes :

- Understand the boot process, the role of `/etc/inittab`, the role of the scripts in `/etc/sysconfig` and `/etc/rc.d`.

### Notes :

- Set up a Window Manager, enable and disable XDM and be able to switch between the window manager and the command line terminals. (optional). This will require the X server to be installed and set up. Due to space limitations it is suggested that use the OpenLook Virtual Window Manager (olvwm). Try editing the olvwm menus. Where are they?

**X setup notes :**

- Work through the 'Network Tools' worksheet and understood how to use these tools for isolating or identifying network problems.

**Results :**

- Have used and understood the mount command to manually mount filesystems and to have edited `/etc/fstab` to add filesystems. Set up mount points for VFAT format floppy disks, EXT2 disks and NFS.

**Details:**

- Have created and tested a `/etc/hosts` file. Add named entries for colleagues machines. How important is this file? What is the impact of DHCP on this file?

**Notes:**

- Recompiled the kernel, installed and tested it. (optional).
- Create a boot floppy and recovery disk and used them to repair/recover your system. (optional).

**Notes:**

- Mounting a remote file-system and installing packages from the remote system

**Notes:**

- Installing and running nfsd ( NFS Server ) with a non-permissive exports file

**Notes:**

**Phase Two: You should be able to have completed**

- Installation and set-up of at least one of the following :
  - Web Server with a Home Page for your machine/group
  - Anonymous FTP Server with its own directory tree built by hand.

**Notes:**

