

Other Information	
<b>LNA4</b>	
<b>Days</b>	4
<b>Starting Time</b>	9:00
<b>Finish Time</b>	4:30
Lunch & refreshments are included with this course.	



**Level 3, 85 Queen St  
Melbourne 3000**

**Ph: + 61 3 9600 3600**

**Fax: +61 3 9600 3611**

## Linux Network Administration 4

### Course Description

This course (LNA4) is aimed at those already familiar with networking basics but with little or no Linux/Unix specific knowledge. The course is ideal for:

- Windows administrators looking to use and integrate Linux solutions
- Administrators who have inherited existing systems involving Linux based servers and need to evaluate, maintain and secure these systems
- People who have some minor Linux experience but are looking to broaden and cover the gaps in their knowledge

LNA4 is a hands-on, practical course. Students will set up a real network, running a variety of services during the course, and gain a thorough understanding of operating a Linux server system in a comfortable time frame.

The course illustrates not only the practicalities of running network services under Linux, but the reasoning behind the design of these OS's, security concerns, and information on interoperating with other systems. Students receive real world tips and advice from Mike MacCana, an experienced Linux system administrator, co-author of two *APC Linux pocketbooks* and *PC Authority* magazine's Linux columnist.

The course uses Red Hat Linux as the basis for its examples, but is generally applicable to all Linux Standards Base distributions. The course is vendor neutral and advocates the best solution for the job. Where Red Hat's provided tools or services aren't the best for a given task, alternatives are covered.

Over four days each student will run their own servers handling mail, file and print, web serving, web proxying, FTP, and a wide variety of other services and act as clients to their partners services. The aim is to make students feel as comfortable as possible setting up network services on Linux and provide them with real, practical skills they can take with them.

The course is designed around the LPI 101 and 102 exams. Students have the option to take the exams at their own leisure and upon passing will receive Linux Professional Institute Level 1 certification.

### Included in the course

- 4 full days of hands-on Linux Administration training at Advanced Training's premises in the Melbourne CBD.
- Printed courseware, including a quick reference guide and glossary.
- Course CDROM, including full notes in electronic form, overheads, sample scripts, and additional packages.
- A Certificate of Attendance upon completing the training.

## Linux Network Administration 4

### ➤ **Module 1 - Introducing Linux**

- Differences between Linux and Windows
- Users and Groups, moving around the system
- Storage under Linux
- Joining a Network

### ➤ **Module 2 - Linux Installation**

- Pre Installation Checklist
- Installation
- Post-installation checklist

### ➤ **Module 3 - Installing, Uninstalling and Upgrading Software**

- About Packages and RPM
- Automating RPM with Up2date, Packages and APT
- Building and Packaging Custom Kernels

### ➤ **Module 4 - Runlevels and Services**

- Introducing Runlevels
- Introducing Services
- Starting and Stopping Services on the Fly
- Adding A Service to a Runlevel
- Common Services

### ➤ **Module 5 - Networking**

- The OSI Model
- TCP/IP Explained
- Network Services

### ➤ **Module 6 - Configuring Network Services**

- Introduction
- Web Serving
- FTP Serving
- Web Proxy Cache
- DNS Cache / DNS Serving
- Mail Serving
- DHCP
- Windows File and Print Sharing
- NIS
- NFS
- SSH

### ➤ **Module 7 -Defining Security**

- Backups and Recovery
- Using Rescue Mode
- Firewalling
- Defending Against Malicious Users

### ➤ **Module 8 - Tips and Tricks**

- Task Scheduling
- Logging with Syslog
- Delegating Permissions with Sudo
- Using your Environment Efficiently
- Handy Commands For Shell Scripting

