



Linux for IT Managers and System Administrators Training Workshop

Dates: 4th—6th May 2011

Venue: Futuristic Labs, Woodlands Road

Futuristic
Understand | Advise | Deliver

Call Now- +254202729313 / +254720349420 Or Register Online at <http://tinyurl.com/5toxjeh>

About The Course

This course seeks to provide relevant Linux system administration and network administration skills to participants to enable them manage UNIX based systems operating environments. It also effectively prepares a student for the final exam necessary for LPI Certification. (www.lpi.org). The topics covered in this course include Shell Scripting, User Administration Tasks, Printer Administration, Documentation, Booting Linux, Startup and Shutdown, Configuring Printers, Linux Networking and Network Services, X Windows System, Security, Kernel modules, and customising the Linux Kernel.

This course requires previous computer knowledge, but not necessarily in Linux. Programmers, novice System Administrators, and new users of Linux looking for comprehensive Linux instruction, Users who need to know Linux for efficient operation of a Linux-based applications will benefit from this course.

This workshop will answer questions on how one can; Configure and install various Linux Servers including web servers (APACHE), DNS Servers (BIND), File Servers (SAMBA), DHCP Servers, Internet Proxies (SQUID), Email Gateways (Postfix/ sendmail with spam filters and antivirus filtering), Secure Linux Systems (Hardening, SSH and Encryption), Managing Linux Networks Services, Use Linux to implement firewalls and to perform routing, Write BASH Scripts and Shell Programming, among others. Upon completion of this course, students will be prepared to competently maintain a Linux system in a networked business environment.

Course Objectives

The course will meet three vital objectives for personnel working in IT Managerial and System Administration roles:

- The course provides an in-depth technical knowledge of what is required to administer Linux within the Enterprise.
- The course exposes delegates to the practical experience of configuring administrative, networking and security aspects of a Linux Enterprise system to an advanced level.
- The course will prepare delegates with the essential knowledge required to study towards achieving the LPI certifications.

Course Prerequisites

- This course requires previous computer knowledge, but not necessarily in Linux .
- It requires basic skills in Linux usage.

Summarized Course Plan

DAY	8.30 AM – 10.30 AM	11.00 AM – 1.00 PM	2.00 PM – 3.30 PM	3.45 PM– 5.00 PM
1	Introduction Hardware & Architecture	Linux Installation & Package Management	Linux Kernel	Lab Work
2	Text Editing, Processing & Printing	Shell Scripting, Programming & Compiling	X Window	Lab Work
3	Networking Fundamentals	Network Services	Installing & Configuring Linux Servers (Web, File, DNS, DHCP)	Security

Course Outline

DAY	TIME	TOPICS	OBJECTIVES
1	8.30 AM – 9.00 AM	Introduction	Assess course expectations from the participants Outline Course objectives which include the following: <ul style="list-style-type: none">• Be able to cover LPI exams and obtain certification as proof of skills by the trainers• Outline the roadmap to obtaining certifications
	9.00 AM – 10.30 AM	Hardware Architecture	Configure Fundamental System Hardware: Modems, Sound Card Set Up SCSI and NIC Devices
	11.00 AM – 1.00 PM	Linux Installation and Package Management	Design a Hard Disk Layout Install a Boot Manager Make and Install Programs from Source Manage Shared Libraries Use Debian and Redhat Package Management
	2.00 PM – 3.30 PM	Linux Kernel	Manage Kernel Modules at Runtime Reconfigure, Build and Install a Custom Kernel and Modules
	3.45 PM – 5.00 PM	Lab Work	End of day Lab Work
2	8.30 AM – 10.30 AM	Text Editing, Processing and Printing	Perform Basic File Editing Operations using vi Manage Printers and Print Queues, Print Files Install and Configure Local and Remote Printers
	11.00 AM – 1.00 PM	Shell Scripting, Programming and Compiling	Customize and Use the Shell Environment Customize or Write Simple Scripts
	2.00 PM – 3.30 PM	X Window	Install and Configure XFree86, Set Up xdm Identify and Terminate Runaway X Applications Install and Customize a Window Manager Environment
	3.45 PM – 5.00 PM	Lab Work	End of day Lab Work
3	8.30 AM – 10.30 AM	Networking Fundamentals	Fundamentals of TCP/IP, TCP/IP Troubleshooting and Configuration Configure and Manage PPP, inetd and Related Services
	11.00 AM – 1.00 PM	Network Services	Operate and Perform Basic Configuration of Sendmail with spamfilters and antivirus filtering Properly Manage the NFS,SMB and NMB Daemons Set Up and Configure Basic DNS Services
	2.00 PM – 3.30 PM	Installing and Configuring Linux Servers	Installing and Configuring Sendmail/Postfix MTAs, SQUID Proxy Server, DHCP Server, BIND, Apache, SAMBA and webmin
	3.45 PM – 5.00 PM	Security	Perform Security Administration Tasks Set Up Host Security, Set Up User-Level Security Hardening, SSH and encryption Setting up an IPTable Firewall Installing and Configuring Snort Intrusion Detection System

Course Special Features

- **Targeted Tracks:** You will benefit from the expertise of industry front-runners, learn from real-world case studies and leave with everything you need to know to administer and manage a Linux/ Unix Environment
- **Tangible Take-Aways** will be given to you including a Course handbook and two CD-ROMs (A Linux Distribution and video tutorials on performing various activities using Linux)
- **Optimum networking opportunities** are available through breaks, receptions, and luncheons. You will have the opportunity to talk shop with information technology professionals and you will return to the office with new ideas and fresh contacts.

What Others Say

- “The facilitators were very knowledgeable with hands on expertise in all areas throughout the training course. Futuristic is the way to go...” Festus W. Ronoh—KEMRI
- “Generally I appreciate your programs. Do not end up there, keep the fire burning!.” Mr. Dotto Mfaume President’s Office IT dept.



Course Deliverables

By the end of the course the participant will have learnt how to:

- Install and make own custom kernels
- Configure and install various Linux Servers including web servers (APACHE), DNS Servers (BIND), File Servers (SAMBA), DHCP Servers, Internet Proxies (SQUID), Email Gateways (Postfix/ sendmail with spam filters and antivirus filtering)
- Secure Linux Systems (Hardening, SSH and Encryption)
- Managing Linux Networks Services
- Use Linux to implement firewalls and to perform routing
- Write BASH Scripts and Shell Programming

Why Train at Futuristic

- An industry leader in IT Solutions with highly qualified instructors.
- We offer very practical and hands-on course that focuses on giving you practical and real life knowledge that you can immediately apply at your place of work
- Fully equipped state of the art Lab.
- We will give you an opportunity to interact with other industry leaders where you can learn and share experiences.
- We will provide you with a Linux Live CD, the GO-OPEN SOURCE CD with a collection of applications that you can immediately deploy in your organization.

Target Audience

- IT Managers
- Technical IT professionals (System Administrators, Network Administrators & Support, Technical Specialists, Software Developers etc)
- IT Security Professionals
- Technical Support Staff
- Computer Science Students
- Microsoft Professionals seeking to add skills in Linux
- New Users seeking comprehensive Linux instruction

Course Fees

The registration fee for this course is KShs. 45,000 and includes the Course handbook and two CD-ROMs (A Linux Distribution and video tutorials on performing various activities using Linux), administrative costs, meals and refreshments during the course.



Venue

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Futuristic
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Early Registration Promotion

Be among the first ten (10) people to register and automatically get a 10 % discount on the course fees. You could also win an extra free course of your choice. Log on to <http://tinyurl.com/5toxjeh> for more information and to register online.