



RUSHIL TECHNOLOGIES

A unit of

Krishko telecom services pvt.ltd

An ISO 9001:2008 certified company

Linux training course content

Part 1 Planning and Installation

1. Introductions and Overview

- ✓ Linux components
- ✓ Comparing Linux distributions
- ✓ Obtaining free software from the Internet
- ✓ Designing a mission-critical server for use in a multi-vendor environment
- ✓ Linux distributions
- ✓ Selecting the hardware
- ✓ Understanding your hardware
- ✓ Installation planning

2. Installing Linux

- ✓ Designing the installation
- ✓ Evaluating automated installations
- ✓ Planning custom installations
- ✓ Organizing disk layout
- ✓ Selecting an installation method
- ✓ Making the boot disk
- ✓ Booting the installation program
- ✓ Disk partitioning
- ✓ Defining mount points
- ✓ Formatting partition
- ✓ Installing the software.

3. Performing the installation

- ✓ Selecting internationalization settings
- ✓ Choosing software packages
- ✓ Monitoring the installation process
- ✓ Post-installation tasks

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4. The Boot Process

- ✓ Loading the boot sector
- ✓ Loading the kernel with LILO
- ✓ The Linux boot prompt
- ✓ Hardware device driver initialization
- ✓ Loading Linux services
- ✓ Start up scripts
- ✓ Loadable modules

5. Basic Commands

- ✓ Understanding shells
- ✓ Understanding shell variables
- ✓ Understanding processes

Part 2 Internet server operations

Performing System Administration

- ✓ Administering the server
- ✓ Correcting installation problems
- ✓ Setting up user accounts
- ✓ Connecting to the network
- ✓ Configuring utilities

Configuring a Mail Server

- ✓ Using mail aliases
- ✓ Using send mail to receive mail
- ✓ The send mail configuration file
- ✓ Using m4 to configure send mail
- ✓ Compiling and installing send mail

The Apache Web Server

- ✓ Installing apache
- ✓ Configuring the apache server
- ✓ Managing your web server
- ✓ Creating web content

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Maintaining the system

- ✓ Examining the boot process
- ✓ Logging system events
- ✓ Managing software packages
- ✓ Verifying software with digital signatures
- ✓ Adding disk partitions and file systems

Implementing File and Print Services

- ✓ Sharing file systems across the network
- ✓ Linux-to-Windows shares with Samba
- ✓ Exporting with NFS
- ✓ Controlling exports with graphical configuration tools

Providing print services to Windows, UNIX, Mac OS and others

- ✓ Berkeley (BSD) printing system
- ✓ Printing with Common UNIX Printing System (CUPS)
- ✓ Sharing printers to the Windows network neighborhood
- ✓ Selecting printer drivers
- ✓ Web-based printer and print queue administration

Login Services

- ✓ Starting services with Internet
- ✓ Creating user accounts
- ✓ Understanding login security

Linux Name Services

- ✓ The host files
- ✓ Understanding DNS
- ✓ The bind software
- ✓ Configuring a domain name server
- ✓ Running named

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Providing Mission-Critical Intranet and Internet Services

- ✓ Implementing DNS with BIND 9
- ✓ Writing zone files
- ✓ Transferring zone information to secondary servers
- ✓ Caching non-authoritative information about other zones
- ✓ Transferring bulk data with FTP
- ✓ Extending FTP capabilities with wu-ftpd
- ✓ Setting up anonymous FTP service
- ✓ Serving Web pages with HTTP
- ✓ Installing Apache
- ✓ j. Supporting multiple Web sites on one Linux server with virtual hosting
- ✓ k. Delivering mail to reliable servers using ESMTP
- ✓ l. Setting up a mail transfer agent
- ✓ m. Preventing unacceptable open relay behavior

Customizing The Linux Kernel

- ✓ The anatomy of the kernel
- ✓ The kernel source tree structure
- ✓ Device drivers
- ✓ File systems
- ✓ Loadable modules
- ✓ Generic kernels
- ✓ Building a new kernel
- ✓ Stable vs. experimental releases
- ✓ Selecting required kernel components
- ✓ Improving kernel efficiency with loadable modules
- ✓ Customizing the kernel for specific tasks
- ✓ Installing the kernel
- ✓ Vital safety precautions you need to take before and during installation
- ✓ Recovering from a bad kernel
- ✓ Detecting and correcting system administration errors

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Improving Network Security

- ✓ Defining firewall rules
- ✓ Establishing secure network connections with SSH, SSL and IPsec
- ✓ Detecting unauthorized system changes with Tripwire
- ✓ Network Gateway Services
- ✓ Understanding routing
- ✓ Defining static routes
- ✓ Using dynamic routing
- ✓ Network address translation

Other information services

- ✓ POP
- ✓ IMAP
- ✓ NNTP