

Chapter 1: Online Documentation
You will learn: <ul style="list-style-type: none">• Help commands.• Derivatives of the man command.
Chapter 2: UNIX Startup and Shutdown
You will learn: <ul style="list-style-type: none">• Bootstrapping.• Startup scripts and run levels.• Boot configuration and troubleshooting.• System shutdown.• LILO.• Sync.• Run levels.
Chapter 3: Kernel
You will learn: <ul style="list-style-type: none">• Fundamentals of the Linux operation system.• Linux concepts and terminology.• Major subsystems in Linux.• Memory management.• Process control in Linux.• Device drivers.• Architecture-dependent code.
Chapter 4: Managing Processes
You will learn: <ul style="list-style-type: none">• UNIX processes.• Running programs.• Monitoring processes.• Killing processes.

Chapter 5: Managing Users

You will learn:

- Adding new users and groups.
- Disabling and re-enabling users.
- Monitoring users.
- Setting passwords.
- Password encryption.
- System accounts.
- Root account.
- User administration.

Chapter 6: Linux Administrative Commands

You will learn:

- Common tasks for system administrators.
- Communicating with users.
- File system fundamentals.
- Administrator strategy.
- Running scheduled jobs.

Chapter 7: Filesystem Management

You will learn:

- Devices and files.
- Filesystem management.
- Network Filesystems.
- Backups.

Chapter 8: Linux Networking

You will learn:

- TCP/IP fundamentals: protocol stack, packet capsulation, hostnames, and IP address.
- TCP/IP configuration: subnet masks, addressing, gateways.
- DNS name resolution.
- TCP/IP network testing and tools.
- VPNs: Virtual Private Networks.
- Point-to-Point Tunneling Protocol.
- IPSec.
- Inetd and xinetd.conf services.
- IP addressing.
- ARP- Address Resolution Protocol and RARP - Reverse Address Resolution Protocol.
- Routing tables.
- Relationships between drivers, interfaces and hardware.
- Linux network devices.
- Autoprobing.
- Ifconfig.
- Inetd Super Server and etc/inetd.conf.
- Services and protocol files.

Chapter 9: Administrative Fundamentals

You will learn:

- Handling of the root id.
- Account information.

Chapter 10: Linux Security Fundamentals

You will learn:

- Why security is needed.
- System security issues.
- Network security issues.
- Physical and session security issues.
- Implementing security.

Chapter 11: Linux Kernel
You will learn: <ul style="list-style-type: none">• How to differentiate the kernel configurations files and other configuration files.• Compiling a new kernel.• Setting options via an updated config.• Using the /proc to set kernel parameters.• Running sysctl to set kernel parameters.
Chapter 12: Administrative Services
You will learn: <ul style="list-style-type: none">• How to start and stop services.• The chkconfig command.• Start and stop with the service command.• Use the GUI configuration utility.
Chapter 13: bash
You will learn: <ul style="list-style-type: none">• How to code and debug bash scripts.• How to code bash initialization files.• How to use variables in bash shells.• Setting and displaying options.• Using nesting and looping.
Chapter 14: Perl Fundamentals
You will learn: <ul style="list-style-type: none">• Structure of a Perl program.• Scalar datum.• Handling strings and numbers.• Scalar variables.• Operators.• Arrays and bocks.• Control structures.• Modular programming.