

Content Outline:

Linux History and Operation

The Evolution of Linux

The GNU Movement and the GPL

Linux Operations as a Server

The Architecture and Structure of Linux

Installing and Configuring Linux

Introduction to Installation and Media Types

Performing a Custom Linux Server Installation

Run Levels and the Startup/Shutdown Sequence

Logging In and Out of a Linux System

Shells, Commands, and Navigation

Introduction to Linux Shells, Commands, and Navigation

Navigating the Linux Filesystem

Using Shell Variables in Bash

The Bash Shell

Commands for Obtaining System Information

Examining File Contents

Customizing your Shell Environment

Manipulating Commands and Their Input/Output

Getting Help

Common Text Editors

Using the Emacs Editor

Using the vi Editor

Using the Pico Editor

Manipulating Text Files From the Command Line

Using Awk

Using Sed

Configuring and Using X Windows

Introduction to X Windows

Configuring XFree86

Window Managers and Desktop Environments

Linux Printing

The Line Printer Daemon (lpd)
Printing
Administering a Linux Printer Queue

Users and Groups

Introduction to Users and Groups
Essentials of Effective User, Group, and Password Management

The Ext2 Filesystem

Introduction to the Second Extended (Ext2) Filesystem
Partitioning and Formatting
Mounting and Configuring Filesystems
Administering Ext2 Filesystems
Understanding Permissions

The Linux Kernel

Introduction to the Linux Kernel
Using Kernel Modules
Compiling the Linux Kernel
Installing the Linux Kernel

Shell Scripting

Introduction to Shell Scripting
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Basic Control Structures
Loops
Command-line Arguments

Linux Software Management

The Software Life Cycle

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Choosing a Server
The /proc Filesystem
The Swap Partition
The sudo Command