

Linux System Administration I

Course Summary

Description

In this course students will learn what is required for the administration of a Linux based system. The course begins with basic installation and moves through the logical steps for configuring and perpetuating Linux from an administrative point of view.

Objectives

At the completion of this course, the student will be able to:

- Describe partitioning issues when installing Linux on x86 platforms
- Install and setup a typical Linux system in a standalone environment
- Manage the software installation and update process
- Configure local printers (and access remote printers)

Topics

- Linux Installation (with and without Kickstart)
- Kernel Compilation
- Grand Unified Boot Manager
- Overview of TCP/IP¹
- XFree86 Configuration
- Accessing Linux from Windows¹
- System Startup and Shutdown Process
- System Management Tools
- Physical and Logical Filesystems
- User and Group Management
- System Backup and Restore
- Cron and At
- CUPS Printer Configuration
- RPM (and other) Package Managers
- Problem Determination and Problem Solving Techniques
- Shell Scripting with a Focus on Administrative Tasks

Audience

Prospective system administrators who are already familiar with the Linux operating system, but desire more detailed and specialized information as listed below. This course concentrates on the Red Hat distribution of Linux, but a variety of software packages for other systems are also discussed.

Prerequisites

Students should have a familiarity with Linux commands, directory structure and the text editor

Duration

Five days