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:

- Install, configure, and manage a typical Linux system in a standalone environment

Topics

- Linux Installation (kickstart or autoyast**)**
- Kernel Compilation (why and how)
- Grand Unified Boot Manager (configuration and security)
- RPM/APT/YUM Package Managers
- Building Custom Packages for RPM
- XFree86 and Remote Application Configuration
- System Startup/Shutdown Process (runlevels and system services)
- Overview of System Management Tools
- Physical and Logical Devices (includes overview of LVM2)
- User and Group Management (and differences between distributions)
- System Backup and Restore
- Cron and At (and differences from typical Unix)
- Printer Configuration (using CUPS)
- Problem Determination and Problem Solving Techniques
- Shell Scripting with a Focus on Administration 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 is available for the RedHat and SUSE distributions, but a variety of customized topics are available for other distributions as well (primarily Debian-based).

Prerequisites

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

Duration

Five days

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