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Linux System Administration I - Implementation Information

Length:	40.0 Hours
Ref:	LX03G □
Delivery method:	ClassroomInstructor Led Online
Price:	AUD

Overview

The purpose of this course is to provide experienced Linux users additional skills that may help them become a capable system administrator.

Public

The intended audience for this course is experienced Linux users who want to become administrators of one or more Linux servers.

Prerequisites

You should have:

- Attended IBM Linux course *Linux Basics and Installation (LX020)*
- Practical experience in running Linux as a user

Objective

- Install Linux from a network install server, setup network install servers, and perform automated installs
- Manage system and services startup and shutdown
- Select and use system administration tools when appropriate
- Configure and manage printers
- Use packaging tools to create, install, and de-install packages
- Configure and manage the X Window System and VNC
- Manage logging
- Manage kernel services
- Manage devices
- Manage hard disks, partitions, Redundant Array of Independent Disks (RAID), and Logical Volume Management (LVM)
- Create and manage file systems and file system quota

- Perform memory management
- Use scheduling tools
- Create and restore backups
- Perform user administration
- Apply user-level security
- Troubleshoot Linux problems

Topics

Day 1

- Introduction
- Unit 1: Advanced Linux installation
 - Exercise 1: Advanced Linux installation
- Unit 2: Startup and shutdown
 - Exercise 2: Startup and shutdown
- Unit 3: System administration tools
 - Exercise 3: System administration tools
- Unit 4: Package management
 - Exercise 4: Packaging tools

Day 2

- Unit 5: X Window System and VNC
 - Exercise 5: X Window System and VNC
- Unit 6: Logging
 - Exercise 6: Logging
- Unit 7: Kernel services and device management
 - Exercise 7: Device management

Day 3

- Unit 8: Disk management, RAID, and LVM
 - Exercise 8: Disk management, LVM, and RAID
- Unit 9: File systems and file system quota
 - Exercise 9: File systems
- Unit 10: Memory management
 - Exercise 10: Memory management

Day 4

- Unit 11: Scheduling
 - Exercise 11: Scheduling

- Unit 12: Backup and restore
 - Exercise 12: Backup and restore
- Unit 13: User administration
 - Exercise 13: User administration
- Unit 14: User-level security
 - Exercise 14: User-level security

Day 5

- Unit 16: Problem determination
 - Exercise 16: Problem determination
- Optional units and exercises