Exploring Linux, Part 2: Managing Files

Meet the expert: Chris Penick is CISSP certified and has been a consultant and CISSP trainer in the technology industry for the past 20 years. During that time, he has worked as Principal Learning Consultant for Symantec, webmaster for the FDA, cyber-warfare scenario developer, technical investigator and forensic analyst for a private security firm. His past government clients include all branches of the United States Military, the Department of Commerce, the IRS, the U.S. Custom and Immigration Service, the Executive Office of the President, and state and local governments in Maryland, Michigan, Virginia, and the District of Columbia. His corporate clients include Guess, Inc., EMC, Raytheon, Lockheed Martin, and the Discovery Channel.

Prerequisites: This is an entry level course. Some amount of programming experience will be helpful and speed up your learning, but you can jump right into this course at any level.

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Course description: In this course, Linux expert Chris Penick will explain why understanding file management is so critical for both users and administrators. Since it is often difficult to differentiate between files in Linux, he will examine the search function and show you how to create directories. He will also provide some housekeeping tips so you can keep your home directory clean and efficient.

Course outline:

Managing Files
- Introduction
- The Root Filesystem
- Filesystem Vocabulary
- The /usr/ Hierarchy
- The /var/ Hierarchy
- Linux Virtual Hierarchies
- Summary

Managing Directories
- Introduction
- Navigating Directories
- Paths and Location Addressing
- ls Options
- Directory Operations
- File Operations
- File Properties
- Summary

Working with Directories
- Introduction
- Demo: Navigating Directories
- Demo: Shortcuts
- Demo: Removing Directories
- Summary

Working with Files
- Introduction
- Demo: File Commands
- Demo: Copying Files
- Summary

Symbolic Links
- Introduction
- Demo: Symbolic Links
- Demo: File Commands
- Demo: More Commands
- Summary

Compare and Find Files
- Introduction
- Comparing Files
- Locating Files
- Demo: Comparing Files
- Demo: Checksum
- Demo: Checksum Cont.
- Demo: Find Command
- Summary