Linux, Part 2 of 5: System Functions, Scripts, and Partitions

page 1

Meet the expert: Jordan Hudgens has certifications for Ruby on Rails, Thinkful; Ruby on Rails, Bloc.io; Front End Development, Thinkful; and AngularJS, Thinkful. He is currently vice president of engineering for TRACKR in Midland, Texas and is working on his PhD in Computer Science from Texas Tech. In addition to Ruby, Jordan works with PHP, JavaScript, MySQL, Postgres, CSS3, C, C++, C#, Objective-C, and Python. He also works with the frameworks Rails (Ruby), Zend (PHP), and Django (Python), plus the libraries AngularJS, jQuery, and Backbone.js.

Prerequisites: You should be familiar with basic computer usage in the Mac, Windows, or Linux operating systems. You should also have Linux installed on your system.

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Course description: A continuation of Linux Part 1: Overview, Tools and Users, this course, with expert Jordan Hudgens, explores system functions as well as managing files and directories. Hudgens will discuss working with background jobs and installing packages from the command line, as well as show the power of the Linux Kernel including its flexibility and how it runs the entire OS. Finally, he will walk through the shell programming language and custom scripts, finishing up with creating partitions.

Course outline:

File and Directory Permissions
- Introduction
- Demo: File Permissions
- Demo: Set File Permissions
- Demo: File Permissions Cont.
- Demo: Directory Permissions
- Summary

Processes and System Status
- Introduction
- Demo: Terminate Processes
- Demo: Multiple Processes
- Demo: System Status
- Summary

Usage Monitoring
- Introduction
- Demo: Usage Monitoring
- Demo: Background Jobs
- Summary

Packages
- Introduction
- Linux Packages
- Demo: Using apt
- Demo: Install from the UI
- Demo: Remove Packages
- Summary

Linux Kernel
- Introduction
- What Is the Linux Kernel?
- Kernel vs. User Space
- Introduction to Kernel Modules
- Summary

Intro to Scripts
- Introduction
- Bash/Shell Scripts
- Features
- Placement
- Examples
- Process
- Demo: Custom Script
- Demo: Running a Script
- Summary

Customizing Scripts
- Introduction
- Demo: HelloWorld
- Demo: User Input
- Demo: Global Scripts
- Demo: Conditionals
- Summary

Partitions
- Introduction
- Introduction to Partitions
- Partition Strategies
- Partition Guide
- Summary