Linux, Part 4 of 5: Files and Security

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: This course assumes that students are familiar with basic computer usage in the Mac, Windows or Linux operating systems. It also assumes that students have Linux installed on their system.

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Course description: Discover what it takes to manage a Linux system. Find out what a backup file consists of and how to both manually and automatically back up a system. Explore package management including YUM and RPM, and because security is a critical, discover how to implement proper security protocols. Finally, learn what options you have when it comes to file systems and discover which option is right for you.

Course outline:

Backing Up
- Introduction
- Backing Up
- Demo: Backing Up
- Summary

Package
- Introduction
- Package Management
- RPM and YUM Database
- RPM Commands
- YUM Commands
- Summary

Process
- Introduction
- Processes
- Advanced Process Killing
- Demo: pkill
- Summary

Security
- Introduction
- Security
- Demo: Root
- inetd
- Summary

More Security
- Introduction
- Is Linux Secure?
- Access Points
- Compared with Windows
- Firewalls
- Firewall Configuration
- Port Overview
- Checking Login Attempts
- Demo: Authentication Log
- Summary

Filesystems
- Introduction
- Filesystems
- Superblocks
- inodes
- Creating Filesystems
- Summary