

Linux System Administration Essentials (LFS207)

Linux is the #1 operating system for web servers, cloud computing, smart phones and consumer electronics. Due to its high adoption rates and continued growth, there's a shortage of Linux system administrators. This Linux System Administration Essentials course will teach you the skills and processes you need to work as a professional Linux systems administrator.

Duration: 8 Days

Prerequisites for this course

- Basic knowledge of Linux, including installing Linux and using the command line is helpful, but not required. If you don't have any Linux experience, we highly recommend the "Introduction to Linux" course

Outline for this course

Chapter 1 – Introduction

Chapter 2 – Linux Filesystem Tree Layout

Chapter 3 – User Environment

Chapter 4 – User Account Management

Chapter 5 – Group Management

Chapter 6 – File Permissions and Ownership

Chapter 7 – Package Management Systems

Chapter 8 – dpkg

Chapter 9 – APT

Chapter 10 – RPM

Chapter 11 – dnf and yum

Chapter 12 – zypper

Chapter 13 – GIT Fundamentals

Chapter 14 – Processes

Chapter 15 – Process Monitoring

Chapter 16 – Memory Monitoring, Usage and Configuring Swap

Chapter 17 – I/O Monitoring

Chapter 18 – Containers Overview

Chapter 19 – Linux Filesystems and the VFS

Chapter 20 – Disk Partitioning

Chapter 21 – Filesystem Features: Attributes, Creating, Checking, Usage, Mounting

Chapter 22 – The EXT4 Filesystem

Chapter 23 – Logical Volume Management (LVM)

Chapter 24 – Kernel Services and Configuration

Chapter 25 – Kernel Modules

Chapter 26 – Devices and udev

Chapter 27 – Network Addresses

Chapter 28 – Network Devices and Configuration

Chapter 29 – LDAP

Chapter 30 – Firewalls

Chapter 31 – System Init: systemd History and Customization

Chapter 32 – Backup and Recovery Methods

Chapter 33 – Linux Security Modules

Chapter 34 – System Rescue