



Linux Administration

CR102i

05
Days

Linux Administration

Outline

The material taught in this course will enable students to become independent Linux operating system administrators. This intensive practice-oriented course teaches advanced methods of working with the GNU/Linux operating system. It introduces various methods, tools, and techniques that ensure high-level operation in environments based on Linux shells.

The course includes practical exercises that employ real-world applications.



Target Audience

- Students who want to obtain comprehensive and practical Linux OS and command line know-how.
- Members of System and DevOps teams.
- People with limited experience who want to improve their practical knowledge of Linux.



Prerequisites

- Linux Fundamentals course, or equivalent knowledge.
- Linux Network course, or equivalent knowledge.
- Linux Shell Scripting course, or equivalent knowledge.



Objectives

Upon completing this course, graduates will be able to:

- Manage a Linux environment, including handling packets, resources, and memory.
- Configure Linux services and manage them in the Linux OS.
- Write basic Bash scripts to customize the operating system.



Content

Day 1 **Module 01** Linux Fundamentals

- | Linux Distros & History.
- | Debian vs RedHat.
- | Basic Commands.

Day 2 **Module 02** Users & Permissions

- | File System & File Structure.
- | Users & Groups.
- | Permissions.

Day 3 **Module 03** Networking & Package Groups

- | Package Management.
- | Configuring Network Settings.

Day 4 **Module 04** Linux Services

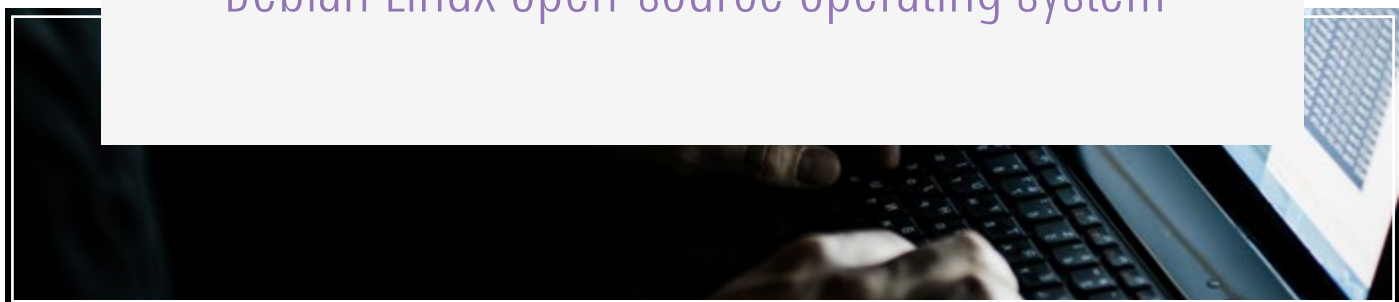
- | Apache2 – Creating a Basic Website.
- | SSH & Telnet.
- | FTP.
- | SMB.

Day 5 **Module 05** Bash Scripting

- | Bash Scripting.
- | Data types and variables.
- | Execute shell command.
- | Loops function, conditions, and arithmetic comparisons.
- | I/O Manipulation.
- | I/O Redirections.



Manage and operate the Ubuntu
Debian Linux open-source operating system"



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