

Course Title: Linux Essentials

Duration: 6 Weeks

Mode: Online

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Course Overview:

Linux Essentials is your entry point into the world of open-source operating systems. Designed for absolute beginners and IT newcomers, this course lays the groundwork for navigating and working in a Linux environment—setting the stage for more advanced system administration or DevOps learning.

From command line basics to understanding the Linux file system, you'll gain practical skills that are highly in demand across cybersecurity, cloud, and software development industries.

Learning Outcomes:

By the end of this course, you'll be able to:

- Understand open-source principles and licensing
- Navigate the Linux command line interface (CLI)
- Manage files and directories using terminal commands
- Work with users, groups, and basic permissions
- Understand the Linux operating system structure
- Perform basic system maintenance and software management

Module Breakdown:

Module 1: Introduction to Linux and Open Source

- What is Linux?
- Open-source software philosophy
- Major Linux distributions and their uses

Module 2: Command Line Basics

- Terminal navigation
- Using commands like ls, cd, pwd, mkdir, rm, cp, mv
- Command options and help utilities

Module 3: Files, Directories & Permissions

- File system hierarchy
- Viewing and modifying file permissions
- Working with file and directory paths

Module 4: Users and Groups

- Creating and managing user accounts
- Group management and privileges
- Switching users and managing access

Module 5: Software & Package Management

- Installing and removing software
- Using package managers (apt, yum, etc.)
- Updating systems and repositories

Module 6: Shell Scripting & Automation Basics

- Intro to shell scripting
- Writing basic scripts
- Using variables and control structures

Hands-On Activities:

- Navigate and manipulate the file system
- Manage users and permissions
- Install packages and update systems
- Create and execute basic shell scripts

Who This Is For:

- Aspiring system admins and DevOps engineers
- Beginner IT professionals
- Students entering the tech space
- Anyone wanting a Linux foundation for cybersecurity or cloud roles

 **Career Outcomes:**

- Junior Linux Administrator
- Support Technician
- IT Helpdesk Associate
- DevOps/Cloud Support Intern

