



LINUX ADMINISTRATION

HELL . FILES . PERMISSIONS
SERVICES . NETWORKING . S
RS . SECURITY . AUTOMATIO

DURATION	LEVEL	MODULES	MODE
60 Hours	Beginner to Advanced	8	Classroom · Online · Hybrid

01 COURSE OVERVIEW

A Linux systems administration course covering daily operations, services and hardening. Everything is done from the command line on RHEL-family and Debian-family systems: users and permissions, package and service management, storage, networking, logging, backups, and shell automation.

Learners build and harden a working server stack with monitoring and scheduled backups.

- WHO IT IS FOR**
- System administrators
 - Cloud and DevOps engineers
 - Support engineers
 - Developers running their own servers

PREREQUISITES

Basic computer knowledge and comfort with a terminal.

02 LEARNING OUTCOMES

01 Navigate and manage files, permissions and ownership.

03 Install and control services with systemd.

05 Manage disks, partitions, LVM and filesystems.

07 Automate tasks with bash and cron.

02 Manage users, groups, sudo and SSH access.

04 Configure networking, firewalls and name resolution.

06 Read logs and diagnose failures.

08 Harden and patch a server responsibly.

03 MODULE STRUCTURE

8 MODULES

01 LINUX FOUNDATIONS

Distributions

Filesystem hierarchy

Man pages

LAB

SERVER INSTALL

Boot process

Shell basics

Editors

02 FILES AND TEXT

Navigation

Links

sed and awk

LAB

TEXT PROCESSING TASKS

Permissions and ownership

find and grep

Archives and compression

03 USERS AND ACCESS

Users and groups

sudoers

SSH hardening

Password policy

SSH keys

PAM overview

LAB

ACCESS CONTROL

04 PACKAGES AND SERVICES

apt and dnf

systemd units

Process management

Repositories

Timers

Resource limits

LAB

SERVICE DEPLOYMENT

05 STORAGE

Partitions

Mounting and fstab

Quotas

NFS basics

Filesystems

LVM

Swap

LAB

LVM EXPANSION

06 NETWORKING

Interfaces and IP configuration

DNS resolution

Diagnostics

Routing

firewalld and iptables

Port services

LAB

FIREWALLED WEB SERVER

07 LOGGING AND MONITORING

journal

Log rotation

Performance tools

rsyslog

top and htop

Alerting basics

LAB

LOG AND METRICS REVIEW

08 AUTOMATION AND HARDENING

Bash scripting

Ansible introduction

CIS baseline items

cron and at

Patching

Backups and restore drills

PROJECT

HARDENED SERVER WITH BACKUPS

04 ASSESSMENT & CERTIFICATION

Module assignments and labs	25%
Mini projects	20%
Internal assessments	15%
Final project and review	40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

LINUX SYSTEM ADMINISTRATOR

CLOUD ENGINEER

DEVOPS ENGINEER

SUPPORT ENGINEER

SITE RELIABILITY ENGINEER

CALL US

+91 73051 33996

EMAIL US

apply@kaizeninfinities.com

VISIT OUR WEBSITE

www.kaizeninfinities.com