

DEVOPS

ADVANCED

5 DAYS

Linux Foundations

Build a strong foundation in Linux system administration by understanding core concepts, architecture, and command line tools. Learn how to install, configure, manage, and script Linux systems while gaining practical knowledge of networking and automation.

Why Linux?

Stronger ops baseline

Navigate Linux systems confidently for DevOps work.

Safer systems

Apply permissions, hardening, and backup practices.

Faster automation

Use bash, packages, and services to reduce manual toil.

Cloud readiness

Operate Linux workloads across local and cloud environments.

What you'll be able to do

- ✓ Understanding of Linux concepts and architecture
- ✓ Good understanding of command-line interface (CLI) tools
- ✓ Learn how to install, configure, and manage Linux-based systems
- ✓ Learn how to write and execute shell scripts
- ✓ Understanding of Linux networking concepts

Who this is for

- IT Professionals
- Developers
- DevOps Engineers
- Data Scientists
- System Administrators
- Network Engineers
- Data Scientists and Analysts
- IT Managers
- QA Engineers

Curriculum

01 Linux Foundations and Distro

- Apply linux foundations and distros with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

02 CLI, Files, and Permissions

- Apply cli, files, and permissions with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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03 Users, Groups, and Packages

- Apply users, groups, and packages with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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04 Bash Scripting and Automation

- Apply bash scripting and automation with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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05 Networking and Remote Access

- Apply networking and remote access with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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06 System Admin and Troubleshooting

- Apply system admin and troubleshooting with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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07 Security and Hardening

- Apply security and hardening with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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08 Virtualization and Containers

- Apply virtualization and containers with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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- Capture reusable patterns for team standards

09 Cloud Linux (AWS/Azure/GCP)

- Apply cloud linux (aws/azure/gcp) with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

10 Backup, Monitoring, and Tuning

- Apply backup, monitoring, and tuning with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

11 Network Services

- Apply network services with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

12 Advanced Admin and Security

- Apply advanced admin and security with Linux in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards