

DEVOPS

ADVANCED

4 DAYS

DevOps Fundamentals

Build a strong foundation in DevOps principles, practices, and tools to enable efficient and reliable software delivery. Learn how to automate CI/CD pipelines, improve collaboration between development and operations teams, and apply DevOps practices effectively within your organization.

Why DevOps Fundamentals?

Shared delivery language

Align teams on DevOps principles and practices.

Safer releases

Introduce monitoring, security, and config management basics.

Faster flow

Connect Agile, CI/CD, and automation fundamentals.

Tooling literacy

Map common DevOps tool categories to real workflows.

What you'll be able to do

- ✓ Equip participants with a comprehensive understanding of DevOps principles, practices, and tools.
- ✓ Provide hands-on experience in building, testing, and deploying software in a collaborative and agile manner.
- ✓ Optimize communication and collaboration between development and operations teams to deliver software more efficiently and reliably.
- ✓ Cover automation tools for continuous integration, continuous delivery, and continuous deployment to improve the speed and quality of software releases.
- ✓ Enable participants to implement DevOps practices in their organization.

Who this is for

- Developers
- System administrators
- IT operations staff
- DevOps engineers
- Site reliability engineers
- Release engineers
- QA and testing professionals
- Security professionals
- IT managers and leaders
- Project and product managers.
- Network professionals, engineers, and network analysts

Curriculum

01 DevOps Foundations and Culture

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

02 Agile Delivery Basics

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

03 DevOps Toolchain Overview

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

04 Infrastructure as Code

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

05 CI/CD Fundamentals

- Apply ci/cd fundamentals with DevOps in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

06 Configuration Management

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

07 Containerization Basics

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

08 Monitoring and Logging

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

09 Security in DevOps

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

10 Practice Capstone

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