

DevOps Mastery: Beginner to Advanced Full Course

DevOps Mastery Roadmap

What Is DevOps?

DevOps = Development + Operations

It's a culture and set of practices that brings together software development (Dev) and IT operations (Ops), aiming to shorten the development lifecycle and deliver high-quality software continuously.

Course Levels:

1. Beginner Level (Foundations)
2. Intermediate Level (Tools & Automation)
3. Advanced Level (Cloud, Infrastructure as Code, Microservices, Security)

Beginner Level Topics:

- Linux Fundamentals
- Git & Version Control
- Networking & System Fundamentals

Intermediate Level Topics:

- CI with Jenkins
- Docker & Containerization
- Kubernetes Basics
- Ansible Configuration Management
- Terraform Infrastructure as Code
- GitHub Actions CI/CD

DevOps Mastery: Beginner to Advanced Full Course

Advanced Level Topics:

- AWS Cloud Fundamentals
- Monitoring with Prometheus, Grafana, ELK
- Advanced Kubernetes Concepts
- Microservices Architecture
- DevSecOps: Secure CI/CD Pipelines
- Observability and Incident Response

Real-World Projects:

- CI/CD for E-Commerce App
- Kubernetes on AWS with Terraform
- Realtime Monitoring for a SaaS App
- Auto Healing App with Self-Healing Infrastructure

Recommended Tools:

OS & Shell: Linux, Bash

Version Control: Git, GitHub

CI/CD: Jenkins, GitHub Actions

Containers: Docker

Orchestration: Kubernetes

IaC: Terraform, Ansible

Cloud: AWS, Azure, GCP

Monitoring: Prometheus, Grafana, ELK

Security: SonarQube, Vault, Trivy

Final Advice:

DevOps Mastery: Beginner to Advanced Full Course

- Start small, build daily.
- Automate everything.
- Think in terms of systems.
- Build personal DevOps projects.