

About Mastering DevOps

Mastering DevOps is a flagship initiative by OpenPath, powered by KV IT-Solutions Pvt. Ltd., offering comprehensive and career-focused online training in Linux, DevOps, and modern opensource technologies.

This program is specifically designed for **B.Tech**, **BCA**, **MCA**, and **Diploma students**, providing affordable, industry-aligned training that bridges the gap between classroom learning and realworld IT infrastructure environments.

At the heart of the program is hands-on exposure to LIVE INDUSTRIAL PROJECTS, preparing learners to tackle real-world challenges in cloud-native infrastructure, automation, continuous **integration**, and deployment pipelines — a critical skill set for today's DevOps-driven ecosystem.

Whether you are a beginner or an aspiring DevOps professional, Mastering DevOps equips you with practical, job-ready skills to confidently manage enterprise-grade infrastructure and automation workflows.

Pre-requisites

- Basic understanding of computer networking
- Complimentary patch-up course available for beginners

Program Details

O Duration: 3 Months

© Course Fee: ₹30,000 (After Discount: ₹25,000)

• Mode: Hybrid (Online + Practical Labs)

© Certification: "Mastering DevOps – Industry Ready Certification" by OpenPath

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R Course Curriculum

Amazon Web Services (AWS)

Build a rock-solid foundation in the most in-demand cloud platform.

- AWS Fundamentals & Core Services
- © EC2, S3, IAM, RDS, Route 53, VPC
- Monitoring & Logging (CloudWatch, CloudTrail)
- DevOps & Automation Tools (CodeDeploy, CodePipeline)
- Serverless with Lambda & API Gateway
- Cost Optimization & Billing Insights
- AWS Security, Compliance, and Best Practices

Ansible - Configuration Management

Master Infrastructure as Code (IaC) with simplicity and power.

- What is Configuration Management?
- Ansible Architecture & Inventory Management
- Modules, AD-HOC Commands, and Playbooks
- Role-Based Automation
- Real-world use cases in enterprise deployments

Terraform - Infrastructure Provisioning

Learn how to automate and scale infrastructure across cloud providers.

- Terraform vs Ansible (Declarative vs Procedural)
- Terraform Workflow & Architecture
- O Configuration Files, Variables, and State Management

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- Managing Resources Across AWS, Azure, GCP
- Mands-on Project: Multi-tier Application Deployment

Docker - Containerization

Package your applications like a pro.

- Containers vs Virtual Machines
- O Docker CLI, Images, and Containers
- O Dockerfiles & Building Custom Images
- O Volumes, Storage Drivers, Port Binding
- O Docker Compose for Multi-Container Apps
- Real-world Lab: Deploy and Scale Apps with Docker

Kubernetes - Container Orchestration

Orchestrate your containers like the big leagues.

- M Kubernetes Architecture & Cluster Components
- Pods, ReplicaSets, Deployments, DaemonSets
- Services, Ingress, ConfigMaps, and Secrets
- Persistent Volumes & Stateful Applications
- Scaling & Rolling Updates
- Use Case: High-Availability App Deployment

Nagios - Monitoring & Alerts

Stay on top of your infrastructure.

• Importance of Continuous Monitoring

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- Nagios Architecture & Key Components
- Installation & Configuration
- NRPE Plugins and Notifications
- © Creating Custom Alerts for Critical Events

ELK Stack (Elastic, Logstash, Kibana)

Unlock insights from your logs.

- © ELK Overview & Real-world Use Cases
- Installing and Configuring Elasticsearch, Logstash, and Kibana
- Centralized Logging with Filebeat & Rsyslog
- Visualizing Server Metrics in Kibana
- Integration with Mail Servers (Zimbra)
- © Custom Dashboards for Performance Analysis

Git - Version Control Essentials

Track, manage, and collaborate on code efficiently.

- Understanding Version Control
- Git Workflow, Commits, and Branching
- Working with Local & Remote Repositories (GitHub/GitLab)
- Webhook Management & Token Authentication
- O Collaboration in a Team Environment
- Mands-on: Git in CI/CD Pipelines

Jenkins - CI/CD Automation

Automate your build and deployment workflows.

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- Jenkins Overview & Architecture
- O CI vs CD Understanding the DevOps Lifecycle
- Jenkins with Docker Scalable Deployments
- Installing and Managing Plugins
- Declarative Pipelines & Delivery Pipelines

What You Will Achieve

By the end of this course, you will:

- ✓Understand core DevOps concepts and tools
- √Build and manage cloud-native infrastructure
- Automate deployments using modern CI/CD tools
- √Monitor and secure your infrastructure proactively
- **⊗**Be job-ready for roles like **DevOps Engineer**, **Cloud Automation Specialist**, or **Infrastructure** Engineer

Includes

- Live industrial projects
- Practical labs and real-time use cases
- Dedicated job assistance and interview prep

Mr. Vikas Debnath

Founder Director, KV IT-Solutions Pvt. Ltd. Founder, OPEN PATH

He believes

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that

OPENPATH PATH TO OPENSOURCE

DevOps Engineer

"Linux is for everyone" — and with the right guidance, anyone can master it.

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