



Mastering DevOps Expand Your Skills

OpenPath is proud to introduce its comprehensive **DevOps** program, a career-focused online training initiative crafted to empower the next generation of IT professionals. This program is meticulously designed for **B.Tech, BCA, MCA, and Diploma students**, offering an in-depth exploration of Linux fundamentals, core DevOps methodologies, and cutting-edge open-source technologies. We are dedicated to providing accessible and affordable, industry-aligned education, ensuring that aspiring engineers receive world-class training without prohibitive financial barriers.

Our curriculum places a strong emphasis on practical application, delivering extensive hands-on exposure through live industrial projects. Participants will acquire invaluable experience in architecting and managing cloud-native infrastructure, implementing robust automation strategies, and mastering continuous integration and continuous delivery (**CI/CD**) pipelines. This immersive approach ensures that graduates are not merely theoretically proficient but also capable of making immediate, impactful contributions to dynamic tech teams. Join us to bridge the gap between academic learning and the complex demands of real-world IT infrastructure, preparing you for unparalleled success in the technology sector.

Program Details & Prerequisites

Required Foundation

Basic understanding of computer networking is recommended.

Beginner Support

A complimentary patch-up course is available for beginners who need to strengthen their foundational knowledge.

Program Details

Duration

3 Months

Course Fee

₹30,000 (After Discount: ₹25,000)

Mode

Hybrid (Online + Practical Labs)

Certification

"Mastering DevOps – Industry Ready Certification" by OpenPath

Core Modules of the DevOps Curriculum

Our comprehensive DevOps program is structured around key industry-leading technologies, providing both foundational knowledge and advanced practical skills. Each module is designed to build expertise progressively, ensuring you master the tools essential for modern IT infrastructure and software development.

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 Workflow & Architecture
- Configuration Files, Variables, and State Management
- Managing Resources Across AWS, Azure, GCP
- Hands-on Project: Multi-tier Application Deployment

Docker - Containerization

Package your applications like a pro, ensuring consistency across environments.

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

Kubernetes - Container Orchestration

- 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

- Importance of Continuous Monitoring
- Nagios Architecture & Key Components
- Installation & Configuration
- NRPE Plugins and Notifications
- Creating Custom Alerts for Critical Events

ELK Stack (Elastic, Logstash, Kibana)

- 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

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

Jenkins - CI/CD Automation

- Jenkins Overview & Architecture
- CI vs CD – Understanding the DevOps Lifecycle
- Jenkins with Docker – Scalable Deployments
- Installing and Managing Plugins
- Declarative Pipelines & Delivery Pipelines
- Hands-on Lab: Build → Test → Deploy with Git & Jenkins

Why Choose OpenPath for Your Linux Journey?

Choosing the right program is a pivotal decision for your career trajectory in the ever-evolving IT landscape. OpenPath's Mastering Linux program is meticulously designed to offer more than just technical training; it provides a holistic ecosystem of support, expertise, and real-world relevance to ensure your success.

Industry-Driven Training

Our curriculum is not just theoretical; it's forged in the crucible of real-world enterprise system environments. You'll gain practical skills directly applicable to the challenges and demands of modern IT infrastructure.

Mentorship by Senior Professionals

Benefit from direct guidance and insights from senior Linux and DevOps professionals who are actively shaping the industry. Their experience provides invaluable context and advanced problem-solving techniques.

Affordable & Accessible Learning

We are committed to making high-quality, career-defining education accessible. Our learning plans are structured to be both cost-effective and flexible, removing barriers to entry for aspiring IT professionals.

Comprehensive Career Support

Our commitment extends beyond the classroom. We offer dedicated career services, including expert resume building, targeted interview preparation, and active placement assistance to help you seamlessly transition into a rewarding role.

Meet Our Visionary Founder

OpenPath is guided by the profound vision of **Mr. Vikas Debnath**, the esteemed Founder Director of KV IT-Solutions Pvt. Ltd. and the driving force behind OpenPath. His extensive experience and dedication to fostering talent underpin the philosophy of our programs.

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

Mr. Vikas Debnath's unwavering dedication to making Linux knowledge accessible to all is not just a principle, but the very heartbeat of **OpenPath's** curriculum, ensuring every student, regardless of their background, is empowered with unparalleled mentorship and resources to truly excel.

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