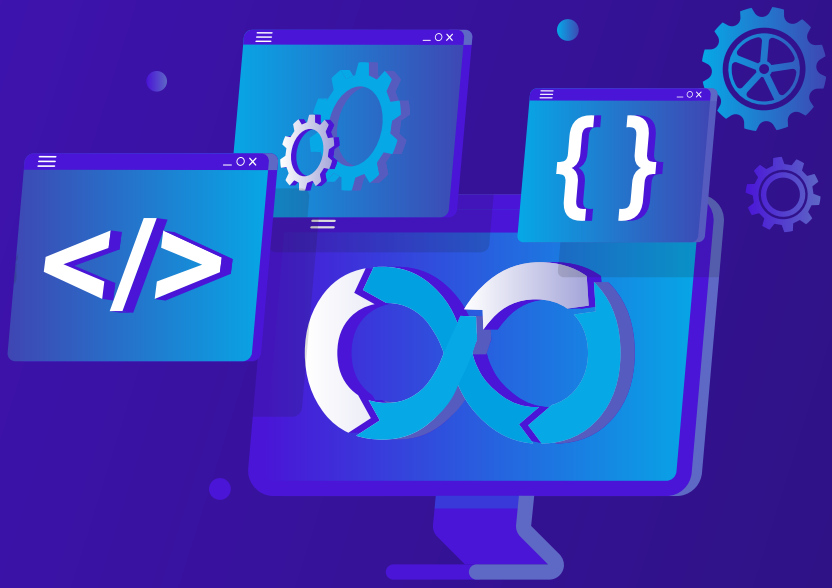
codeZcorp
ACADEMY PRIVATE LIMITED

DEVOPS ENGINEER COURSE

Master DevOps with cutting-edge tools like Docker, Kubernetes, Terraform, Ansible, Jenkins, and AWS. Learn automation, continuous integration, and cloud deployment strategies to streamline software delivery, enhance scalability, and boost system reliability.



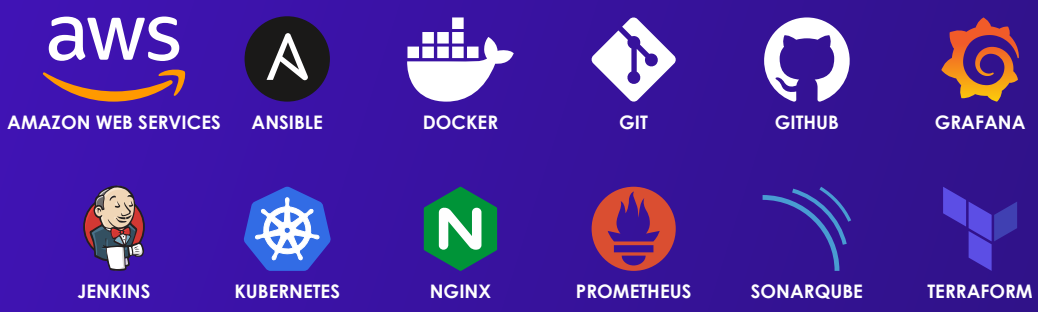
DEVOPS COURSE KEY FEATURES

Comprehensive DevOps Training	Hands-on Labs & Real-World Projects	Master Top DevOps Tools	Industry Recognized Certification
Job Placement Assistance	Project & Internship Opportunities	Affordable Fees	Hybrid mode

SKILLS COVERED

- Scripting & Automation
- DevOps Fundamentals
- Deployment Strategies
- Networking & System Administration
- Version Control with Git & GitOps
- Continuous Integration & Continuous Deployment (CI/CD)
- Containerization & Orchestration
- Infrastructure as Code (IaC)
- Cloud Platforms & Deployment
- DevSecOps & Security Best Practices
- Monitoring & Logging
- Microservices & Serverless Computing
- Performance Optimization & High Availability

TOOLS COVERED



DEVOPS COURSE OVERVIEW

Our DevOps Course is designed to help you bridge the gap between development and operations by mastering automation, continuous integration (CI), continuous deployment (CD), cloud infrastructure, and monitoring.
With hands-on experience in industry-standard tools, you'll learn to create scalable, high-performing, and secure software delivery pipelines.

Key Focus Areas:



DevOps Fundamentals

Version Control with Git & GitHub

CI/CD Pipelines

Infrastructure as Code (IaC)

Cloud Computing

Containerization & Kubernetes

Monitoring & Security

Automation & Scripting



Hands-On Learning & Real-World Projects:

Build a CI/CD pipeline for automated deployment.

Deploy a Kubernetes cluster with microservices.

Automate cloud infrastructure using Terraform & Ansible.

Monitor application performance using Grafana & Prometheus.

Syllabus:

Introduction to DevOps

- Definition and principles of DevOps
- The DevOps lifecycle
- Benefits of DevOps

Linux Basics

- Software & Operating Systems
- Working with Linux
- Linux Basic Commands
- Linux Editors vi, nano
- Linux Shell Scripting

Version Control System

- Overview of Version Control systems
- Introduction to Git
- Git workflow
- Git Commands
- Branching and Merging, Stashing, Rebasing, Reverting and Resetting
- Introduction to GitHub
- Using Git and GitHub together.

Cloud & AWS

- Cloud Computing
- Cloud Computing Models
- Service Model & Deployment Model
- Service Model: SAAS, PAAS & IAAS
- Advantages of Cloud
- AWS
- What is Amazon
- What is Amazon Web Services
- Communicate with AWS Services
- Amazon EC2 Features & Hands-on
- Amazon S3 Features & Hands-on

Jenkins

- Overview of Continuous Integration
- Overview of Jenkins
- Jenkins architecture
- Installing and Configuring Jenkins
- Jenkins Management
- Creating a build using Jenkins
- Integrating with Jenkins
- Working with Jenkins Pipelines
- Automated testing and deployment

Docker

- Introduction to containerization
- Installing and configuring Docker
- Docker Lifecycle
- Docker Engine, Docker Client, Docker Daemon, Containers
- Download & Install Docker on Linux and Windows
- Launch Linux & Windows Containers
- Dockerfile
- Docker Volumes
- Docker Compose
- Microservices
- Docker Swarm – Container Orchestration
- Building Docker images
- Managing containers
- Docker Compose for multi-container applications

Kuberenetes

- Basics of Kubernetes container orchestration
- Differences between Docker Swarm and Kubernetes
- Kubernetes Architecture
- Installing Kubernetes
- Creating Pods and Deployments
- Working with Jobs
- Using Replica Sets & Rolling Updates
- Scheduling the applications on the container

Ansible

- Introduction to configuration management
- Setting up Ansible
- Writing playbooks and roles
- Managing inventory and hosts
- Automation of application deployment

Terraform

- Infrastructure as Code (IaC) concepts
- Installing and configuring Terraform
- Writing and applying Terraform configurations
- Managing cloud infrastructure (AWS, Azure, etc.)
- State management and modules

Monitoring and Logging

- Introduction to monitoring Kubernetes applications
- Tools for logging and monitoring (Prometheus, Grafana)
- Setting up alerts

Security Best Practices

- Securing Docker containers
- Best practices for securing Jenkins and Docker

Automation and Scripting

- Scripting basics (Python, Bash)
- Automating tasks in the DevOps pipeline
- Custom scripts for deployment and monitoring

Case Studies and Best Practices

- Real-world DevOps implementations
- Common challenges and solutions
- Industry trends and future of DevOps

Projects

- Jenkins, Docker and Nginx use automation project
- Jenkins with SonarQube Integration
- Automated Deployment for real-time project
- Sample project automation by using DevOps tools (GIT, Node, Jenkins, & Docker)

Course Duration & Learning Mode

- Flexible Learning
- Duration – 50+ Hours

Certification & career support

- Earn an Industry-Recognized DevOps Certification upon course completion.
- Get resume building, interview coaching, and job placement assistance.

WHY US?

We're not just another training provider - we focus on real-world skills, hands-on learning, and career growth.

- Comprehensive Curriculum
- Hands-On Learning
- Expert Instructors
- Live Projects & Case Studies
- Job Assistance & Placement Support
- Exclusive Workshops & Webinars
- Lifetime Access to Learning Materials
- Budget-Friendly Pricing
- Early Bird Discounts & Special Offers
- Hybrid mode

PLACEMENT GUIDANCE

- Resume Building Assistance
- Mock Interviews & Technical Assessments
- Job Referrals & Hiring Partner Network
- Internship & Project Opportunities
- Industry-Recognized Certification



FAQ'S



Who is this course for?

- Beginners looking to start a career in DevOps
- Software developers, IT engineers, and system administrators transitioning into DevOps roles
- Cloud engineers, SREs, and security professionals expanding their expertise

Is this course hands-on?

Absolutely! Expect real-world projects, cloud labs, and hands-on assignments where you'll build and deploy applications in live DevOps environments.

What are the prerequisites?

No prior DevOps experience is needed! However, basic knowledge of Linux, scripting (Bash/Python), and cloud platforms (AWS, Azure, GCP) will be beneficial.

What DevOps tools will I learn?

You'll work with industry-leading tools, including:

CI/CD & Automation – Jenkins, GitHub Actions, GitLab CI/CD

Containers & Orchestration – Docker, Kubernetes, Helm

Infrastructure as Code (IaC) – Terraform, Ansible, Pulumi

Cloud Platforms – AWS

Monitoring & Logging – Prometheus, Grafana, ELK Stack

Does this course offer job placement assistance?

Yes! We provide resume building, interview preparation, job referrals, and career mentorship to help you land a DevOps job.

How much does the course cost?

We offer affordable pricing with EMI options and special discounts.

Contact us for the latest offers!

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