

AWS DevOps Mastery: Build, Automate & Deploy

Master AWS DevOps through hands-on training, cloud automation and real-world projects: CI/CD, Docker, Terraform, Kubernetes and monitoring on AWS.

DURATION	SESSIONS	TRAINING HOURS
15 weeks	30 live sessions	45 hours
MODE	LEVEL	APPROACH
Live online, instructor-led	Beginner to Intermediate	Hands-on labs and project-based

What you will learn

- **AWS cloud services:** EC2, S3, IAM, VPC and the AWS CLI
- **Linux and shell scripting:** essential commands and automating repetitive tasks
- **Git and GitHub:** source control and team collaboration
- **Docker:** building, managing and deploying containerised applications
- **Jenkins and AWS CodePipeline:** automated build, test and deployment pipelines
- **Terraform:** Infrastructure as Code for AWS
- **Kubernetes:** deploying and scaling applications, with an AWS EKS overview
- **Monitoring:** Grafana dashboards, alerts and AWS monitoring

Curriculum

Ten modules of three sessions each, building from fundamentals to an end-to-end capstone project.

Module 1 DevOps Fundamentals

- 1 Introduction to DevOps and the software delivery lifecycle
- 2 CI/CD concepts and DevOps toolchain
- 3 DevOps workflow and hands-on environment setup

Module 2 Linux for DevOps

- 4 Linux fundamentals and command line
- 5 Linux processes, services, networking, and troubleshooting
- 6 Shell scripting and automation

Module 3 Git & Version Control

- 7 Git fundamentals and repository workflow
- 8 Branching, merging, rebasing, and conflict resolution
- 9 Git workflows for DevOps pipelines

Module 4 AWS Fundamentals

- 10 AWS fundamentals, IAM, and global infrastructure
- 11 EC2, S3, and AWS CLI
- 12 VPC, networking, load balancing, and scaling

Module 5 Docker

- 13 Docker fundamentals, images, and containers
- 14 Dockerfiles, volumes, networking, and Docker Compose
- 15 Docker in CI/CD and AWS container registries

Module 6 Jenkins

- 16 Jenkins fundamentals and CI setup
- 17 Jenkins Pipeline and Jenkinsfile
- 18 Jenkins CI/CD with Git, Docker, and AWS

Module 7 Terraform

- 19 Infrastructure as Code and Terraform fundamentals
- 20 Provisioning AWS infrastructure with Terraform
- 21 Terraform state, modules, remote backend, and best practices

Module 8 Kubernetes

- 22 Kubernetes architecture and core objects
- 23 Kubernetes Services, ConfigMaps, Secrets, and storage
- 24 Application deployment, scaling, updates, and AWS EKS overview

Module 9 AWS CodePipeline

- 25 AWS CodePipeline fundamentals and pipeline design
- 26 Build and deployment automation with AWS CodePipeline
- 27 End-to-end AWS CI/CD pipeline

Module 10 Grafana & Monitoring

- 28 Monitoring fundamentals and Grafana dashboards
- 29 Grafana alerts and AWS monitoring integration
- 30 Capstone – build, automate, deploy, and monitor

How you learn

- Live, interactive sessions with experienced trainers
- Hands-on AWS labs and exercises in every module
- Assignments and real-world scenarios
- A short quiz after each module to check your progress
- An end-to-end DevOps capstone project
- Interview preparation on GeeksArray: skill tests and system-design practice

Who should enrol

- Students and fresh graduates interested in cloud and DevOps
- Software developers expanding their skills
- System administrators moving to cloud engineering
- IT professionals looking to upskill

Prerequisites

Basic knowledge of computers, networking and programming is recommended. Familiarity with Linux and Git helps, but no prior AWS or DevOps experience is needed.

Course completion

Learners who complete the training and meet the assessment requirements receive a course completion certificate through GeeksArray.

Questions about batch dates, timings, fees or anything else?

Contact the course coordinator, **Kaumodini Kedar** · WhatsApp **+91 91726 23305**

Or see the course page on geeksarray.com.

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