Data24Zone Academy

+91 94899 31327 (call / WhatsApp)
hello@data24zone.com · data24zone.com/courses/devops

CAREER PROGRAM · SYLLABUS · GROWTH & INFRASTRUCTURE

DevOps

Build the practical DevOps skillset — CI/CD pipelines, configuration management, container orchestration, observability, and incident response that keeps software shipping reliably.

DURATION	COMMITMENT	LEVEL	FORMATS
12 Weeks	8–10 hrs/week	Intermediate	Online Live · Weekend Batch · Self-Paced

Tools & tech stack

Linux · Docker · Kubernetes · CI/CD · Terraform · Observability · Jenkins / GitLab CI · Ansible · ELK Stack · PagerDuty / Opsgenie · Git · ChatGPT · Claude · Perplexity

Who it's for

- Developers and sysadmins who want to own the full software delivery lifecycle, not just write code

What you'll learn

- CI/CD pipeline design across multiple tools
- Configuration management and infrastructure automation
- Centralized logging, monitoring, and alerting
- On-call incident response and blameless postmortems

Curriculum

01 Part 1: Linux, Networking, Git and Automation

- Linux Administration
- Networking and Web Operations
- Git, Bash and Python Automation

02 Part 2: Cloud and Infrastructure Foundations

- Cloud Concepts and Resource Governance
- Cloud Identity, Networking and Security
- Compute, Storage and Managed Services

03 Part 3: Containers and Artefact Management

- Container Fundamentals
- Image Quality and Supply Chain
- Container Operations and Troubleshooting

04 Part 4: Continuous Integration and Delivery

- Continuous Integration
- Release and Deployment Automation
- Pipeline Design and Governance

05 Part 5: Infrastructure as Code and Configuration

- Terraform Foundations
- Infrastructure Delivery and Governance
- Configuration Management and Images

06 Part 6: Kubernetes Engineering

- Kubernetes Architecture and Workloads
- Kubernetes Packaging and Delivery
- Kubernetes Security, Reliability and Operations

07 Part 7: Observability, SRE and Incident Management

- Monitoring, Logging and Tracing
- Service Reliability Engineering
- Incident Response and Problem Management

08 Part 8: DevSecOps, Platform and FinOps

- DevSecOps and Policy Automation
- Platform Engineering and Developer Experience
- FinOps, Capacity and Sustainable Operations

09 AI Pro

- Using Claude, ChatGPT, and Perplexity to Author Pipelines and Diagnose Incidents
- Verifying AI-Suggested Pipelines and Infrastructure Changes Before Trusting Them
- Project: AI-Assisted Pipeline Authoring with Staging Verification

Projects

- Multi-stage CI/CD pipeline with automated rollback on failure
- Ansible playbook automating server configuration across a fleet
- Centralized logging pipeline aggregating logs from multiple services
- On-call runbook and blameless postmortem for a simulated incident