



NewbieGet

INNOVATION THROUGH LEARNING

UDYAM MSME · GEM REGISTERED

PROFESSIONAL TRAINING PROGRAM

DevOps Engineering

[Docker · Kubernetes · Terraform]

Ship software the way modern teams do – automated pipelines, containerised workloads, infrastructure defined in code, and the monitoring that keeps it all honest.

48

HOURS

9

MODULES

1

CAPSTONE

10

TOOLS COVERED

TOOLS & PLATFORMS COVERED

Git

Docker

Kubernetes

Jenkins

Terraform

Ansible

Prometheus

Grafana

AWS

Azure DevOps

Live

INSTRUCTOR LED

Lab

HANDS-ON GUIDANCE

Project

CAPSTONE REVIEW

Certificate

ON COMPLETION

Enrol for the upcoming batch

Live instructor-led · Weekday & weekend batches

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Built around the **delivery pipeline**

DevOps is not a tool list - it is a way of getting code to production safely and repeatedly. You will build a real pipeline from the first commit: **version control, automated builds and tests, containers, orchestration, infrastructure as code and observability**, then deploy the whole thing to a cloud environment you provisioned yourself.

DURATION**48 hours****PROGRAMME****12 Weeks****FOCUS****Pipeline-first****LEVEL****Intermediate****Who this is for**

- Developers who want to own deployment, not hand it off
- System and IT administrators moving into cloud roles
- QA and support engineers automating their workflow
- Teams adopting containers or Kubernetes

What you will master

- Git workflows, branching strategies and code review
- Automated CI/CD pipelines with Jenkins
- Docker images, registries and multi-container apps
- Kubernetes deployments, services, scaling and Helm
- Terraform and Ansible for repeatable infrastructure
- Monitoring and alerting with Prometheus and Grafana

OUTCOMES

What you walk away with

01**A live pipeline**

A working CI/CD pipeline that builds, tests and deploys a containerised app to Kubernetes.

02**Cloud infrastructure you wrote**

Environments provisioned entirely through Terraform - reviewable, versioned, reproducible.

03**Completion certificate**

A NewbieGet certificate recognised by our industry partners on finishing the programme.

Foundations & Containers

01

Linux, Git & Version Control

5 hrs

[Shell essentials](#) · [Git workflows](#) · [Branching](#) · [Code review](#)

Linux filesystem, permissions, processes and package management; SSH; Git init, commit, branch and merge; rebase vs merge; pull requests and review etiquette; trunk-based vs GitFlow; tags and semantic versioning; resolving conflicts confidently.

02

CI/CD Fundamentals with Jenkins

6 hrs

[Build automation](#) · [Pipelines](#) · [Jenkinsfile](#) · [Artefacts](#)

Continuous integration principles; Jenkins installation and agents; freestyle vs pipeline jobs; declarative Jenkinsfile syntax; stages, steps and post conditions; build triggers and webhooks; credentials management; artefact storage; parallel stages; pipeline as code in the repository.

03

Containerisation with Docker

6 hrs

[Images](#) · [Containers](#) · [Dockerfile](#) · [Compose](#) · [Registries](#)

Container vs virtual machine; Docker architecture; writing efficient Dockerfiles; layers and build cache; multi-stage builds; volumes and bind mounts; networking; Docker Compose for multi-service apps; image tagging; pushing to Docker Hub and private registries; image scanning basics.

04

Kubernetes Orchestration

8 hrs

[Pods](#) · [Deployments](#) · [Services](#) · [Scaling](#) · [Helm](#)

Cluster architecture and control plane; pods, ReplicaSets and Deployments; Services and Ingress; ConfigMaps and Secrets; namespaces and resource limits; liveness and readiness probes; rolling updates and rollbacks; horizontal pod autoscaling; persistent volumes; Helm charts; kubectl in daily practice.

Orchestration & Cloud

05

Infrastructure as Code with Terraform

6 hrs

[HCL](#) · [Providers](#) · [State](#) · [Modules](#) · [Workspaces](#)

Declarative infrastructure; Terraform init, plan, apply and destroy; providers and resources; variables, outputs and locals; remote state and locking; modules for reuse; workspaces for environments; importing existing infrastructure; drift detection; provisioning cloud networks, compute and storage.

06

Configuration Management & Automation

4 hrs

[Ansible](#) · [Playbooks](#) · [Roles](#) · [Secrets](#)

Idempotent configuration; inventory files and groups; ad-hoc commands; playbooks, tasks and handlers; roles and reuse; templates with Jinja2; Ansible Vault for secrets; combining Terraform for provisioning with Ansible for configuration; shell scripting for glue automation.

07

Monitoring, Logging & Observability

5 hrs

[Prometheus](#) · [Grafana](#) · [Logs](#) · [Alerting](#) · [SLOs](#)

The three pillars: metrics, logs and traces; Prometheus scraping and PromQL basics; exporters; Grafana dashboards; centralised logging concepts; alert rules and routing; on-call and incident basics; defining SLIs and SLOs; what to measure on a deployment pipeline.

08

AWS / Azure DevOps Services

5 hrs

[Cloud CI/CD](#) · [Managed Kubernetes](#) · [IAM](#) · [Cost](#)

Cloud account structure and IAM/RBAC; AWS CodePipeline and Azure Pipelines; managed Kubernetes (EKS/AKS); container registries (ECR/ACR); secrets managers and Key Vault; blue-green and canary deployment patterns; environment promotion; tagging and cost awareness.

MODULE 9 · 3 HOURS

End-to-End DevOps Capstone

Take an application from a Git commit through an automated Jenkins pipeline, package it as a Docker image, deploy it to Kubernetes on infrastructure you provisioned with Terraform, then instrument it with Prometheus and Grafana and demonstrate a rollback.

Commit



Build



Containerise



Deploy



Observe

Start with the **early-bird batch**

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Taught by practitioners working on production systems every day.

Practical curriculum

Built around the tools teams actually deploy - not textbook theory.

Certificate on completion

Recognised by our industry partners, issued when you finish the capstone.

ENROL NOW

Let's get you started.

Call or write to us for the next batch dates, the detailed session plan, or a corporate training proposal for your team.

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