Kubernetes and Cloud Native Associate

Duration: 2 Days

Hands-On Format: This hands-on class is approximately 60/40 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

Module 1 – Kubernetes Fundamentals

Kubernetes Resources
Kubernetes Architecture
Kubernetes API
Containers
Scheduling

Module 2 – Container Orchestration

Container Orchestration Fundamentals
Runtime
Security
Networking
Service Mesh
Storage

Module 3 – Cloud Native Architecture

Autoscaling
Serverless
Community and Governance
Roles
Open Standards

Module 4 – Cloud Native Observability

Telemetry & Observability
Prometheus
Cost Management

Module 5 – Cloud Native Application Delivery

Application Delivery Fundamentals
GitOps
CI/CD