KBS-052 Cloud-native Intro with KCNA exam.prep.

Course Length: 2 days

Course Description:

Cloud-native technologies are reshaping the way how IT Services are built and operated. Understanding the features and operation of the building blocks and the resulting cloud-native systems will allow you to make good decisions on your way of planning and building the next generation IT and telco systems.

This course will present the main concepts and features of cloud-native systems: Cloud-native architecture, Cloud-native application delivery, Cloud-native observability, Container orchestration and Kubernetes fundamentals.

This course doesn't only deal with the basic concepts, features and building blocks of cloud-native systems but also prepares for the official Kubernetes and Cloud Native Associate (KCNA) exams of the Cloud Native Computing Foundation (CNCF)

Structure: 75% lecture, 25% demonstration by the instructor

Target audience: Technical managers, project leaders as well as IT and telco professionals who wants to familiarize themselves with cloud-native technologies.

Prerequisites: A general understanding of operating systems, virtualization and networking concepts.

Detailed Course Outline:

Module 1: Cloud Native Architecture

- Cloud Native Architecture Fundamentals
- Autoscaling
- Serverless
- Community and Governance
- Personas
- Open Standards

Module 2: Cloud Native Application Delivery

- Application Delivery Fundamentals
- CI/CD
- GitOps

Module 3: Cloud Native Observability

- Telemetry & Observability
- Monitoring & Prometheus
- Data Visualization & Grafana
- Cost Management

Module 4: Container Orchestration

- Container Orchestration Fundamentals
- Runtime
- Security
- Networking
- Service Mesh
- Storage

Module 5: Kubernetes Fundamentals

- Kubernetes Architecture
- Kubernetes API
- Kubernetes Resources
- Logging & Monitoring
- Scheduling