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Kubernetes - Containerizing Applications in the Cloud

Module 1: Course Overview

- Course Overview
- Course PreReqs

Module 2: Basics of Kubernetes

- Basics of Kubernetes
- What is Kubernetes
- Business Value of Kubernetes
- What is a Container
- What is Docker
- Kubernetes History
- Kubernetes Terminology
- Kubernetes Components
- Whiteboard - Kubernetes Overview

Module 3: Kubernetes Design and Architecture

- Kubernetes Design and Architecture
- Kubernetes Design Fundamentals
- Whiteboard - Kubernetes Architecture
- Deployment - Nodes, Pods, and Clusters
- EtcD
- Kubectl
- Demo - Install Kubectl
- Demo - Kubernetes Commands
- Demo - Kubernetes Commands

Module 4: Deployments

- Deployments
- Options for Deployment
- Deploying a Containerized Application
- What is Minikube
- Demo - Deploy MiniKube
- Demo - Deploy Cluster Deployment
- Demo - Deploy Services
- Demo - Manage Application

Module 5: Course Closeout

Course Closeout
Course Review
Kubernetes Certifications
Additional Resources
Kubernetes Job Outlook
Course Closeout