

Docker, Kubernetes & Azure AKS

Comprehensive Training Syllabus

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Module 1: Docker and Kubernetes

- What is Docker?
- Architecture of Docker
- Docker Images and Container
- Docker CLI
- Docker Storage, Networking
- Docker Services
- What is Kubernetes?
- Docker Swarm vs. Kubernetes
- Architecture of Kubernetes
- Kubectl
- YAML with K8s
- Pods and Services
- Deployments and Replicas

Module 2: Azure AKS and Deployment

- Introduction to AKS
- Create Container Registry
- Create Kubernetes Cluster
- Run Application
- Scale Application
- Update Application
- **Deployment Patterns:**
 - Multiple service instances per host
 - Service instance per host
 - Service instance per VM
 - Service instance per Container
 - Serverless deployment
 - Service deployment platform