KUBERNETES Course

CKA – Certfied Kubernetes Administrator

سرفصل ها

1 – Core Components & concepts

- K8s Components in details
- Cluster Architecture
- Introduction to Pods,Deployments,Replicaset,Statefulset,Namespace
- Imperative Vs Declerative
- Cluster Initialization & Cluster Management – Kubeadm
- (Cluster upgrade in chapter 2)
- ETCD Backup & Restore

2 – Scheduling

- Labeling
- Manual Scheduling
- Use Nodeselector
- Use Node affinity
- Use Taint & Toleration
- Resource Limitation

3 – Logging & Monitoring

- Logs & Events
- K8s Dashboard

4 – Application Lifecycle

- Scale Application
- Environemtns variable types
- Secrets
- Config Maps
- Multi Container – Sidecar Container – init Container
- Probs Types

5 – Authentication & Authorization

- TLS & Certs in K8s
- API Groups
- Role Based Access Controls – RBAC
- Service Accounts & usecase
- KubeConfig
- Network Policy

6 – Storage

- Volume Drivers & storage Interface
- PV & PVC in details
- Storage Class

7 – Networking

- DNS & Networking Concepts
- Core DNS
- CNI & Cluster Networking
- Type of Networking (ClusterIP–Headless–NodePort–LB)
- Ingress & Usecase