KUBERNETES

CERTIFICATE NUMBER : CERT20221205588

IDN.ID

This is to certify that

Adam Furqon

Has completed a 32 hours program of Kubernetes Administration - CKA Training at the IDN.ID Training Center, Jakarta, on 19, 20, 21, 22 Desember 2022
The student was able to obtain proficiency

1. Basic Containerization (Containerd)

Container & Microservices Architecture
Container Runtime Introduction
Containerd Installation
Containerd Basic Command
Create Container Application or Containerd

2. Introduction To Kubernetes

Container Orchestration Introduction
Basic of Kubernetes
Kubernetes Architecture
Installation & Create Cluster
API Concept Kubernetes
Manage RBAC
Manage High-Availability Kubernetes Cluster
Implement etcd Backup & restore

3. Workload & Scheduling

- Understand deployment and how to perform rolling update and rollbacks
- Use ConfigMaps and Secret to configure applications
- Know how to scale applications
- Understand the primitives used to create robust, self-healing, application deployments
- Understand how resource limit can affect Pod Scheduling
- Awareness of manifest management and common templating tools

4. Network & Services

- Understand how networking configuration on the cluster nodes
- Understand connectivity between Pods
- Understand ClusterIP, NodePort, LoadBalancer service types and endpoints
- Know how to ingress controllers and ingress resources
- Know how to configure and use CoreDNS
- Choose an appropriate container network interface plugin

4. Storage, Logging & Troubleshooting

- Understand storage classes, persistent volume
- Understand volume mode, access modes and reclaim policies for volumes
- Understand persistent volume claims primitive
- Know how to configure applications with persistent storage
- Evaluate Cluster and node logging
- Understand how to monitor applications
- Manage container stdout & stderr logs
- Troubleshoot application failure
- Troubleshoot cluster component failure
- Troubleshoot networking

22 Desember 2022

ID Networkers

Dedi Gunawan
CEO of IDN.ID Training Center