

Kubernetes Training

Level - Intermediate



March 27, 2020

Cotocus Ltd.

Bangalore, India

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| Training Dates | TBD |
| Time / Days | 3 Days |
| Trainer Name | Rajesh Kumar |
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Trainer Agenda

Day 1

* Understanding the Need of Kubernetes
* Understanding Kubernetes Architecture
* Understanding Kubernetes Masters and its Component
* Understanding Kubernetes Nodes and its Component
* Understand Kubernetes Concepts
* Understand Kubernetes Terminology
* Kubernetes Clusters Requirements
* Understanding Kubernetes Clusters using kubeadm
* Demo: Installing and Configuring Kubernetes Master
* Demo: Installing and Configuring Kubernetes Workers
* Demo: Install and Configure Workstation using Kubectl
* Understanding a concept of Namespace
* Demo: Define your first Kubernetes pod
* Demo: Working and Deep Dive with Kubernetes pod

Day 2

* Understanding Kubernetes replication controllers
* Demo: Define your first replication controllers
* Demo: Working with Kubernetes replication controllers
* Understanding Kubernetes deployments
* Demo: Define your first deployment
* Demo: Working and Deep Dive with Kubernetes deployment
* Understanding Kubernetes Lebels
* Demo: Define your first Kubernetes Lebels
* Demo: Working with Kubernetes Lebels
* Understanding Kubernetes Services
* Demo: Define your first Kubernetes Services
* Demo: Working and Deep Dive with Kubernetes Services
* Demo: Deploy a Java Stake app using Kubernetes
* Demo: Deploy a Nodejs Stake app using Kubernetes

Day 3

* Understanding Kubernetes Volumes
* Understanding Types of Volumes
* Static and Dynamic Provisioning
* Understanding Persistent Volume and Persistent Volume Claim
* Understanding ConfigMap and Secret
* Understanding Storage Class
* Demo: Working with Persistent Volume and Persistent Volume Claim
* Demo: Working with ConfigMap and Secret
* Demo: Storage Class
* Understanding StatefulSet and DaemonSet
* Understanding CronJob and Job
* Demo: Working with Working StatefulSet
* Demo: Working with DaemonSet
* Demo: Working with CronJob
* Demo: Working with Job
* Demo: Stateless Example: PHP Guestbook with Redis