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# KUBERNETES TRAINING

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Level - Intermediate

COTOCUS

MARCH 27, 2020

COTOCUS LTD.  
Bangalore, India

TRAINING DATES	TBD
TIME / DAYS	3 DAYS
TRAINER NAME	RAJESH KUMAR
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# TRAINER AGENDA

## DAY 1

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- 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

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- 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 Labels
- Demo: Define your first Kubernetes Labels
- Demo: Working with Kubernetes Labels
- Understanding Kubernetes Services
- Demo: Define your first Kubernetes Services
- Demo: Working and Deep Dive with Kubernetes Services
- Demo: Deploy a Java Spring app using Kubernetes
- Demo: Deploy a Node.js app using Kubernetes

## DAY 3

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- 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