

Day - 1

- **Introduction**

- 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

- **Kubernetes Clusters**

- 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

- **Kubernetes Controllers**

- 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

- **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 Stake app using Kubernetes
- Demo: Deploy a Nodejs Stake app using Kubernetes