# Kubernetes Crash Training

## Day - 1

- **Understanding the Need of Kubernetes**
- **Understanding Kubernetes Architecture**
- **Understanding Kubernetes Concepts**
- **Kubernetes and Microservices**
- **Understanding Kubernetes Masters and its Component**
  - kube-apiserver
  - etcd
  - kube-scheduler
  - kube-controller-manager
- **Understanding Kubernetes Nodes and its Component**
  - kubelet
  - kube-proxy
  - Container Runtime
- **Understanding Kubernetes Addons**
  - DNS
  - Web UI (Dashboard)
  - Container Resource Monitoring
  - Cluster-level Logging
- **Understand Kubernetes Terminology**
- **Kubernetes Pod Overview**
- **Kubernetes ReplicationContrller Overview**
- **Kubernetes Deployment Overview**
- **Kubernetes Servcie Overview**

- **Understanding Kubernetes running environment options**
  - Kubernetes in Local machine
  - Kubernetes in cloud
  - Kubernetes in on-prem datacenter
  - Kubernetes in managed Kubernetes cluster

- **Setting up Kubernetes cluster using Minikube (Demo)**
- **Setting up Kubernetes cluster using Minikube (Lab)**
- **Working with first Pods (Demo)**
- **Working with first Pods (Lab)**
- **Working with first ReplicationContrller (Demo)**
- **Working with first ReplicationContrller (Lab)**
- **Working with first Deployment (Demo)**
- **Working with first Deployment (Lab)**
- **Working with first Services (Demo)**
- **Working with first Services (Lab)**