DevOps School Lets Learn, Share & Practice DevOp

## **Kubernetes Intermediate Training**

## **Curriculum 3 Days**

Day - 1	Day - 2
<ul> <li>Understanding the Need of Kubernetes</li> <li>Understanding Kubernetes Architecture</li> <li>Understanding Kubernetes Masters and its Component</li> <li>Understanding Kubernetes Nodes and its Component</li> <li>Understand Kubernetes Concepts</li> <li>Understand Kubernetes Terminology</li> <li>Kubernetes Clusters Requirements</li> <li>Understanding Kubernetes Clusters using kubeadm</li> <li>Demo: Installing and Configuring Kubernetes Master</li> <li>Demo: Installing and Configuring Kubernetes Workers</li> <li>Demo: Install and Configure Workstation using Kubectl</li> <li>Understanding a concept of Namespace</li> <li>Demo: Define your first Kubernetes pod</li> <li>Demo: Working and Deep Dive with Kubernetes pod</li> </ul>	<ul> <li>Understanding Kubernetes replication controllers</li> <li>Demo: Define your first replication controllers</li> <li>Demo: Working with Kubernetes replication controllers</li> <li>Understanding Kubernetes deployments</li> <li>Demo: Define your first deployment</li> <li>Demo: Working and Deep Dive with Kubernetes deployment</li> <li>Understanding Kubernetes Lebels</li> <li>Demo: Define your first Kubernetes Lebels</li> <li>Demo: Working with Kubernetes Lebels</li> <li>Understanding Kubernetes Services</li> <li>Demo: Define your first Kubernetes Services</li> <li>Demo: Deploy a Java Stake app using Kubernetes</li> <li>Demo: Deploy a Nodejs Stake app using Kubernetes</li> </ul>

## 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