



Course Content

COURSE NAME

Container Orchestration

DURATION

3 Days

COURSE CONTENT

Kubernetes

- Setting up a Kubernetes environment
- Building Blocks - Pods
- Replication Controllers and Replica Sets
- Service Discovery and Load Balancing
- Application Deployments and Updates
- Managing Application Configurations with ConfigMaps and Secrets
- Persisting data and dynamic volumes provisioning
- Dynamically scaling apps with Horizontal Pod Autoscaler

HELM

- Introduction to HELM
- Setting up helm with tiller and launching prometheus
- Quick overview of helm Charts
- Launching wordpress with custom values
- Setting up prometheus with custom storageclass and ingress rules
- Deploying grafana and integrating it with prometheus
- Helm Package Manager
- Install Wordpress with Helm
- Install Prometheus with Helm

Rancher

- What is Rancher
- What is RKE
- Build Rancher
- Rancher on EC2
- Rancher Setup
- Rancher start command
- Kubernetes EC2
- RKE configuration
- Kubernetes to Rancher
- Build Kubernetes from Rancher UI

Harbor

- Architecture overview of Harbor
- Deploy Harbor using Docker Machine
- Harbor CLI
- Harbor as a local registry mirror

