

Docker & Kubernetes

Duration: 4-5 Weekends

Prerequisites

- IT background or basics knowledge of SDLC.

Docker

1. Understanding Containers?
2. Start with Docker
3. Install docker on Linux/windows
4. Understand :
 - Docker images
 - Containers
 - Docker repository
 - Docker commands
 - Dockerfile
5. Run your first containers
6. build container images
7. Mount local volumes to docker container
8. Get into a container, login to a container
9. Deploy static html website using docker
10. Deploy java application using docker container
11. See container insights using docker stats
12. Docker best practices

Kubernetes

- | | |
|---|-------------------------------|
| 1. Why Kubernetes? | 7. learn data persistence |
| 2. What is Kubernetes? | 8. Access kube dashboard |
| 3. Install Kubernetes/minikube and kubetools | 9. Scale your containers |
| 4. understand: <ul style="list-style-type: none">• Kubernetes architecture• kubedns• kubescheduler• kubeapi-server• kube-controller• kubeproxy• kubelet• etcd• nodes• pods | 10. Load balance containers |
| 5. Understand use case of Kubernetes | 11. Kubernetes best practices |
| 6. deploy first container in Kubernetes | |