

Advance Docker Administration

Duration: 2 Days

Skill Level: Advance users on container technology

Module 1 - Installation of Docker

Introduction to Docker
Docker Architecture
Docker Components: Docker Client, Docker Host and Docker Registry
Installation of Docker

Module 2 – Docker Client Operations

Running a Container
Container Lifecycle
Managing Containers
Executing Commands in Running Containers

Module 3 – Building Custom Images and Docker Registry

Creating Docker Images using Docker Commit
Building a Dockerfile
Tagging an Image
Pull and Push Images
Creating Private Registries

Module 4 – Container Deep Dive

Cgroups
Namespaces
Container Resource Limits

Module 5 – Storage & Container Networking

Storage Overview
Creating and Managing Volumes
Using Bind Mounts
Overview of Container Networking
Managing Network Bridges

Module 6 – Docker Compose

Understand YAML
Create Docker Compose Files
Deploying and configuring applications
Build Images

Module 7 – Docker Swarm

Container Orchestration
Creating Swarm Cluster
Manage Nodes in Swarm Node Cluster
Manage Services
Secrets
Rolling Service Updates
Monitoring
Scaling