

Advance Docker Administration

Duration: 2 Days

Course Outlines:

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

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