Docker Fundamentals

Duration: 2 Days

Skill Level: Beginners on container technology

Hands-On Format: This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

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 – Storage

Storage Overview
Creating and Managing Volumes
Using Bind Mounts

Module 5 – Container Networking

Overview of Container Networking
Introduction to Bridge Network Driver
Managing Network Bridges
Introduction to Host Network Driver
Create Container with Host Network Driver
Introduction to None Network Driver
Create Container with None Network Driver