

Podman 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 Podman

Introduction to Podman
Podman Architecture
Installation of Podman

Module 2 – Podman Client Operations

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

Module 3 – Building Custom Images and Quay Registry

Creating Podman Images using Podman
Committing a Podmanfile
Tagging an Image Pull and Push Images to Quay.io

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

Module 6 – Troubleshoot Multi Containers

Network Connectivity Issues between Multi Containers
Wrong Environment Variable Issue in Containers