Red Hat OpenShift Development I: Introduction to Containers with Podman DO188

CHAPTER 1

Course Introduction

Welcome to Hands-on with Podman Containers on Linux

CHAPTER 2

Introduction to Containers and Podman

- Understanding Containers and Pods
- Introducing Podman, Skopeo, and Buildah

CHAPTER 3

Managing Container Images Using Podman

- Understanding Container Images
- Installing and Configuring Podman on RHEL
- Working with Container Images Using Podman and Skopeo Part 1
- Working with Container Images Using Podman and Skopeo Part 2
- HANDS-ON LAB Managing Container Images Using Podman and Skopeo on RHEL

CHAPTER 4

Managing Containers Using Podman

- Running Your First Podman Container
- Managing Containers Using Podman
- Managing Container Storage Using Podman
- Managing Container Networking Using Podman

- Monitoring Containers Using Podman
- HANDS-ON LAB Running Your First Podman Container on RHEL
- HANDS-ON LAB Advanced Container Management Using Podman on RHEL

CHAPTER 5

Managing Pods Using Podman

- Understanding Pods
- Creating Your First Podman Pod
- Managing Pods Using Podman
- HANDS-ON LAB Managing Pods Using Podman on RHEL

CHAPTER 6

Creating Container Images Using Buildah

- Introducing Buildah and Dockerfiles
- Creating a Container Image Using Buildah and a Dockerfile
- Creating a Container Image Using Buildah Native Commands
- Using Buildah to Manage Container Images Part 1
- Using Buildah to Manage Container Images Part 2
- HANDS-ON LAB Customizing Container Images Using Podman and Buildah on RHEL

CHAPTER 7

Exploring Podman and Kubernetes Interoperability

- Introduction to Kubernetes YAML Files
- Using Podman to Create a Kubernetes YAML File
- Running a Pod from a Podman-Generated Kubernetes YAML File Using Podman
- Running a Pod from a Podman-Generated Kubernetes YAML File Using Kubernetes
- HANDS-ON LAB Exploring Podman and Kubernetes Interoperability on RHEL

CHAPTER 8

Using Podman to Create systemd Containers and Pods

Introduction to systemd Containers

- Configuring Persistent systemd Containers and Pods
- HANDS-ON LAB Use Podman to Create Persistent systemd Containers and Pods on RHEL

CHAPTER 9

Managing Podman Containers Using Cockpit

- Introduction to Cockpit
- Managing Podman Containers Using Cockpit
- HANDS-ON LAB Manage Podman Containers Using Cockpit on RHEL

CHAPTER 10

Conclusion

- Hands-on with Podman Containers on Linux A Review
- Conclusion and What's Next