

Using HPE Containers, Rev. 21.21

Course Summary

Description

The HPE Ezmeral Container Platform product certification course is an in-depth introduction to the platform offered by HPE. The course covers the key concepts and benefits behind HPE Ezmeral Containers Platform. In addition to the lecture portion, this course also contains hands-on labs to experience exploring and using HPE Ezmeral Containers.

Objectives

At the end of this course, students will be able to:

- Explain foundational concepts necessary for understanding how HPE Ezmeral Container Platform works.
- Explain the HPE Ezmeral Container Platform model, features and functions.
- Perform installation and setup processes.
- Configure various environments and demonstrate key capabilities.

Topics

- Container Foundations
- Introduction to HPE Ezmeral Container Platform
- Getting Started with HPE Ezmeral Platform
- HPE Ezmeral Data Fabric
- HPE Ezmeral Container Platform Kubernetes Management
- Deploying Kubernetes Applications on the HPE Ezmeral Container Platform
- Using HPE Ezmeral MLOPs with Kubernetes Clusters
- HPE Ezmeral Container Platform with EPIC
- Operations

Audience

Typical candidates for this course are consultants, sales engineers, and presales technical engineers who recommend, design, and demonstrate an understanding of HPE Ezmeral Container Platform.

Prerequisites

None

Duration

Three days

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Course Outline

- I. *Container Foundations*
 - A. Container Overview
 - B. Key Docker concepts
 - C. Key Kubernetes concepts

- II. *Introduction to HPE Ezmeral Container Platform*
 - A. Why HPE Ezmeral Container Platform
 - B. HPE Ezmeral Container Platform architecture and deployment options
 - C. HPE Ezmeral Container Platform Reference Architectures and Configurations

- III. *Getting Started with HPE Ezmeral Platform*
 - A. Deployment planning
 - B. Deployment planning for high availability
 - C. Installing Ezmeral Container Platform
 - D. Introduction to platform administration

- IV. *HPE Ezmeral Data Fabric*
 - A. Introduction to HPE Ezmeral Data Fabric
 - B. HPE Ezmeral Data Fabric Architecture
 - C. Introduction to Using Ezmeral Data Fabric within Ezmeral Container Platform

- V. *HPE Ezmeral Container Platform Kubernetes Management*
 - A. Review of Kubernetes Architecture in Ezmeral Container Platform
 - B. Deploying an internal Kubernetes Cluster
 - C. Importing an external Kubernetes Cluster
 - D. Managing the cluster as a Site Admin or Kubernetes Cluster Administration

- VI. *Deploying Kubernetes Applications on the HPE Ezmeral Container Platform*
 - A. Introduction
 - B. Running applications with deployment objects
 - C. Adding services
 - D. Deploying applications with Helm
 - E. Deploying applications with KubeDirector
 - F. Using FS Mounts and DataTaps with applications
 - G. Using Apache Spark on HPE Ezmeral Container Platform
 - H. Using Istio with HPE Ezmeral Container Platform

- VII. *Using HPE Ezmeral MLOps with Kubernetes Clusters*
 - A. Introduction to MLOps
 - B. Implementing ML projects on HPE Ezmeral Container Platform
 - C. Setting up Kubeflow on HPE Ezmeral Container Platform

- VIII. *HPE Ezmeral Container Platform with EPIC*
 - A. Architecture review
 - B. Installing EPIC hosts and setting up Tenants
 - C. Deploying applications

- IX. *Operations*
 - A. Ezmeral Container Platform monitoring
 - B. Using Nagios Alerts
 - C. Updates