HPE Solutions with Containers

Online Course

Course Modules

1. Container Fundamentals

Container overview
o   Container definition
o   Container use cases
o Container runtimes

Kubernetes fundamentals
o   Why Kubernetes
o   Kubernetes architecture
o   Kubernetes definitions such as pods, config maps, and secrets
o   High-level look at Kubernetes networking options
o   Kubernetes volumes and Persistent Volumes (PVs)

Ecosystem of container solutions
o   Service-oriented architectures
o   Migrating to a microservice architecture
o   High-level look at Istio and HashiCorp Consul

Strategies for deploying Kubernetes

2.Introduction to HPE Solutions for Containers

Overview of HPE solution for containers

High-level look at HPE Ezmeral solutions

o   HPE Ezmeral Data Fabric

o   HPE Ezmeral Runtime Enteprise

o   HPE Unified Analytics and HPE Ezmeral ML Ops

3rd party solutions deployed on HPE infrastructure

o   HPE compute, storage, and service portfolio

o   Brief overview of third-party container orchestration solutions

o   Options for deploying the partner-based solution

HPE GreenLake cloud services

Why HPE for containers

o   Key use cases

o   Distinguishing values

3. General Design Guidelines for HPE Container Solutions

Selecting the delivery model

Designing compute for containers

o   Selecting the HPE compute solution

o   VM vs bare metal deployment

Designing storage for containers

o   Understanding the benefits of & positioning HPE storge arrays

o   Understanding the HPE CSI drivers

Designing for security

o   IAM and RBAC

o   SPIFFE and SPIRE

o   Image scanning and signing

Planning for high availability

o   Using service meshes

o   HPE solutions for data protection

Reference to HPE resources

4. Design HPE Solutions for Red Hat OpenShift

Overview of Red Hat OpenShift and architecture Benefits of deploy OpenShift on HPE

Benefits of deploying Red Hat OpenShift on HPE
o   A single point of purchase and coordinated support
o   Deep integrations
o   Automated deployment based on Ansible
o   Validated reference architectures and configurations

Deploying Red Hat OpenShift on HPE Synergy
o   Benefits
o   Reference Architecture and best practices

Deploying Red Hat OpenShift on HPE ProLiant DL
o   Benefits
o   Reference Architecture and best practices

5. Design HPE Solutions for SUSE Rancher

SUSE Rancher overview
o   Architecture
o   Lightweight Kubernetes options

Benefits of the SUSE and HPE partnership
o   Single point of purchase
o   HPE support and services
o   Integrations
o   Options for HPE GreenLake delivery

Deploying SUSE Rancher on HPE
o   Reference Architecture and best practices

6.Design HPE Solutions for VMware Tanzu

Overview of VMware Tanzu

Benefits of deploying VMware Tanzu on HPE
o   HPE OEM licenses for some VMware licenses
o   Value add integrations from HPE

7. Proposing HPE Solutions for Containers

Guidelines for presenting to customers

Distinguishing HPE from the competition

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in terms of time management,
flexibility, and the ability
to access resources anytime,
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