



HPE Primera I: Management and Connectivity eLearning, Rev 23.23 HM9Q5AAE

HPE course number	HM9Q5AAE
Course length	1 day
Delivery mode	eLearning
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The HPE Primera I: Management and Connectivity eLearning course provides an overview of the HPE Primera portfolio. Using hands-on labs, the course reviews how to perform common day-to-day management tasks, including creating the right data efficient volumes on an all-flash HPE Primera array, and leveraging the power of HPE InfoSight.

The course prepares learners for deeper follow-on training from HPE, including the HM9Q6AAE: HPE Primera II: Monitoring and Replication eLearning course.

NOTE: HPE Primera I: Management and Connectivity eLearning, has two components:

1. Web-based training available online
2. Hands-on practice, available through HPE Virtual Labs (HPE vLabs)

With this self-paced eLearning course, you have options normally unavailable with an instructor-led course. You have a year of access to the web-based portion of the training so that you may repeat sections for reinforcement. Take this training at your own pace and on your own schedule. You have one day of access to the HPE Virtual Labs to run the labs associated with this course.

Audience

Customers, administrators and channel partner sales or technical sales

Prerequisites

- An understanding of general storage concepts including fibre channel technology and RAID
- Operator level functionality in a Windows environment

Course objectives

After completing this course, the student should be able to:

- Identify the hardware and software that comprise the HPE Primera family
- Identify HPE Primera hardware building blocks
- Identify data protection and security features
- Identify HPE Primera software and management options for upgrade
- Select key components of the controller node architecture and identify the port numbering
- Identify the Data Services Cloud Console steps to onboard HPE Primera
- Identify administration tools for on-premises management, including features and third-party integration portfolios
- Perform the steps for HPE Primera initial setup, HPE Primera UI, and customer self update/repair options
- Select the definition of key provisioning terms
- Select the correct definitions of the concept of chunklets and logical disks
- Differentiate between HPE Primera concepts of a common provisioning group (CPG)
- Define thin provisioned virtual volumes (TPVV)
- Select the definition of key HPE Primera Data Reduction technologies
- Use SSMC and the CLI to work with hosts and storage
- Export virtual volumes (VV) to a host as VLUNs
- Prepare a host to access an HPE Primera Storage array
- Create hosts in an HPE Primera Storage array
- Identify the steps to add fibre channel (FC) ports to a host
- Identify the components of an iSCSI configuration
- Discuss the guidelines and rules regarding host sets and volume sets
- Select the advantages to the HPE Smart SAN for Primera
- Describe the use of HPE InfoSight to monitor HPE Primera and its surroundings
- Export virtual volumes (VV) to a host as VLUNs
- Unexport virtual volumes (VV) from a host
- Identify the advantages of host sets and volume sets
- Select the guidelines and rules regarding host sets and volume sets
- Identify the definition of application volume sets
- Create and maintain host sets and volume sets using Data Services Cloud Console, SSMC, and CLI
- Identify the advantages of HPE InfoSight
- Navigate the HPE InfoSight console
- Locate reports, array, and physical disk details from HPE InfoSight

Detailed course outline

Module 0: Course Overview

Module 1: Solution Overview:

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| <ul style="list-style-type: none"> • Lesson 1—Hardware Overview <ul style="list-style-type: none"> – HPE Primera hardware – HPE Primera family – HPE Primera hardware building blocks – HPE Primera front and back view – Controller and HBA – Node port identification – Node architecture – ASIC and interconnection – Drive types and enclosures – I/O path optimization – Data-in-place upgrade | <ul style="list-style-type: none"> • Lesson 2—Software and features <ul style="list-style-type: none"> – All-inclusive licenses – Management options – Persistency features |
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Module 2: HPE Primera Management

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| <ul style="list-style-type: none"> • Lesson 1: Manageability <ul style="list-style-type: none"> – Options for management – HPE StoreServ Management Console (SSMC) – Data Services Cloud Console – HPE Primera UI – Command line interface (CLI) overview – Third-party integrations – Self update – Self repair | <ul style="list-style-type: none"> • Lesson 2: Initial setup <ul style="list-style-type: none"> – HPE Discovery Tool – Phases of initial setup – DSCC enablement • Lab 1: Working with SSMC and CLI |
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Module 3: Storage Concepts and Terminology

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| <ul style="list-style-type: none"> • Lesson 1: Provisioning terminology <ul style="list-style-type: none"> – HPE Primera OS virtualization – Virtualization concepts – Chunklet concepts – Virtualization advantages – Controller node ownership – RAID concepts • Lesson 2: Common provisioning groups (CPGs) <ul style="list-style-type: none"> – CPG creation – High availability – Virtual volume overview | <ul style="list-style-type: none"> • Lesson 3: Thin Provisioning concepts <ul style="list-style-type: none"> – Thin provisioning overview – Thin provisioning advantages – Thin provisioning and VMware vSphere® – File system layout considerations – HPE Primera virtual lock feature – Data reduction overview – Capacity allocation • Lab 2: Storage configuration |
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Module 4: Host, Volume, and App Volume Sets	<ul style="list-style-type: none"> • Lesson 1: Host connectivity and storage allocation <ul style="list-style-type: none"> – Host to HPE Primera front-end configuration: FC example – HPE Primera persistent ports – HPE Primera OS 4.x host OS support – iSCSI and DCB features – HPE Primera implementation guide • Lesson 2: Host HBAs and WWNsHost <ul style="list-style-type: none"> – HBAs and WWNs – Commands and utilities • Lesson 3: HPE Smart SAN <ul style="list-style-type: none"> – HPE Smart SAN overview – HPE Smart SAN for HPE Primera features – Using HPE Smart SAN for HPE Primera – Making VLUNs visible to hosts 	<ul style="list-style-type: none"> • Lesson 4: HPE Host Explorer for HPE Primera <ul style="list-style-type: none"> – HPE Host Explorer for HPE Primera features – HPE Host Explorer for HPE Primera examples • Lesson 5: HPE LUNInfo <ul style="list-style-type: none"> – Locating HPE LUNInfo • Lab 3: Host configuration and storage allocation
Module 5: Host, Volume, and App volume sets	<ul style="list-style-type: none"> • Lesson 1: Host and volume sets <ul style="list-style-type: none"> – Host sets and virtual volume sets advantage – Comparison of host and volume sets – Examples – Data Services Cloud Console 	<ul style="list-style-type: none"> • Lesson 2: App volume sets <ul style="list-style-type: none"> – Overview of creating app volume sets – Steps to create app volume sets • Lab 4: Host, volume, and app volume sets
Module 6: HPE InfoSight	<ul style="list-style-type: none"> • Lesson 1: HPE InfoSight sees and predicts behind the scene <ul style="list-style-type: none"> – HPE InfoSight overview – HPE InfoSight artificial intelligence (AI) operations – HPE InfoSight user interface – Reports and analysis – Cross-stack analytics for VMware environments – Software recommendations and updates 	<ul style="list-style-type: none"> • Lab 5: Using HPE InfoSight
Appendix 1: Selected Features Overview	<ul style="list-style-type: none"> • HPE Virtual Domain software 	<ul style="list-style-type: none"> • Data protection solutions overview

Detailed lab outline

Lab 0: HPE vLabs Access	<ul style="list-style-type: none"> Exercise 1: Accessing HPE vLabs 	
Lab 1: Working with SSMC and CLI	<ul style="list-style-type: none"> Exercise 1: Reviewing the SSMC GUI and online help Exercise 2: Reviewing the cashboard and changing output views Exercise 3: Accessing the SSMC settings screen Exercise 4: Adding a user 	<ul style="list-style-type: none"> Exercise 5: Working with the SSMC activity screen Exercise 6: SSMC hardware introduction Exercise 7: Launching the CLI
Lab 2: Storage Configuration	<ul style="list-style-type: none"> Exercise 1: Log in to SSMC Exercise 2: Working with CPGs in SSMC 	<ul style="list-style-type: none"> Exercise 3: Working with virtual volumes (VV) in SSMC <ul style="list-style-type: none"> Exercise 3-1: Creating thin provisioned virtual volumes Exercise 3-2: Creating thin provisioned volumes (TPVV) with data reduction enabled Exercise 3-3: Creating multiple virtual volumes using a count Exercise 3-4: Displaying, editing, and removing virtual volumes Exercise 4: Working with VVs using the CLI
Lab 3: Host Configuration and Storage Allocation	<ul style="list-style-type: none"> Exercise 1: Identify the HBA type (Windows) Exercise 2: Determining host port WWNs Exercise 3: Adding a host using HBA WWNs in SSMC <ul style="list-style-type: none"> Exercise 3-A: Adding a host using Host Explorer in SSMC Exercise 3-B: Adding a host manually using HBA WWNs in SSMC Exercise 4: Export/unexport VLUNs in SSMC 	<ul style="list-style-type: none"> Exercise 5: Windows host configuration formatting and mounting VLUNs Exercise 6: Online virtual volume increase Exercise 7: Working with default reports Exercise 8: Working with HPE 3PARInfo for HPE Primera and HPE 3PAR Exercise 9: Working with hosts and storage using the CLI
Lab 4: Host, Volume and App Volume Sets	<ul style="list-style-type: none"> Exercise 1: Working with host sets and virtual volume sets <ul style="list-style-type: none"> Exercise 1-1: Working with host sets in SSMC Exercise 1-2: Working with virtual volume sets in SSMC Exercise 1-3: Export virtual volume sets to hosts sets in SSMC Exercise 1-4: Unexport virtual volume sets from hosts sets in SSMC Exercise 1-5: Delete virtual volume sets and hosts sets in SSMC 	<ul style="list-style-type: none"> Exercise 2: Working with app volume sets using SSMC Exercise 3: Working with host sets and volume sets using CLI
Lab 5: Using HPE InfoSight	<ul style="list-style-type: none"> Exercise 1: Logging in and dashboard Exercise 2: Access HPE InfoSight support Exercise 3: Array overview Exercise 4: Physical disk details 	<ul style="list-style-type: none"> Exercise 5: Reports Exercise 6: HPE InfoSight scenarios (optional) <ul style="list-style-type: none"> Exercise 6-1: Planning for growth Exercise 6-2: Using HPE InfoSight to troubleshoot

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