

HPE 3PAR StoreServ 3.3.x New Features and Functions H9P96S

HPE course number	H9P96S
Course length	1 day
Delivery mode	ILT, vILT
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This one-day course reviews HPE 3PAR StoreServ OS 3.3.x features and includes:

- A high level overview of a number of new features introduced with HPE 3PAR OS 3.3.x including the 9000 and 20000R2 hardware models, the 8000 Series combo cards, Active-Active disk access, larger virtual volume size support (64TB), Write-back caching single node for 2-node arrays, updates to popular software such as Host Explorer, HPE 3PARinfo, PowerShell Toolkit, and Adaptive Sparring for SSDs.
- Adaptive Data Reduction for Flash: Dedup and Compression. What has changed with the deduplication process plus the ability for SSDs to do compression and data packing to reduce the data footprint of Flash.
- SSMC version 3.x and On-Node System Reporter updates. Whats new with reporting, the on-node database .srdata, and new performance and capacity related CLI commands.
- Improvements and enhancements to the remote replication feature Remote Copy and the high availability add-on feature to Remote Copy, Peer Persistence including 3DC (3Data Center) Peer Persistence.
- Improvements and enhancements to data migration feature Peer Motion and array Federations.

Audience

HPE 3PAR administrators who desire training on the OS 3.3.x features and functions.

Prerequisites

Students must have attended HK902s.

Course objectives

At the conclusion of this course you should be able to:

- Understand the new hardware updates since HPE 3PAR OS 3.3.x
- Work with the larger 64TB volume size
- Understand the logic behind the HPE endorsement of using Raid 6 for FC media
- Work with the new features involving overprovisioning with thin provisioning
- Understand the benefit of Write Back Caching on a Single Node
- List the recent changes to popular software and features
- Describe the SSD related Adaptive Data Reduction technologies: Deduplication, Compression, and Data Packing
- Explain in detail the changes with dedup as of HPE 3PAR OS 3.3.x
- Explain in detail the benefits of compression for flash
- Understand the benefit of data packing with compressed virtual volumes
- Perform a Compression estimate
- Understand the Dedup ratio, Compression ratio, and the Data reduction ratio when looking at SSMC and CLI output
- Work with the latest version of SSMC
- Understand the new sr* commands
- Edit an alert with the setsralertcrit and SSMC
- Work with the space related alerts from the CLI
- Understand the space forecasting functionality
- Enable a 1 minute high resolution data sampling policy
- Edit the .srdata On-Node System reporter data retention settings
- List the new features and improvement with the Remote Copy feature
- Understand the Remote Copy Async Streaming mode and recent improvements for Async Streaming
- List enhancements with the feature Peer Persistence including the enhancement: 3DC (3 Data Center) Peer Persistence
- Work with new features/enhancements for Remote Copy and Peer Persistence using the SSMC GUI
- Provide an overview of the Peer Motion and Federation updates in HPE 3PAR OS 3.3.x
- Describe the Peer Motion utility and its updates
- Explain how to migrate Peer Persistence with Peer Motion
- Describe the SSMC support for storage federation features

The following topics are not included in this course:

- Hands-on hardware installation
- Hands on with hardware

Detailed course outline

Module 1: Recent Features Overview	<ul style="list-style-type: none"> • Hardware Updates • Larger Volumes and Raid 6 • Overprovisioning Host Written (HostWr) 	<ul style="list-style-type: none"> • Write Back Cache Single Node • Updates to Popular software • Adaptive Sparing 2.0
Module 2: Adaptive Data Reduction for Flash	<ul style="list-style-type: none"> • Thin Deduplication • Compression Data Packing DECO 	<ul style="list-style-type: none"> • Adaptive Data Reduction Ratios • Dedup Estimate Compression Estimate Online Volume Conversion
Module 3: SSMC and On-Node System Reporter Updates	<ul style="list-style-type: none"> • SSMC 	<ul style="list-style-type: none"> • On-Node System Reporter
Module 4: Remote Copy and Peer Persistence Improvements	<ul style="list-style-type: none"> • Remote Copy • Peer Persistence 	<ul style="list-style-type: none"> • SSMC Peer Persistence
Module 5: Data Migration	<ul style="list-style-type: none"> • PMU: Peer Motion Utility • Migrating Peer Persistence with Peer Motion 	<ul style="list-style-type: none"> • SSMC: Federation Features

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