



HPE 3PAR StoreServ OS 3.2.1 New Features and Functions H9P96S

HPE course number	H9P96S
Course length	1 day
Delivery mode	ILT
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This one-day course reviews HPE 3PAR StoreServ OS 3.2.1 features and includes:

- Data deduplication in primary storage, a space reduction technique that identifies redundant/duplicate data in physical storage and maintains only a single copy of data for all the redundant copies.
- Adaptive Flash Cache, a flash memory-based caching solution which use StoreServ’s SSD drives as cache storage
- File Persona, a file level storage technology
- StoreServ Management Console (SSMC) v2, the newest graphical user interface for HPE 3PAR array management.

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*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Audience

- HPE 3PAR administrators who desire training on the OS 3.2.1 features and functions

Prerequisites

- Students must have attended HK902 d.00

Course objectives

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

- Work with Adaptive Flash Cache from the CLI and interpret reports showing the performance gains for random read workloads using AFC.
- Understand what can and cannot be moved into Adaptive Flash Cache
- Understand the concept of Least Recently Used queues and LRU queue demotion

- Work with the StoreServ Management Console (SSMC) GUI
- Run reports using SSMC
- Work with Thin Deduped volumes using Management Console, SSMC and the CLI and understand the cost advantages of using deduplication for volumes allocated from expensive SSD capacity
- Work with File Persona services and understand its benefits vs. traditional block storage allocation
- Explain how snapshots work with File Persona
- Configure and use the built in Antivirus capabilities of File Persona
- Configure File Persona Quota Management

The following topics are not included in this course:

- Hands-on hardware installation
- Hands on with hardware

- Array installation
- Service processor
- Hands-on Peer Motion
- On-line Import

Benefits to you

- Gain the knowledge necessary to understand the features of 3PAR StoreServ OS 3.2.1

Detailed course outline

Module 1: StoreServ Management Console (SSMC) Overview

- Architecture
- Installation
- Administrator Console
- Dashboard
- Wizards
- Hardware Management
- Reports and Performance
- Remote Copy and File Persona

Module 2: Thin Deduplication

- Terminology
- Express Indexing
- Garbage Collector
- Compaction and dedup savings
- Online Volume Conversion
- TDVVs and Snapshots
- TDVVs and Remote Copies
- Thin Clones for non-duplicative VM Cloning

Module 3: Adaptive Flash Cache

- Introduction and AFC Explained
- AFC Data Flow in the Controllers
- Least Recently Used (LRU) Queues
- Configuring and Monitoring AFC
- Adaptive Flash Cache CLI Commands
- Monitoring Cache
- Warm-up time Por scientie, musica, sport etc

Module 4: File Persona Part 1: Concepts and Configuration

- File Persona Benefits
- Hardware Requirements
- Scalability Limits
- Enablement and Setup
- Authentication and Authorization
- Provisioning and Management
- File Provisioning Groups
- Virtual File Servers
- File Stores
- File Shares

Module 5: File Persona Part 2: Snapshots, Antivirus, Quotas

- Snapshot Functionality
 - Snapshot Design Criteria
 - Snapshot Basic Concepts and Lifecycle
 - Snapshot Delete and Reclaim
 - Antivirus Scanning
 - Antivirus Architecture
 - Virtual Scan Engines
 - Virtual File Servers
 - File Stores
 - Antivirus CLI
 - AV Policies Using the CLI
 - Quota Management
 - Quota Management Functionality
 - Import/Export Quotes
 - File Store Quotas
 - Managing Quotas
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