



Course overview

HP 3PAR StoreServ OS 3.2.1 New Features and Functions (H9P96s)

This one-day course reviews HP 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 HP 3PAR array management

Audience

- HP 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.
- 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

Course title:	HP 3PAR StoreServ OS 3.2.1 New Features and Functions
HP product number:	H9P96s
Category/Subcategory:	Storage
Course length:	1 day
Level:	Basic
Delivery language:	English
To order:	To review course schedules and to register for a course, visit www.hp.com/learn/storage and select your country from the drop down menu.

- 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

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Detailed course outline

StoreServ Management Console (SSMC) Overview

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

Thin Deduplication

- Terminology
- Express Indexing
- Garbage Collector
- Compaction and dedup savings
- Online Volume Conversion
- TDVs and Snapshots
- TDVs and Remote Copies

- Thin Clones for non-duplicative VM Cloning

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

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

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 Quotas
- File Store Quotas
- Managing Quotas

For more information

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