



HP Education Services

Managing HP 3PAR StoreServ II (HK904S_00776792)

This course covers Remote Copy, System Reporter (External and On-node), HP 3PAR Priority Optimization and QoS (Quality of Service), Peer Motion, and EVA to HP 3PAR Online Migration. Performance Monitoring is also addressed. Hands-on lab exercises help illustrate the concepts learned. The two-day course is 60 percent lecture and 40 percent hands-on labs using HP 3PAR arrays.

Audience

- HP 3PAR administrators who desire introductory training on Remote Copy, System Reporter, and Storage Federation.

Prerequisites

- Managing HP 3PAR Disk Arrays (HK902S - 00775288) or equivalent knowledge

Course objectives

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

- Describe the key features, benefits, and advantages of Remote Copy (RC)
- Explain different types of RC implementations
- Understand the difference between Synchronous, Periodic Asynchronous, and Synchronous Long Distance (SLD) modes
- Discuss different failure scenarios
- Perform a failover of a Remote Copy Group (RCG)
- Use Management Console and the CLI to manage Remote Copy
- Describe the key features, benefits, and advantages of Peer Persistence
- Explain the benefits of using a Quorum witness with Peer Persistence
- Explain the differences between External and On-Node System Reporter
- Run and interpret reports from System Reporter
- Configure email alerts in System Reporter
- Use the On-Node System Report sr* commands
- Understand the advantages of Priority Optimization (PO) and Quality of Service (QoS)
- Discuss the performance implications of PO
- Work with PO using the MC and the CLI

Course title:	Managing HP 3PAR StoreServ II
HP product number:	HK904S_00776792
Category/Subcategory:	Storage
Course length:	2 days
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.

- Set up alerts and monitor QoS using System Reporter
- Describe the purpose of Peer Motion (PM)
- List the benefits of PM
- Explain the PM configuration rules
- Administrate a Peer Motion configuration
- Discuss the concepts behind EVA to HP 3PAR Online Migration
- Explain how HP 3PAR StoreServ Storage performs read and write operations
- Discuss individual component limitations
- Explain the HP 3PAR caching algorithms
- Use the CLI stat commands to troubleshoot performance issues
- Use the System Tuner capabilities
- Understand how to reclaim space using the compactcpg command

Benefits to you

- Understand tradeoffs between cost, availability, and performance when making HP 3PAR administration decisions
- Learn how to migrate your midrange and enterprise block storage data using Peer Motion reducing migration time and application downtime so users experience smooth functioning IT operations
- Optimize your systems by generating and interpreting System Reporter reports including the System Reporter CLI commands.
- Optimize and improve host and array performance using PO and QoS.

Certification(s) and Exam(s)

HP ASE - Storage Solutions Integrator V1

HP0-J70 - Implementing HP 3PAR StoreServ Solutions

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- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
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Detailed course outline

Remote Copy (RC)

- Describe the key features, benefits, and advantages of Remote Copy (RC)
- Explain different types of RC implementations
- Understand the difference between Synchronous, Periodic Asynchronous, and Synchronous Long Distance (SLD) modes
- Discuss different failure scenarios
- Perform a failover of a Remote Copy Group (RCG)
- Use Management Console GUI and the CLI to manage Remote Copy

System Reporter

- System Reporter overview and components
- Quick, custom, and scheduled reports

- Configuring email alerts
- Using the database sizing spreadsheet
- Use On-Node system reporters
- CLI on-node system reporter commands and interpretation

QoS and Priority Optimization

- Priority Optimization benefits and architecture
- Priority Optimization best practices and performance implications
- Working with PO using Management Console and the CLI

Data Migration: Peer Motion and EVA to HP 3PAR Online Import

- Peer Motion purpose and benefits
- Configuration rules
- Administering a Peer Motion configuration
- Understand the Peer Motion Command Line Interface (PMCLI)
- Discuss how Online Windows Cluster Migration works
- Discuss how EVA to HP 3PAR Online import works

Tools for Performance and Troubleshooting and Balancing a 3PAR Array

- Local read and write vs. remote read and write
- Individual component performance
- HP 3PAR caching algorithms
- CLI stat commands for troubleshooting HP 3PAR performance issues
- Use the System Tuner capabilities
- Understand how and when to use the compactcpg command

For more information

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.

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