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

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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

Why education services from HP?
• Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
• Unmatched technical expertise and support for HP products and technologies
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• More than 30 years of Education Consulting
• Global training with more than 90 training locations worldwide
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• Streamlined purchase and management of training with HP Care Pack Services for Education

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

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