



# Managing HPE 3PAR StoreServ II HK904S

This course covers Remote Copy, System Reporter (External and On-node), HPE 3PAR Priority Optimization and QoS (Quality of Service), Peer Motion, and EVA to HPE 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 HPE 3PAR arrays.

## Managing HPE 3PAR StoreServ II

**Price** USD \$1,800

**Links to local schedules, pricing and registration** [US/Canada](#)  
[Mexico/Latin America](#)  
[Brazil](#)

**HP course #** HK904S

**Category** Storage

**Duration** 2 days

## Audience

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

## Prerequisites

- Managing HPE 3PAR Disk Arrays (HK902S) 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
- 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 HPE 3PAR Online Migration
- Explain how HPE 3PAR StoreServ Storage performs read and write operations
- Discuss individual component limitations
- Explain the HPE 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

## Course outline

### Remote Copy (RC) Current product line overviews

- 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 HPE 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 HPE 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
- HPE 3PAR caching algorithms
- CLI stat commands for troubleshooting HPE 3PAR performance issues
- Use the System Tuner capabilities
- Understand how and when to use the compactcp command

Learn more at

**[hpe.com/us/training/storage](http://hpe.com/us/training/storage)**