



HPE StoreAll Storage System Administration HK253S

HPE course number	HK253S
Course length	3 days
Delivery mode	ILT
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Learn how to configure, manage, and monitor a StoreAll File Serving Software Solution (v6.5 or earlier). Topics include how to successfully configure the components of a StoreAll file system, monitor file system activities, and perform basic problem solving and information gathering tasks. The course is 60 percent lecture and 40 percent hands-on labs using HPE StoreAll Network Storage Systems.

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Audience

StoreAll system administrators

Prerequisites

- Familiarity with Linux operating system
- Familiarity with NAS concepts is recommended

Course objectives

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

- Describe the sequence of events used for data read/write operations
- Define the StoreAll network connections and interfaces
- Monitor cluster operations
- Perform administrative functions through the GUI or CLI

- Build a StoreAll file system on file serving nodes and export to clients
- Initiate file creates meeting desired StoreAll allocation policies
- Perform file system expansion of a segment and/or file serving node
- Configure and maintain NFS, CIFS, HTTP, and FTP shares
- Implement and manage native and hardware-based snapshots
- Perform routine maintenance and troubleshooting procedures

Benefits to you

- Gain the skills required to configure, manage, and monitor a StoreAll File Serving Software solution in order to efficiently manage rising file storage demands

Detailed course outline

Module 1: Course Introduction

Module 2: Product Introduction and Solution Architecture

- HPE StoreAll Network Storage Systems
- Glossary of terms
- StoreAll segmented architecture
- Nonhierarchical architecture
- StoreAll Distribution Engine (IDE)
- NFS network read and write
- StoreAll client network read and write
- Solution blueprint

Module 3: Cluster Management

- Monitoring cluster operational status
- Managing file systems
- Monitoring cluster health
- High availability
- Test failover and failback
- Event notification
- Hostgroups and quotas

Module 4: File System Allocation

- Allocation policies overview
- File allocation policies
- How allocation settings are evaluated
- Allocation policy on StoreAll and NFS/SMB clients
- File allocation CLI commands
- Setting, viewing, modifying an allocation policy

Module 5: File System Extension

- Expanding the file system capacity
- Using the Rebalancer
- Increasing performance
- Migrating segment ownership

Module 6: File System Creation and Deletion

- Creating a file system using the GUI
- Creating a file system manually and automatically using the CLI
- File system deletion

Module 7: Data Services: Data Tiering

- Data tiering definition, benefits, and policies
- Determining your tiering schema and policies
- Managing, creating, running, and monitoring data tiering

Module 8: Data Services: WORM

- WORM/data retention
 - Configuration and administration
 - Solution examples
 - Auto commit to WORM
 - Archive reporting
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Course data sheet

Module 9: Data Services—Replication

- Remote replication defined
- Interoperability
- Cluster registration
- Target file system export
- Replication operations

Module 10: Snapshots

- Overview and concept explanation
- Snapshot lifecycle
- Implementing and managing snapshots in the GUI and CLI
- Array-dependent (block/hardware) snapshots

Module 11: Client Services

- NFS and FTP
- HTTP, WebDAV, and SMB

Module 12: SMB File Services

- What is StoreAll SMB
- StoreAll SMB support and features
- Joining an Active Directory Domain
- Case insensitivity

Module 13: Support Services and Problem Solving

- Support ticket
 - File system upgrade utility
 - Statistics tool
 - Insight remote support
 - General problem solving
 - Virus scanning
 - CLI for antivirus
 - Antivirus scheduled scans
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