



HP Education Services

HP StoreAll Storage System Administration (HK253S)

Learn how to configure, manage, and monitor a StoreAll 9000 File Serving Software Solution (v6.3). Topics include how to successfully configure the components of a StoreAll 9000 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 HP 9000 Network Storage Systems.

Audience

StoreAll system administrators

Prerequisites

- Familiarity with Linux operating system and
- 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 9000 network connections and interfaces
- Monitor cluster operations
- Perform administrative functions through the GUI or CLI
- Build an 9000 file system on file serving nodes and export to clients
- Initiate file creates meeting desired 9000 allocation policies
- Perform file system expansion of a segment and/or file serving node
- 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 an 9000 File Serving Software solution in order to efficiently manage rising file storage demands

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

Course title:	HP StoreAll Storage System Administration
HP product number:	HK253S
Category/Subcategory:	Storage
Course length:	3 days
Level:	Intermediate
Delivery language:	English
To order:	You can register your interest for this course online at http://www.hp.com.au/education . At the site, select the course under Storage portfolio and you will see dates for the course. Register your interest for the date of your choice.

- Comprehensive curriculum of job-specific training leading to vendor certification
- Training you need, when and where you need it with our Remotely Assisted Instructional Learning (RAIL)
- More than 30 years of Education Consulting
- Global training with more than 90 training locations worldwide

Detailed course outline

Course Introduction

Product Introduction and Solution Architecture

- HP StorageWorks 9000 Network Storage Systems
- Glossary of terms

- 9000 segmented architecture
- Nonhierarchical architecture
- Ibrix Distribution Engine (IDE)
- NFS network read and write
- 9000 client network read and write
- Solution blueprint

Cluster Management

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

File System Allocation

- Allocation policies overview
- File allocation policies
- How allocation settings are evaluated
- Allocation policy on 9000 and NFS/CIFS clients
- File allocation CLI commands
- Setting, viewing, modifying an allocation policy

File System Extension

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

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

Data Services - Data Tiering

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

Data Services - WORM

- WORM/data retention
- Configuration and administration
- Solution examples

- Auto commit to WORM at version 6.1
- Archive reporting at version 6.1

Data Services - Replication

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

Snapshots

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

Client Services

- NFS and FTP
- HTTP, WebDAV, and CIFS

CIFS File Services

- What is 9000 CIFS
- 9000 CIFS support and features
- Joining an Active Directory Domain
- SMB1 vs. SMB2.0
- Case insensitivity

Support Services and Problem Solving

- Support ticket
- File system upgrade utility
- Statistics tool
- Insight remote support
- General problem solving
- Virus scanning

For more information

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