



HPE StoreFabric B-series Switch Professional HK911S

This course provides a comprehensive understanding of complex configurations within an HPE B-series SAN solution covering technologies and concepts. Students gain the experience needed to tackle the challenges of working in enterprise class SAN environments. The course is 70 percent lecture and 30 percent hands-on labs using HPE servers.

HPE StoreFabric B-series Switch Professional

Price USD \$1,800

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

HP course # HK911S

Category Storage

Duration 2 days

Audience

- Technical professionals seeking a learning path that includes both conceptual knowledge of Fibre Channel SAN technologies and experience in HPE B-series SAN environments

Prerequisites

- Accelerated SAN Essentials (UC434S) or
- HPE StoreFabric B-series Switch Administration (HK910S) or
- A good technical understanding of networking and storage concepts and
- Experience managing Windows or UNIX systems
- Recommended free web-based training at: SAN Fundamentals (U5527AAE)

Course objectives

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

- Explain Virtual Fabrics theory
- List the steps to implement a Virtual Fabric
- Explain 10-bit addressing
- Briefly describe Admin Domains feature
- Configure and implement NPIV
- Configure and deploy Access Gateway
- Describe FC-FC routing technology and its features
- Configure and troubleshoot FC-FC routing
- Identify commands and tools used to verify routing connectivity
- Describe FCIP theory and reasons for using it
- Add a FCIP tunnel and circuit
- Use extra FCIP features

- Configure FCIP via CLI and BNA
- Monitor FCIP tunnel performance
- Describe Adaptive Networking elements and licensing
- Discuss and configure QOS zones
- Describe and configure Ingress Rate Limiting
- Implement Traffic Isolation (TI) zoning in the fabric
- Configure Top Talkers feature and interpret output
- Monitor Brocade FC SANs to help in the detection of bottlenecks
- Distinguish the differences between security policies
- Configure security policies
- Apply policy distribution

Course outline

Virtual Fabrics

- Brocades Virtual Fabric terminology
- LogicalSwitches (LS)
- Fabric ID vs Domain ID
- Virtual Fabrics (VF)
- ISL sharing and definitions
- Steps to implement a Virtual Fabric via CLI
- 10it addressing mode
- Admin domains

Virtual Connectivity NPIV and Access Gateway

- Overview
- Requirements and scalability
- Implementation and configuration of NPIV
- AG theory of operations
- Configuring and deploying Access Gateway
- Configuring failover and fallback
- AG Policies
- Use of F_Port trunking and trunk areas

FC-FC Routing Theory

- Use of F_Port trunking and trunk areas
- Fibre channel - to - fibre channel routing terminology, concepts, and theory
- FC trunking and tags
- FC – FC routing implementation using CLI and BNA
- Supported platforms
- Commands and tools used to verify and troubleshoot routing connectivity

FCIP Theory and Administration

- FCIP introduction
- FCIP mapping and encapsulation
- FCIP circuits, trunking, and tunnels
- FCIP Features
- Adaptive rate limiting and FCIP QoS
- Configure and verify a VE_port-to-VE_port connection
- CLI and BNA configuration procedures
- Testing FCIP performance

Adaptive Networking Traffic Management

- Brocade FC adaptive networking
- Features of Brocade
- FC adaptive networking related to traffic management
- Quality of Service (QoS) SID/DID traffic prioritization in the fabric
- QoS traffic prioritization for Brocade HBAs
- Ingress Rate Limiting (IRL) in the fabric
- Target Rate Limiting (TRL) for Brocade HBAs
- Traffic Isolation (TI) zoning in the fabric

Adaptive Networking Fabric Profiling

- Top Talkers configuration and output
- Top Talkers CLI and BN operations
- Bottleneck detections

Security

- Policy distribution
- Switch Connection Control (SCC)
- Device Connection Control (DCC)
- Fabric Configuration Server (FCS)
- Security policies and their differences

Learn more at

hpe.com/us/training/storage