

# Managing HPE B-Series Fibre Channel Switches (H41BPS)

ID H41BPS Price on request Duration 4 days

## Who should attend

This course is ideal for intermediate to advanced IT professionals seeking a learning path that includes knowledge of FC-SAN technologies and experience in HPE B-series SAN environments

## Prerequisites

Before attending this course, you should have:

- A good technical understanding of networking and storage concepts
- Basic experience in managing Windows systems
- Completed Introduction to SAN (H41BQS) or have knowledge of SAN fundamentals

## Course Objectives

After completing this course, you should be able to:

- Present the B-series portfolio
- Perform an out-of-box initial configuration
- Configure initial security
- Verify switch status
- Identify important fabric parameters
- Perform common administrative tasks
- Explain chassis, fabric, and switch names
- Discuss the default port name
- Describe the Fibre channel networking model
- Recall the format of a WWN
- Describe Fibre Channel topologies
- Identify Fibre Channel addressing
- Identify the node and port types
- Identify the different class of service
- Describe the frame structure
- Describe the role of the principal switch
- Identify exchange-based routing
- Describe in-order delivery (IOD)
- Manage interswitch links (ISL)
- Describe the benefits of trunking
- List the fabric services well-known addresses
- Explain zoning
- Explain quality of service (QoS) SID/DID traffic prioritization

- in the fabric
- Discuss NVMe-oF standard, types, and building blocks
- Discuss SAN extension technologies and implementations
- Explain the use and effects of buffer (BB) credits on distance and speed
- Discuss the different long distance settings and the supported distances for B-series switches
- Identify when a long distance license is required
- Describe the use of long wave SFPs
- Explain the limitations of long distance connection when using trunking
- Describe Fibre Channel over IP (FCIP) and its role in SAN extension
- Describe FCIP circuits, trunking, and tunnels
- Describe adaptive rate limiting and FCIP QoS
- Configure and verify a VE\_Port-to-VE\_Port connection
- Discuss FCIP performance and security
- Explain the Fibre Channel-to-Fibre Channel routing (FC-FC routing)
- Describe Fibre Channel-to-Fibre Channel routing terminology, concepts, and theory
- Explain virtual fabric terminology
- Describe switch connection control (SCC)
- Explain device connection control (DCC)
- Describe fabric configuration server (FCS)
- Explain authentication policy for fabric elements
- Distinguish the difference between the security policies
- Apply policy distribution
- Identify IP filter policies (IPFILTER)
- Explain in-flight encryption
- Describe technologies driving SAN management
- Discuss HPE B-series SAN management today
- List Fabric Vision technologies
- Talk about Flow Vision
- Describe monitoring and alerting policy suite (MAPS)
- Discuss Fabric Vision licensing
- Back up and manage configuration files
- List the steps for performing a successful firmware upgrade
- Describe troubleshooting techniques
- Manage a data gathering process
- List common SAN problems and their solutions
- Outline topology choices and design considerations
- Describe SAN performance factors
- Identify levels of high availability in SAN architecture

## Course Content

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- Module 1: Installation and Configuration
- Module 2: Fibre Channel Theory
- Module 3: FCP Routing and Trunking
- Module 4: Fibre Channel Services
- Module 5: NVMe-oF
- Module 6: Long Distance Connectivity
- Module 7: FCIP
- Module 8: FC-FC Routing and Virtual Fabrics
- Module 9: Security
- Module 10: Management
- Module 11: B-series Performance Monitoring
- Module 12: Maintenance and Troubleshooting
- Module 13: SAN Design

# Managing HPE B-Series Fibre Channel Switches (H41BPS)

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## Training Centres worldwide



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