

Course Outline: AIS Storage Networks

Learning Method: Instructor-led Classroom Learning

Duration: 5.00 Day(s)/ 40 hrs

Overview:

The instructor -led training course introduces the student to the HP Storage Works Modular Smart Array. This course focuses on implementing and managing an MSA SAN solution. The student gains an understanding of the features, benefits and components of each of the systems and learns the main consideration for installing, configuring and troubleshooting the systems.

Designing and Implementing HP SAN Solutions provides the student with an in depth knowledge of Storage Area Network (SAN) design. Heterogeneous Open SAN architecture, advanced Fibre Channel Switched Fabric topologies, SAN management, SAN appliances, and SAN optimization are discussed in detail. Course topics are reinforced through case study and hands-on lab exercises.

This course provides training for the HP StorageWorks Enterprise Virtual Array family, including the EVA 4000/6000/8000 series. The course describes hardware components and functions in detail, including the HSV controller, disk drive enclosure, Fibre Channel loop switch, and management server. Details are provided on how the Enterprise Virtual Array storage system implements virtualization and instructions are given on how to set up, configure, and manage the storage system and hosts using Command View EVA software. This course also describes how error messages are generated and analyzed, and provides basic diagnostic, performance, and troubleshooting resources. Hands-on laboratories are included to correlate with the classroom materials.

At Course Completion:

- After completing this course, you should be able to:
- Explain the benefits of a storage Area Network
- Explain the product benefits and main features of the 2 products
- Identify, locate and discuss the functions of the hardware components including: controllers, drive enclosures and hard drives, expansion controller modules, power and cooling units
- Discuss the sample configurations for the MSA products
- Discuss basic operating procedures and associated considerations
- Demonstrate the ability to diagnose and troubleshoot a variety of problems

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- Design and implement heterogeneous works to fulfill specific business requirements.
- Analyze storage area network optimization.
- Discuss network attached storage versus storage area networks.
- Integrate Enterprise Backup Solution into a SAN environment
- Manage enterprise storage area networks utilizing SAN attached appliances.
- Configure, and manage Fibre Channel Fabric Switches, emphasizing operational theory.
- Describe the components and functions of the Enterprise Virtual Array (EVA) solution
- Identify the physical, management, and interconnect functions of the HSV controller,
- disk drive enclosure, FC-AL drives, and Fibre Channel loop switch
- Locate EVA storage system hardware, and set up and operate components of the
- HSV controller and disk drive enclosure
- Describe the rack models, power cabling, and cabling configurations for all models
- Connect to the Fibre Channel loop switch and use its available interfaces to perform basic functions
- Describe the EVA management hardware and software
- Connect to an EVA management interface and load Command View EVA
- Identify the terminology used with the EVA and virtual storage
- Use Command View EVA to set up, configure, and manage the EVA
- Use Command View EVA to set up and configure hosts for access to the storage system
- Identify features and functions of the Storage System
- Scripting Utility (SSSU) and use the utility to configure storage
- Describe the error reporting and notification mechanisms used to support the EVA
- Install, set up, and use error reporting and notification tools
- Describe basic diagnostic sources and use these sources to perform basic troubleshooting of the array
- Identify FRUs and customer self-repair (CSR) units, and perform procedures for their removal and replacement
- Describe best practices for configuring an EVA to optimize availability, Performance cost

Who should attend?

This course is intended for pre-sales and channel partners. This course is primarily intended for HP NSS Technical personnel, Partners and Resellers, and Storage Technical assistance personnel.

A secondary audience is HP employees, customers and partners with an interest in learning about the installation, configuration and support of the Enterprise Virtual Array storage solutions.

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