Course Outline

Foundations of HPE Storage Solutions Design, Rev. 17.11

Course Summary

Description

This course addresses the fundamental and key technologies influencing the HPE Storage market, particularly in the SMB space. Application of case study scenarios highlights the HPE vision and portfolio. This is an instructor led course and includes a student guide and lab guide, with a small set of hands-on exercises performed remotely on HPE's Partner Ready Certification and Learning Lab.

Objectives

At the end of this course, students will be able to:

- Consult, architect, design, and propose solutions from the latest HPE Storage portfolio products.
- Focus on storage solutions in small- to middle- sized businesses (SMB).
- Explain the fundamental technologies in storage solutions design.

Topics

- The Storage Market and HPE's Transformation Area market strategy
- SAN Basics – technical background
- Direct Attached Storage
- NAS StoreEasy
- SAN Storage
- SAN Infrastructure
- StoreOnce & Entry Level Tape Libraries

Audience

Typical candidates for this course are channel partners, customers, and HPE employees who interpret customer requirements to design, install, configure, and manage HPE storage and backup solutions.

Prerequisites

It is recommended that students have a minimum of six (6) months of experience in storage technologies.

Duration

24 hours

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I. The Storage Market and HPE's Transformation Area market strategy
- A. What is driving the storage change
- B. HPE Storage vision and strategy
- C. Converged Infrastructure
- D. Software Defined Storage / HyperConverge

II. SAN Basics – technical background
- A. SCSI/SAS basics, RAID basics, SNIA, SAN Types, Topologies, FC-Multiprotocol Routing
- B. Fibre Channel
- C. iSCSI
- D. Virtual Connect

III. Direct Attached Storage
- A. "The Big Picture" basic theory of operation
- B. Portfolio – Products Overview
- C. Unique features of each product family
- D. Target Customers for each product family
- E. Specifications and Performance Limits
- F. Factors influencing performance / Sizing guidelines
- G. Best Practices for designing and sizing
- H. Reference Documents
- I. Sizing Tools

IV. NAS StoreEasy
- A. "The Big Picture" basic theory of operation
- B. Portfolio – Products Overview
- C. Unique features of each product family
- D. Target Customers for each product family
- E. Specifications and Performance Limits
- F. Factors influencing performance / Sizing guidelines
- G. Best Practices for designing and sizing
- H. Reference Documents
- I. Sizing Tools

V. SAN Storage
- A. "The Big Picture" basic theory of operation
- B. Portfolio – Products Overview
- C. MSA (20%)
- D. StoreVirtual (25%)
- E. StoreServ 8000 series (50%)
- F. StoreServ File Controller / File Persona (5%)
- G. Unique features of each product family (incl. licensing)
- H. Target Customers for each product family
- I. Specifications and Performance Limits
- J. Factors influencing performance / Sizing guidelines
- K. Best Practices for designing and sizing
- L. Reference Documents
- M. Sizing Tools

VI. SAN Infrastructure
- A. "The Big Picture" basic theory of operation
- B. Portfolio – FC Switch Products Overview
- C. Unique features of each product family
- D. Target Customers for each product family
- E. Specifications and Performance Limits
- F. Factors influencing performance / Sizing guidelines
- G. Best Practices for designing and sizing
- H. Reference Documents
- I. Sizing Tools

VII. StoreOnce & Entry Level Tape Libraries
- A. "The Big Picture" basic theory of operation (Backup Challenges, Methods: Snap / Replication / D2D / Tape, Deduplication, Catalyst)
- B. Portfolio – Products Overview (up to but excluding StoreOnce 6000 series)
- C. Unique features of each product family (incl. licensing)
- D. Target Customers for each product family
- E. Specifications and Performance Limits
- F. Factors influencing performance / Sizing guidelines
- G. Data Protector Software (incl. licensing)
- H. Best Practices for designing and sizing
- I. Reference Documents
- J. Sizing Tools