

Designing HPE Nimble Solutions, Rev. 18.21 (01113228) H9TH1S

HPE course number	H9TH1S
Course length	2 Days
Delivery mode	ILT, VILT
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The Designing HPE Nimble Solutions course is an instructor-led course. This course teaches students how to identify, recommend, and explain HPE Nimble storage solutions. It covers the HPE Nimble hardware and software, initial configuration, Nimble Storage Volumes, snapshots, and replication. The course uses participant-centered learning and hands-on labs.

Why HPE Education Services?

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Audience

Typical candidates for this course are IT, facilities or data center professionals, who work in and around the data center and who have the responsibility to achieve and improve the availability and manageability of the data center. Typical candidate job roles include, but are not limited to, Pre-sales Architects, Pre-sales Engineers, Enterprise Architects, Solutions Engineers, and Technology Architects.

Course objectives

After you successfully complete this course, expect to be able to:

- Describe the AF and HF-Series hardware
- Explain Scale-to-Fit with the Nimble Solutions
- Describe the AF-Series Write Operations
- Explain how to access and navigate the NimbleOS WebUI
- Navigate the InfoSight customer portal
- List port and firewall considerations
- Analyze the NimbleOS event log
- Create protection templates
- Configure access control and initiator groups
- Describe the need to add RPO, RTO and Change Rate definitions
- Explain how replication works
- Discuss the replication considerations

Detailed course outline

Module 1: Course Overview	<ul style="list-style-type: none"> Describe the content of this training Locate Nimble documentation 	<ul style="list-style-type: none"> Describe usage of capacity units Introduce Nimble technologies
Module 2: Hardware	<ul style="list-style-type: none"> Describe the AF and HF-Series hardware 	
Module 3: Scaling with HPE Nimble Storage	<ul style="list-style-type: none"> Explain Scale-to-Fit with the AF- and HF-Series. 	
Module 4: Nimble OS Architecture	<ul style="list-style-type: none"> Describe the AF-Series read and write operations. Describe the HF-Series read and write operations. Explain Deduplication Explain Compression Describe Sequential stripe writes 	<ul style="list-style-type: none"> Describe Triple+ parity and Triple+ parity with integrated spare Describe Integrated spare rebuild Describe Quick RAID rebuild Describe SmartSecure encryption Describe changed block operations
Module 5: NimbleOS WebUI Introduction	<ul style="list-style-type: none"> Explain how to access and navigate the NimbleOS WebUI Explain user administration Describe how to use Microsoft's Active Directory (AD) with user administration 	<ul style="list-style-type: none"> Explain how to monitor the array with the WebUI Explain how to update NimbleOS
Module 6: Introduction to customer support and HPE InfoSight	<ul style="list-style-type: none"> Explain HPE Nimble Support's mission statement Discuss the InfoSight Customer Portal 	<ul style="list-style-type: none"> Describe support coverage and logistics
Module 7: Array Initialization and Setup	<ul style="list-style-type: none"> Explain an array initialization process Explain an array configuration process Describe port and firewall considerations 	<ul style="list-style-type: none"> Articulate Simple Network Management Protocol (SNMP) setup Discuss SYSLOG use Analyze the NimbleOS's event log
Module 8: Working with HPE Nimble Storage volumes	<ul style="list-style-type: none"> Describe basic volume concepts. Explain performance policies and how to create one Discuss access control and initiator groups and how to create them Explain protection templates and how to create one 	<ul style="list-style-type: none"> Explain volume collections and how to create them Discuss volume pinning Show how to create a volume using the WebUI.
Module 9: Introduction to HPE Nimble Storage Snapshots	<ul style="list-style-type: none"> Describe how Nimble snapshots work Explain snapshot scheduling 	<ul style="list-style-type: none"> Describe need to add Recovery Point Objective (RPO), Recovery Time Objective (RTO), and change rate definitions Explain recovering from a snapshot by using zero-copy clones.
Module: 10 Introduction to HPE Nimble Storage Replication	<ul style="list-style-type: none"> Describe basic replication concepts List SmartReplicate components Explain how replication works 	<ul style="list-style-type: none"> Describe replication process Discuss the replication considerations Explain SmartReplicate Disaster Recovery
Appendix A: Pre-installation, Racking, and Cabling	<ul style="list-style-type: none"> Use the pre-installation workbook Explain rack mounting principles Tell how to cable an array 	<ul style="list-style-type: none"> Describe networking and Fibre Channel concepts

Detailed lab outline

Lab 1: Initialize an Array	<ul style="list-style-type: none"> • Learning objectives • Requirements • Lab environment • Lab topology • Connecting to the lab environment 	<ul style="list-style-type: none"> • Exercise 1: Launch Nimble Setup Manager • Exercise 2: Subnet Configuration • Exercise 3: Post Setup Testing
Lab 2: Basic Volume Creation	<ul style="list-style-type: none"> • Learning objectives • Requirements • Exercise 1: Create a volume 	<ul style="list-style-type: none"> • Exercise 2: Create a volume collection • Exercise 3: Create an initiator and an initiator group
Lab 3: Windows Host Setup	<ul style="list-style-type: none"> • Learning objectives • Requirements • Exercise 1: Launch NCM and connect to a volume 	<ul style="list-style-type: none"> • Exercise 2: Examine the newly connected volume • Exercise 3: Return to the Windows host to prepare and mount the volume
Lab 4: Snapshots and Data Recovery	<ul style="list-style-type: none"> • Learning objectives • Requirements • Exercise 1: Create data • Exercise 2: Simulate a data loss even 	<ul style="list-style-type: none"> • Exercise 3: Create a zero-copy clone • Exercise 4: Connect to the clone and recover the data • Exercise 5: Disconnect and delete the clone
Lab 5: Replication Partner Configuration	<ul style="list-style-type: none"> • Learning objectives • Requirements • Lab environment 	<ul style="list-style-type: none"> – Lab topology • Exercise 1: Configure the upstream array • Exercise 2: Configuring the downstream array

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