

HPE Digital Learner

HPE Alletra Storage

Learning path ID	CP0068
Duration	88 hours
Browse related courses	View now

This learning path covers these elements of the HPE Alletra Storage family: HPE GreenLake for Block Storage built on HPE Alletra Storage MP, HPE Alletra Storage 9000, HPE Alletra Storage 6000, and HPE Alletra Storage 5000. The learning path describes the hardware platform building blocks and theory of operation, as well as storage array features. Using hands-on labs, you learn how to perform common day-to-day management tasks, including how to create hosts, volumes, and sets, as well as how to monitor the products. The learning path also provides knowledge of more advanced features, including local and remote replication, disaster recovery, QoS where applicable, maintenance, and data migration. You gain a practical understanding of the array capabilities through extensive hands-on lab exercises, performed on all applicable user interfaces.

5 reasons to choose HPE as your training partner

1. Learn HPE and in-demand IT industry technologies from expert instructors.
2. Build career-advancing power skills.
3. Enjoy personalized learning journeys aligned to your company's needs.
4. Choose how you learn: [in person](#), [virtually](#), or [on demand](#)—anytime, anywhere.
5. Sharpen your skills with access to real environments in [virtual labs](#).

Explore our simplified purchase options, including [HPE Education Learning Credits](#).

Also, for HPE Alletra Storage 9000, HPE Alletra Storage 6000, and HPE Alletra Storage 5000, the learning path provides additional knowledge on Windows, Linux®, and VMware® connectivity to the storage arrays, as well as various integration capabilities of those families with listed operating systems. That includes toolkits, APIs, VMware integration plug-in, and VMware vSphere® Virtual Volumes™(vVols) support. Additionally, an overview of containers support based on Kubernetes® is presented, along with Veeam® Backup & Replication™ integration with storage array replication features. Using extensive hands-on lab exercises gain a practical understanding of HPE Alletra Storage 9000, HPE Alletra Storage 6000, and HPE Alletra Storage 5000 with Microsoft Windows, Linux, VMware, and Veeam Backup & Replication.

Audience

This learning path is ideal for customers, administrators, and channel partner sales or technical sales.

Components

This learning path consists of the following courses:

- [Managing HPE GreenLake for Block Storage MP](#)
- [Managing HPE Alletra 6000 and HPE Alletra 5000](#)
- [HPE Alletra 6000 and HPE Alletra 5000 Integration](#)
- [Managing HPE Alletra 9000](#)
- [HPE Alletra 9000 Integration](#)
- [HPE Nimble and HPE Alletra 6000 Storage dHCI Installation eLearning](#)

Prerequisites

Before attending courses in this learning path, you should have:

- An understanding of general storage concepts including Fibre Channel, iSCSI technology, and RAID
- Operator level functionality in a Windows environment

Certifications and related exams

This learning path prepares you for the:

- Administrator – Managing HPE Alletra 6000 and HPE Alletra 5000 badge skills assessment
- Administrator – Managing HPE Alletra 9000 badge skills assessment

Detailed course outline

Course 1

Managing HPE GreenLake for Block Storage MP

Description: The Managing HPE GreenLake for Block Storage MP course describes the HPE Alletra Storage MP hardware platform building blocks, theory of operation and HPE GreenLake for Block Storage features. Using hands-on labs (HOL), students learn how to perform common day-to-day management tasks, including how to create hosts, volumes, sets, and how to monitor the product. This course also provides knowledge of more advanced features, including local and remote replication, disaster recovery, QoS, as well as maintenance and data migration. You gain a practical understanding of HPE GreenLake for Block Storage MP capabilities using extensive hands-on lab exercises, performed on all applicable user interfaces

Objectives: After completing this training, students should be able to:

- Describe HPE Alletra Storage MP hardware and features
- List and compare HPE GreenLake for Block Storage MP management options, roles, and security
- Explain provisioning terminology
- Perform on-boarding and initialization
- Work with volumes, hosts, and corresponding sets

- Protect data with snapshots, clones, and use protection policies
- Describe priority optimization and quality of service (QoS)
- Explain different types of replication implementations and failure scenarios
- Briefly describe data migration, high availability, and disaster tolerance solutions
- Describe monitoring and alerting options
- Describe the HPE GreenLake for Block Storage MP OS update procedure, maintenance

lab outline:

- Lab 1: Getting Started with UIs
- Lab 4: Array Preparation Tools
- Lab 5: Hosts Configuration and Management
- Lab 6: Volumes Configuration and Management
- Lab 7: Working with Protection Policies, Snapshots and Clones
- Lab 8: Working with Replication
- Lab 9: Working with Peer Persistence
- Lab 10: Performing Monitoring, Managing, Alerts and Events
- Lab 11: HPE GreenLake for Block Storage Maintenance



Course 2**Managing HPE Alletra 6000 and HPE Alletra 5000**

Description: The Managing HPE Alletra 6000 and HPE Alletra 5000 course describes the HPE Alletra 6000 and HPE Alletra 5000 portfolio hardware building blocks, theories of operation, and features. Using hands-on labs, students learn to perform common day-to-day management tasks, including how to create hosts, volumes, and collections, as well as how to monitor the product. This course also provides knowledge of more advanced features, including local and remote replication, disaster recovery, scaling-out, QoS, and maintenance. You gain a practical understanding of HPE Alletra 6000 and HPE Alletra 5000 array capabilities using extensive hands-on lab exercises, performed on all applicable user interfaces.

Objectives: After completing this training, students should be able to:

- Describe HPE Alletra 6000 and HPE Alletra 5000 hardware, architecture, and software features
- List and compare HPE Alletra 6000 and HPE Alletra 5000 management options
- Describe HPE Alletra 6000 and HPE Alletra 5000 array initialization and Data Services Cloud Console onboarding
- Explain HPE Alletra 6000 and HPE Alletra 5000 provisioning terminology, features, and read/write operations flow
- Prepare and create hosts and initiator groups for HPE Alletra 6000 and HPE Alletra 5000 storage arrays
- Work with volumes, volume collections, and quality of service (QoS)

- Describe and manage snapshots, clones, and protection templates
- Describe the concept, use, and benefits of the HPE Alletra 6000 and HPE Alletra 5000 storage scale-out architectures
- Explain asynchronous remote replication concepts, implementation, and failure scenarios
- Describe peer persistence concepts, architecture, requirements, and the automatic switchover (ASO) process
- Describe HPE Alletra 6000 and HPE Alletra 5000 monitoring options and tools
- Describe the HPE Alletra 6000 and HPE Alletra 5000 OS update procedure

Lab outline:

- Lab 0: HPE vLabs Access
- Lab 2: Getting Started with UIs
- Lab 3: Array Preparation Tools
- Lab 5: Hosts Configuration and Management
- Lab 6 - 1: Volumes Configuration and Management
- Lab 6 - 2: Working with Quality of Service (QoS)
- Lab 7: Working with Protection Policies, Snapshots and Clones
- Lab 8: Working with Remote Replication
- Lab 9: Working with Scale-Out technology
- Lab 10: Working with Peer Persistence
- Lab 11: Monitoring, Alerts and Events
- Lab 12: HPE Alletra 6000 and HPE Alletra 5000 Maintenance

Course 3**HPE Alletra 6000 and HPE Alletra 5000 Integration**

Description: This course provides additional knowledge of Windows, Linux®, and VMware® connectivity to HPE Alletra 5000 and 6000 storage arrays, as well as various integration capabilities of those families with listed operating systems. That includes Windows and Linux toolkits, VMware integration plug-in, and VMware vSphere® Virtual Volumes™(vVols) support. Additionally, overview of containers support based on Kubernetes® is also presented. Veeam® Backup & Replication™ integration with HPE Alletra 5000 and HPE Alletra 6000 replication features is also discussed.

Using extensive hands-on lab exercises that comprise over 70% of the course, you gain a practical understanding of HPE Alletra 5000 and 6000 integration with Microsoft Windows, Linux, VMware, Kubernetes containers, and Veeam Backup & Replication.

Objectives: After completing this training, students should be able to:

- Integrate HPE Alletra 6000 and HPE Alletra 5000 storage with Windows environments

- Integrate HPE Alletra 6000 and HPE Alletra 5000 storage with Linux environments
- Integrate HPE Alletra 6000 and HPE Alletra 5000 storage with VMware environments
- Describe integrations with Kubernetes containers
- Integrate HPE Alletra 6000 and HPE Alletra 5000 storage with Veeam Backup & Replication backup software

Lab outline:

- Lab 1: Working with Windows Integrations
- Lab 2: Working with Linux Integrations
- Lab 3: Working with VMware Integrations
- Lab 4: Working with Veeam Integrations
- Lab 5: Using the REST API



Course 4**Managing HPE Alletra 9000**

Description: The Managing HPE Alletra 9000 course describes the HPE Alletra 9000 portfolio hardware building blocks, theory of operation and features. Using hands-on labs (HOL), students learn to perform common day-to-day management tasks, including how to create hosts, volumes, and sets, as well as how to monitor the product. This course also provides knowledge of more advanced features, including local and remote replication, disaster recovery, QoS, as well as maintenance and data migration. You gain a practical understanding of HPE Alletra 9000 array capabilities using extensive hands-on lab exercises, performed on all applicable user interfaces.

Objectives: After completing this training, students should be able to:

- Describe HPE Alletra 9000 hardware and features
- List and compare HPE Alletra 9000 management options, roles, and security
- Explain provisioning terminology
- Perform HPE Alletra 9000 array on-boarding and initialization
- Work with volumes, hosts, and corresponding sets
- Protect data with snapshots, clones, and use protection policies

- Describe priority optimization and quality of service (QoS)
- Explain different types of Remote Copy implementations and failure scenarios
- Briefly describe data migration, high availability, and disaster tolerance solutions
- Describe HPE Alletra monitoring and alerting options including HPE InfoSight
- Describe the HPE Alletra 9000 OS update procedure, maintenance, and data migration options

Lab outline:

- Lab 0: vLabs Access
- Lab 1: Getting Started with UIs
- Lab 4: Initialization and Array Status
- Lab 5: Hosts Configuration and Management
- Lab 6: Volumes Configuration and Management
- Lab 7: Working with Protection Policies, Snapshots and Clones
- Lab 8: Working with Priority Optimization/QoS
- Lab 9: Working with Remote Copy
- Lab 10: Working with Peer Persistence
- Lab 11: Performing Monitoring, Managing, Alerts and Events
- Lab 12: Working with HPE Alletra 9000 Maintenance, OS Update and Data Migration

Course 5**HPE Alletra 9000 Integration**

Description: This course provides additional knowledge of Windows, Linux®, and VMware® connectivity to HPE Alletra 9000 storage arrays, as well as various integration capabilities of those families with listed operating systems. That includes Windows and Linux toolkits, VMware integration plug-in, and VMware vSphere® Virtual Volumes™(vVols) support. Additionally, overview of containers support based on Kubernetes® is also presented. Veeam® Backup & Replication™ integration with HPE Alletra 9000 replication features is also discussed.

Using extensive hands-on lab exercises that comprise over 70% of the course, you gain a practical understanding of HPE Alletra 9000 integration with Microsoft Windows, Linux, VMware, and Veeam Backup & Replication.

Objectives: After completing this training, students should be able to:

- Integrate HPE Alletra 9000 storage with Windows environments

- Integrate HPE Alletra 9000 storage with Linux environments
- Integrate HPE Alletra 9000 storage with VMware environments
- Describe integrations with Kubernetes containers
- Integrate HPE Alletra 9000 storage with Veeam Backup & Replication backup software

Lab outline:

- Lab 1: Working with Windows Integrations
- Lab 2: Working with Linux Integrations
- Lab 3: Working with VMware Integrations
- Lab 4: Working with Veeam Integrations
- Lab 5: Using the REST API



Course 6**HPE Nimble and HPE Alletra 6000 Storage dHCI Installation**

Description: HPE Nimble and HPE Alletra 6000 Storage dHCI Installation is a self-paced eLearning course that helps you successfully deploy the HPE Nimble and HPE Alletra 6000 Storage dHCI Greenfield solution. It explains the differences and requirements of both the Greenfield and Brownfield solutions. It also identifies the benefits of deploying the solution in HPE Nimble and HPE Alletra 6000 iSCSI VMware® environments.

Objectives: After completing this training, students should be able to:

- Describe the two different offerings for HPE Nimble and HPE Alletra 6000 Storage dHCI solutions
 - Greenfield
 - Brownfield
- Understand the basic tasks involved with the HPE Nimble Storage and HPE Alletra 6000 dHCI Greenfield solution delivery
- Understand and perform the solution installation using the HPE Nimble Storage and HPE Alletra 6000 dHCI software

Interested in purchasing this training as standalone eLearning? [Contact us](#) for information on purchasing this learning path for individual use.

Learn more at

hpe.com/ww/digitallearner

hpe.com/ww/digitallearner-content

Follow us:

