Hewlett Packard Enterprise

HPE Digital Learner for HPE SimpliVity Content Pack

HPE Content Pack number	CP046
Content Pack length	16 hours
Content Pack category	Category 1
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This content pack provides knowledge and skills related to using and managing HPE SimpliVity for VMware vSphere®. It covers the HPE SimpliVity hardware and HPE SimpliVity OmniStack software. The course includes demonstrations, interactions and learning checks, as well as practice through simulation and hands-on labs using live equipment. This content pack also includes the HPE SimpliVity Microlesson Library, where all the how-to demonstrations are consolidated and categorized for quick access.

NOTE: This content pack has two components:

1. Web-based training available online

2. Hands-on practice, available through HPE Virtual Labs (HPE vLabs)

You have a year of access to the web-based portion of the training so that you may repeat sections for reinforcement. Take this training at your own pace and on your own schedule. You have 30 sequential days of access to the HPE Virtual Labs to run the labs associated with this course in a dedicated environment.

Audience

This content pack is recommended for infrastructure administrators and system engineers who engineers who need to learn how to administer HPE SimpliVity.

Prerequisites

HPE recommends that students starting this content pack have basic server, storage, and networking and hypervisor (VSphere) experience.

Content Pack objectives

Upon completion of this content pack, you should be able to:

- Describe hyperconvergence and the functionality of HPE SimpliVity

- Describe the HPE SimpliVity products' physical characteristics and software architecture

- Describe the functionalities and layers of HPE SimpliVity Data Virtualization Platform

- Explain architectural designs on the node, cluster and federation levels

- Describe architectural concepts of the HPE SimpliVity topologies and datapaths

- Use the HPE SimpliVity vSphere user interface for management tasks

- Identify how VM data is stored across HPE SimpliVity clusters

- Create datastores and perform different tasks associated with HPE SimpliVity datastores

- Explain the various HPE SimpliVity operations like clone or move VM

- Create manual and policy-based backups and use them for restore

- Configure external stores for secondary backup

- Perform basic support tasks on the HPE SimpliVity Federation

- Use RapidDR to automate remote site recovery

- Run various commands to perform actions using the HPE SimpliVity CLI

- Use REST API components and functions

- Get backups and restore virtual machines using the REST API

- Access the interactive REST API reference

- Install and use features of HPE SimpliVity RapidDR

- Utilize the HPE SimpliVity Microlesson Library for just-in-time performance support

Detailed Content Pack outline

HPE SimpliVity Overview	This eLearning course provides an introduction to hyperconvergence and the functionality of HPE SimpliVity. It also gives an overview of the hardware models and software used in the solution. Finally, it shows where HPE SimpliVity fits into the bigger picture.	• Product description
		
		  – Hyperconvergence, deduplication, resiliency
		
		• Hardware overview
		
		  – HPE SimpliVity models, components, accelerator card, configurations
		
		• Hardware overview
		
		  – The Data Virtualization Platform (DVP), HPE OmniStack REST API, OmniWatch and RapidDR

HPE SimpliVity Theory of Operation	This eLearning course provides information about the HPE SimpliVity 380 and 2600 architecture and under-the-hood operation. It describes federation topologies, OVC failover, Intelligent Workload Optimizer, and the Arbiter.	• HPE SimpliVity Federation
		
		  – HPE SimpliVity Federations and clusters
		
		  – Deduplication
		
		  – VM operations
		
		  – Intelligent Workload Optimizer and Resource Balancer
		
		• HPE SimpliVity resiliency features
		
		  – Raid levels, cluster level data protection
		
		  – RapidDR
		
		  – Stretched cluster support
		
		• HPE SimpliVity and HPE StoreOnce integration
		
		  – Replication, restoration and optimized backups

HPE SimpliVity System Administration for vSphere	In this course, you learn to work with the HPE OneView REST API. You create/ edit/remove resources with the REST API using different access methods (Postman, cURL, and PowerShell). You see demonstrations of each topic and then you have the chance to practice what you've learned within the virtual lab environment.

- HPE SimpliVity infrastructure

  - Components, HPE SimpliVity plug-in for vSphere Client

  - HPE OmniStack host—network interfaces

  - HPE SimpliVity Arbiter and Virtual Controller

  - Management Virtual Appliance

  - External stores

  - Best practices

- Federation

  - Federation, scale and manageability, security

  - MVA deployment

  - Mixed software versions in a Federation

  - Federation security

- Clusters, hosts and datastores

  - Clusters

    - Intelligent Workload Optimizer

    - DRS rule creation

    - vSphere HA configuration

    - Stretched clusters

    - Backup reports

  - Hosts

    - View, shut down and remove

    - Standard ESXi hosts

  - Datastores

    - Create, resize, configure, manage and delete

- VMs and VM templates

  - Clone, move and save credentials for VSS

  - VM templates

- Backups and restores

  - Backups and backup policies

  - Restore a VM or template

  - File level restore

  - Restore VSS backups

- External stores and standard ESXi Hosts

  - Register, backup and restore

  - Datastores and standard ESXi hosts

- Support details

  - VMware pre-configured and HPE SimpliVity-specific alarms

  - Create a support capture

- Hands-on labs

  - Access software components, edit backup policies, add datastores, clone and move a VM, create support capture file, create a RapidDR recovery configuration

| **HPE SimpliVity CLI and REST API Operations** | This eLearning course covers a range of HPE SimpliVity administration actions executed using the CLI and REST API commands and scripts. It also includes interactive demo recordings, learning checks and hands-on exercises on live HPE SimpliVity equipment. | • Introduction to HPE SimpliVity management

– Common SimpliVity administration tasks

• HPE SimpliVity CLI

– Accessing the Virtual Controller CLI, user requirements, commands

• HPE SimpliVity REST API

– Interacting with the REST API

– Object relationship

– SimpliVity PowerShell module

– REST API examples

• Hands-on labs

– Accessing the CLI through vCenter Web Client console and through a terminal emulator, exploring backup policy, datastore, VM, backup, restore and shutdown commands, the interactive REST API reference and calls through PowerShell |
| **HPE SimpliVity RapidDR** | This eLearning course introduces the HPE SimpliVity RapidDR tool. Topics include a product overview, features, installation requirements, how to use guidelines, and software demonstrations for implementation. | • Product overview

– Key features

– Security

– How it works

– Recovery from ransomware

– StoreOnce integration

– Network customization

• Installing RapidDR

– Requirements

– Installing software, installing a license

– User interface and navigation

• Using RapidDR

– Create and edit a plan

– Test a failover and fallback

– Execute failover and fallback

– Integrating with StoreOnce

• Troubleshooting RapidDR

– RapidDR log files

– General troubleshooting tips |

HPE SimpliVity Microlesson Library

This library is a consolidated collection of the how-to demonstrations from each of the courses in the HPE SimpliVity Digital Learner Content Pack. Designed as a performance support tool, the categorized links offer quick and easy access to specific topics.

- HPE SimpliVity Theory of Operation

  – HPE SimpliVity deduplication basics

  – HPE Simplivity deduplication deep dive

  – HPE SimpliVity with HPE StoreOnce integration

- HPE SimpliVity System Administration for vSphere

  – HPE SimpliVity cluster efficiency

  – HPE SimpliVity cluster performance

  – Generate backup report

  – Safely shutdown Virtual Controller

  – Remove a host from the HPE SimpliVity Federation

  – Create a datastore

  – Resize a datastore

  – Delete a datastore

  – Clone a virtual machine

  – Move a virtual machine

  – Save credentials for VSS

  – Convert a VM to a template

  – Create backup policies

  – Restore from a backup

  – File level restore

  – Register an external store

  – Create a support capture

- HPE SimpliVity CLI and REST API Operations

  – Logging into the CLI using the web console

  – Logging into the CLI using PuTTY

  – Using the CLI

  – Using the REST API

  – HPE Dev Hack Shack automation demo part 1

  – HPE Dev Hack Shack automation demo part 2

- HPE SimpliVity RapidDR

  – Create a plan

  – Modify a plan

  – Test a failover

  – Test a failback

  – Execute a failover

  – Execute a failback

  – HPE StoreOnce integration

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