



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# HPE SimpliVity 380 System Administration (VMware)

CODE:	LENGTH:	PRICE:
HPE_H0LP9S	16 Hours (2 days)	kr13,900.00

## Description

This course covers information and a range of administration actions executed on HPE SimpliVity systems using the SimpliVity vSphere and RapidDR User Interface to simplify and accelerate off-site DR through automation.

## Objectives

Upon completion of this training the participant will be able to:

- Describe the HPE SympliVity 380 product physical characteristics and software architecture
- Use the HPE SimpliVity 380 vSphere User Interface for management tasks
- Use RapidDR to reduce service disruptions by automating remote site recovery

## Audience

This course is intended for Infrastructure Administrators and System Engineers who are looking to learn how to administer HPE SimpliVity 380.

## Prerequisites

HPE recommends that students have attended the following courses or attained the following levels of experience before taking this class:

- Networking technologies
- VMware vSphere 6
- HPE ProLiant Servers

## Programme

## Module 1: HPE SimpliVity overview

- The data problem
- The evolution of hyperconvergence
- HPE SimpliVity use cases / key business challenges
- Data center consolidation
- Data protection and disaster recovery
- VDI
- ROBO
- Hyperconvergence in a hybrid cloud
- High performance All-Flash Storage
- HPE SimpliVity 380 HyperGuarantee
- What is an HPE SimpliVity 380 system
- HPE ProLiant DL380 Gen10
- Models
- Components
- Management (including iLO)
- HPE OmniStack Virtual Controller (OVC)
- HPE OmniStack Accelerator Card (OAC)
- Disk Controller (RAID controller)
- HPE SimpliVity system architecture
- Node
- Cluster
- Federation
- Global scale
- Arbiter
- HPE SimpliVity 380 Networks
- Federation network
- Management network
- Storage network
- Network configurations
- Network security

## Module 3: HPE SimpliVity data management

- HPE SimpliVity data paths
- HPE OmniStack system architecture
- Write I/O path
- Read I/O path
- Stretched clusters
- Data Resiliency - How is data protected
- Node-level resiliency
- Cluster-level resiliency
- Site-level protection
- RAIN + RAID overview
- Power resiliency
- Hardware RAID
- Preventing silent data corruption
- Enterprise-grade server platform resiliency
- HPE OmniStack Accelerator Card resiliency
  - Effects of a failure (what happens to the data)
  - Failover of the OVC IP
- OVC resiliency
  - Effects of a failure (what happens to the data)
  - Failover of the OVC IP
  - Recovering a failed OVC
- vCenter resiliency
- Single and linked mode
- Data locality
- Overview of data locality
- Advantages of full data localization
- Intelligent Workload Optimizer
  - Initial data placement
  - Integration with vSphere DRS

## Module 2: SimpliVity Data Virtualization Platform

- HPE SimpliVity 380 Data Virtualization Platform (DVP)
- Guaranteed data efficiency
- Deduplication and compression
- Built-in resiliency, backup, and disaster recovery
- Global VM-Centric management and mobility
- Data storage and VM cloning
- Writing data
- Remote backup
- HPE SimpliVity RapidDR
- Data virtualization platform deep dive
- Data presentation layer
- Data management layer
- File system
- Object Store I/O write path
- Cluster-level data management
- Federation-level data management
- Advantages
  - I/O and capacity reduction
  - Storage network
  - Faster backup, restore, and clone
  - Reduced WAN bandwidth
  - Lower RPO and RTO

## Module 4: HPE SimpliVity user interface overview

- Getting started
- Features within the vSphere Web Client
- How to maneuver through the vSphere Web Client
- vCenter inventory list
- The SimpliVity federation actions
- SimpliVity federation home tab
- Topology tab
- Throughput tab
- Backup consumption tab
- About tab
- Inventory lists

## Module 6: HPE SimpliVity backups

- SimpliVity backups
  - Overview
  - Manual backup
  - Application consistent backups
  - Managing backups
    - Backups view
    - Rename backup
    - Copy backup
    - Cancel backup
  - Backup retention time
  - Export backups
  - Delete backups
- Backup policies
  - SimpliVity backup policy overview
  - Backup frequency
  - Fixed default backup policy
  - Locking a policy-based backup
  - Creating backup policies and backup policy rules
  - Edit backup policy
  - Rename backup policy
  - Delete backup policy
  - Add backup policy
  - Apply backup policy

## Module 5: HPE SimpliVity Clusters and Datastores

- Clustersters
  - Exploring clusters
  - Customizing SimpliVity table data
  - Viewing capacity
  - Viewing performance
  - Searching backups
- Datastores
  - Creating a SimpliVity Datastore
  - Modifying a SimpliVity Datastore
  - Configuring ESXi access nodes
  - Configuration steps
  - NFS settings
  - Verifying HPE SimpliVity Datastore access

## Module 7: Other HPE SimpliVity features

- Hosts
- Virtual machines
  - HPE SimpliVity restore
  - SimpliVity restore overview
  - Finding a backup
  - Creating a new virtual machine
  - Replacing an existing virtual machine
- SimpliVity file level restore
  - Permissions and security
  - Limits
  - Partitions
  - Restoring files steps
- SimpliVity clone
  - SimpliVity clone overview
  - SimpliVity clone a virtual machine
  - VAAI and VMware clone
- SimpliVity move
  - SimpliVity move overview
  - SimpliVity move a virtual machine
- VM templates
  - Moving an HPE SimpliVity node between clusters
- HPE OmniStack Virtual Controller (OVC) shut down
  - Safe shut down preparation
  - Other safe shut down considerations

## Module 9: HPE SimpliVity 380 services and support

- HPE SimpliVity support plans
  - Accessing support
  - Accessing updates
  - Customer self repair
  - Remote support
- HPE SimpliVity 380 hardware services
  - Phone home - HPE OmniWatch
  - Support capture file
  - Alarm and events overview
  - SimpliVity Datastores overview

## Module 8: Extending HPE SimpliVity 380

- REST API
  - REST overview
  - HPE SimpliVity REST API functions
  - HPE SimpliVity REST API examples
- HPE SimpliVity CLI
  - Prerequisites for using the CLI
  - Access through the Virtual Controller Console
  - Access through a Terminal Emulator
  - CLI Command privileges
  - CLI Command format and examples
- HPE SimpliVity RapidDR
  - What is RapidDR and how does it work?
  - RapidDR requirements
  - RapidDR configuration guidelines

### SimpliVity overview

- Accessing the HPE vLabs environment
- HPE SimpliVity user interface
- HPE SimpliVity federation home page

### Lab outline • Backup policies

### Clusters

- Monitor tab
- Top contributors
- Manage tab
- Related Objects tab

	Virtual machines	
	• Backup virtual machine	
	• Search backups	
	• Restore virtual machine	
	• Replace existing virtual machine	
	• Restore files	
	• Rename backup	
Datastores	• Copy backup	
• Online resize	• Lock backup	
• Set default backup policy	• Set retention time	
• Delete Datastore	• Calculate unique backup size	Clone and move
• Manage standard ESXi hosts	• Export backups	• Clone virtual machine
• Additional Datastore information	• Delete backup	• Move virtual machine
Creating and using HPE SimpliVity VM templates Using HPE SimpliVity CLI Using HPE SimpliVity REST API through PowerShell		
Using HPE SimpliVity RapidDR		

## Session Dates

På begäran, [kontakta oss](#)

## Ytterligare information

[Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.](#)