



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

---

**Du kan nå oss här**

Kronborgsgränd 7, 164 46 Kista

Email: [edu.ecs.se@arrow.com](mailto:edu.ecs.se@arrow.com)

Phone: +46 8 555 188 00

<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
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
    - Copy backup
    - Lock backup
    - Set retention time
    - Calculate unique backup size
    - Export backups
    - Delete backup
  - Datastores
    - Online resize
    - Set default backup policy
    - Delete Datastore
    - Manage standard ESXi hosts
    - Additional Datastore information
  - Clone and move
    - Clone virtual machine
    - 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.](#)