

# Tytuł szkolenia: HPE SimpliVity System Administration

Kod szkolenia: H0LP9S

## Wprowadzenie

This course provides information and hands-on exercises for management of HPE SimpliVity. It also includes information and hands-on exercises for using HPE SimpliVity RapidDR software that simplifies and accelerates offsite DR through automation. The course covers a range of administration actions executed on HPE SimpliVity system with the SimpliVity VMware vSphere® and RapidDR user interface.

## Adresaci szkolenia

This course is intended for infrastructure administrators and system engineers who need to learn how to administer HPE SimpliVity.

### Prerequisites

HPE recommends that students attend training or attain experience in the following areas before taking this class:

- Networking technologies
- VMware vSphere 6+
- HPE ProLiant servers

## Cel szkolenia

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

- Describe the various components that form the HPE SimpliVity Federation
- Distinguish between peer-managed and centrally-managed SimpliVity Federations
- Identify how VM data is stored across HPE SimpliVity Clusters
- Create datastores and perform different tasks associated with SimpliVity datastores
- Explain the various 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 reduce service disruptions by automating remote site recovery

## Czas i forma szkolenia

- 14 godzin (2 dni x 7 godzin), w tym wykłady i warsztaty praktyczne.

## Plan szkolenia

### Module 1 – Introduction to HPE SimpliVity

- HPE SimpliVity's HyperGuarantee
- Business reasons for using HPE SimpliVity
- Core features built into the SimpliVity solution via the Data Virtualization Platform
- HPE SimpliVity use cases and the shift to Intelligent HCI

### Module 2 – HPE SimpliVity Architecture

- Deep understanding of the HPE SimpliVity Data Virtualization Platform

- Elements within an HPE SimpliVity Federation
- Basic concepts of a datacenter and cluster within the SimpliVity Federation
- Levels of resiliency built into the SimpliVity solution
- VM data locality in the HPE SimpliVity Federation

#### **Module 3 – HPE SimpliVity Portfolio**

- Categorization of the various HPE SimpliVity hardware models and their supported configurations
- Tracing the read/write IO paths for different HPE SimpliVity models
- Explanation of how the tiered storage implementation works
- Different networks that are used in HPE SimpliVity Federation
- Generic sizing guidelines for HPE SimpliVity

#### **Module 4 – Working with HPE SimpliVity**

- HPE SimpliVity management interfaces (GUI, CLI and REST API)
- HPE SimpliVity Datastores and the operations permitted
- Configuration required for access nodes
- Performing HPE SimpliVity backups
- Creating HPE SimpliVity backup policies
- Managing and monitoring virtual machines in a SimpliVity Federation
- Performing restores using HPE SimpliVity backups
- File level restores
- Backups on external stores for restore operations
- Using HPE SimpliVity RapidDR

#### **Module 5 – HPE SimpliVity Maintenance**

- Maintaining HPE SimpliVity hosts and Virtual Controllers
- HPE SimpliVity alarms and events in VMware vCenter®
- Procedure to create an HPE SimpliVity support capture
- Reports that are available through HPE InfoSight for SimpliVity
- How to contact HPE support and find relevant documentation

#### **Lab 1 – HPE SimpliVity Overview**

- Accessing the HPE Virtual Labs environment
- Navigating through the HPE SimpliVity HTML5 GUI
- Identifying key components of HPE SimpliVity's hyper convergence solution
- Accessing the external HPE StoreOnce backup system
- Accessing the CLI and REST API programmable interfaces

#### **Lab 2 – HPE SimpliVity Backup Policies**

- Accessing backup policies
- Creating backup policies
- Editing backup policies
- Accessing backup policies using the CLI

#### **Lab 3 – HPE SimpliVity Clusters and Datastores**

- Using clusters
- Using datastores
- Performing various administrative tasks on clusters and datastores
  - Resize datastore
  - Set default backup policy
  - Delete datastore
  - Manage standard ESXi hosts
  - Adding single replica datastores (from the CLI)
  - Using an external store - HPE StoreOnce

#### **Lab 4 – HPE SimpliVity Management**

- Backing up virtual machines
- Searching backups

- Restoring virtual machines
- Replacing an existing virtual machine
- Restoring files
- Cloning virtual machines
- Moving virtual machines
- Using virtual machine templates

**Lab 5 – HPE SimpliVity RapidDR and Support Capture File**

- Creating a support capture file for troubleshooting
- Using HPE SimpliVity RapidDR for recovery
- Creating an HPE SimpliVity RapidDR recovery configuration
- Testing the recovery process