Szkolenie: HPE

HPE Alletra 6000 and HPE Alletra 5000 Integration

Cel szkolenia:

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.

Course objectives

After completing this course, you 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

Audience

Storage administrators who desire additional training on the integration features of HPE Alletra 5000 and 6000 storage arrays.

Plan szkolenia:

- Course Overview
  - Introduction

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- Agenda
- Windows Integration
  - HPE Storage Toolkit for Windows
  - HPE Storage Connection Manager for Windows
  - Microsoft Volume Shadow Copy Service
  - PowerShell cmdlets
  - Diagnostic Tools
  - Windows Space reclamation
- Linux Integration
  - HPE Storage Toolkit for Linux
  - HPE Storage Connection Manager for Linux
  - HPE Storage Oracle Application Data Manager
  - Linux space reclamation
- VMware Integration
  - HPE Storage Connection Manager for VMware
  - HPE Alletra 5000 and 6000 VMWare vCenter® Plugin
  - VMware space reclamation
  - VMware Synchronized Snapshots
  - VMware vVols
  - VMware vSphere Metro Storage Cluster with Peer Persistence overview
  - vCenter Site Recovery Manager™ overview
- Containers and Kubernetes
  - Containers overview and introduction
  - Kubernetes introduction
  - Container Storage Interface (CSI)
  - Implementation examples
  - Use cases
  - Cabling topologies
  - The use of dHCI compute nodes’ ports
  - Cabling and networking examples
- Backup Integration: Veeam Backup & Replication
  - Introduction
  - Traditional and storage snapshot-powered backups
  - Backup from local replicas
  - Backup from remote replicas
  - Instant VM Recovery from HPE Storage Snapshot

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- Veeam DataLabs from HPE Storage snapshot
- Lab 1: Working with Windows Integrations
  - Task 1: Working with HPE Storage Toolkit PowerShell cmdlets
  - Task 2: Using HPE Storage diagnostic tools
- Lab 2: Working with Linux Integrations
  - Task 1: Configure Linux iSCSI initiator
  - Task 2: Create an initiator group for the Linux host
  - Task 3: Create a volume for the Linux host
  - Task 4: Perform iSCSI discovery, work with multipathing, and configure the disk device
- Lab 3: Working with VMware Integrations
  - Task 1: HPE Storage Connection Manager for VMware
  - Task 2: Setting up vVols on HPE Alletra 5000 and HPE Alletra 6000
  - Task 3: Using the HPE Storage vCenter plugin
  - Task 4: Creating a vVol container on an HPE Alletra 6000 array and vVol datastore
  - Task 5: Working with policy-based storage provisioning
  - Task 6: Deploying and working with a vVol-based VM
- Lab 4: Working with Veeam Integrations
  - Task 1: Initial Veeam and HPE Alletra preparation
  - Task 2: Creating backups using Veeam and HPE Alletra
  - Task 3: Instant Virtual Machine Recovery with HPE Alletra
- Lab 5: Using the REST API
  - Task 1: Connect to the storage array and display token with PowerShell
  - Task 2: List volumes with PowerShell
  - Task 3: Create a volume with PowerShell
  - Task 4: Snapshot a volume with PowerShell
  - Task 5: Using cURL to manage resources

Wymagania:

Prior to attending this course, students should complete one of the following courses:

- Managing HPE Alletra 6000 and HPE Alletra 5000 (H61N2S)
- Managing HPE Alletra 6000 and HPE Alletra 5000 eLearning (H61N2AAE)

Poziom trudności



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Certyfikaty:

The participants will obtain certificates signed by HPE (course completion).

Prowadzący:

Authorized HPE Trainer.

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