Szkolenie: HPE
Managing HPE StoreOnce Backup Solutions

Cel szkolenia:

Managing HPE StoreOnce Backup Solutions covers the HPE StoreOnce backup products, including single node appliances, clustered appliances, and the Virtual SAN Appliance (VSA). In this course, you will learn about the range of products in the product line, and understand their concepts, installation, and use. The course also includes hands-on labs using HPE StoreOnce appliances. This course is updated to include the new and advanced features of the products.

Course objectives

After completing this course, you should be able to:

- Describe major hardware and software components of the HPE StoreOnce product line
- Describe important HPE StoreOnce product concepts
- Explain the importance and advantages of deduplication
- Configure HPE StoreOnce devices for initial use
- Create Virtual Tape Libraries (VTL) and NAS shares
- Configure replication between two HPE StoreOnce devices
- Configure HPE StoreOnce Catalyst Stores
- Perform basic troubleshooting and maintenance procedures

Audience

This course is ideal for HPE StoreOnce customers, HPE services field engineers, call center staff, presales and channel partners, and other field personnel who provide installation and/or operational support assistance.

Plan szkolenia:

- Managing HPE StoreOnce Backup Solutions
  - Course introduction
  - Managing HPE StoreOnce Solutions class agenda

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- Product Introduction
  - HPE StoreOnce backup systems
  - New HPE StoreOnce product features and benefits
  - HPE StoreOnce family comparison-features in HPE StoreOnce models
  - HPE StoreOnce Gen4 Virtual Storage Appliance (VSA)
  - HPE StoreOnce licenses
- Installation
  - Installing HPE StoreOnce devices
  - Available connections
  - Network/iSCSI modes of operation
  - Single port and dual port modes
  - Fibre channel
  - Initial configuration process
  - HPE StoreOnce Gen4 firmware
- Web Management Interface
  - HPE StoreOnce GUI
  - HPE StoreOnce GUI-left-hand menu
  - HPE StoreOnce GUI-federation dashboard
  - HPE StoreOnce GUI-system dashboard
  - HPE StoreOnce GUI-event log
  - HPE StoreOnce GUI-settings
  - HPE StoreOnce GUI-hardware
  - HPE StoreOnce GUI-settings - security
- Virtual Tape Libraries
  - HPE StoreOnce (D2D) backup systems
  - Choosing VTL vs. NAS
  - Virtual Tape Libraries (VTL)
  - iSCSI and fibre channel connections to VTL
  - Flexible emulations
- Basic HPE StoreOnce Catalyst
  - HPE StoreOnce Catalyst overview and API
  - ISV control of replication
  - HPE StoreOnce with HPE GreenLake for Backup and Recovery
  - Zerto long-term retention architecture
  - HPE StoreOnce Catalyst with Veeam
  - HPE StoreOnce Catalyst with Commvault

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- HPE StoreOnce Catalyst with HPE Data Protector
- Deduplication options for low and high bandwidth transfers
- What is new in HPE StoreOnce Catalyst?

- NAS Shares
  - NAS shares and server configuration
  - NAS share authentication
  - HPE StoreOnce NAS limitations
- HPE StoreOnce Deduplication
  - Deduplication-what it is and key benefits
  - Deduplication-data locality and ratios
  - Housekeeping
- Catalyst Copy and Replication Using VTL and NAS Shares
  - HPE StoreOnce Catalyst Copy
  - Low-bandwidth-multi-hop
  - Definition and replication granularity
  - Replication fan-out and fan-in
  - Bi-directional replication
  - Seeding the replication target
  - Replication recovery
  - Making replication targets visible to host
  - NAS replication and “seeding”
  - VTL and NAS replication and configuration
- HPE StoreOnce Reporting and Appliance Federation
  - Reporting
  - Device selection example
  - Viewing reports
  - HPE Infosight
  - Next generation HPE StoreOnce-management federation
  - Overlapping federation scenario
  - Creating a federation
  - Different federation topologies
  - Recommended networking topology
  - System dashboard
  - HPE StoreOnce High Availability Manager overview
- Cloud Bank and HPE StoreOnce Catalyst Advanced Features
  - HPE StoreOnce Catalyst Cloud Bank and advanced features

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- CloudBank use cases
- CloudBank configuration
- CloudBank disaster recovery
- HPE StoreOnce Catalyst Copy over fibre channel
- HPE StoreOnce Catalyst Copy over fibre channel-use cases

- Best Practices
  - General best practices
  - Flexible emulations best practices
  - HPE StoreOnce replication best practices
  - Virtual Storage Appliance (VSA) implementation
  - Virtual tape library best practices
  - NAS share best practices
  - Deduplication best practices
  - Physical tape offload methods
  - Security
  - Directory authentication
- Troubleshooting and Remote Support
  - Backup or disk space problems
  - Capacity thresholds
  - Remote support via STATS (RSvS)
  - Tools and updates
  - Configuration and software updates-improved processes
  - HPE StoreOnce Gen4 software upgrade
  - REST API developer kit
  - Reference documentation
- Appendix A: StoreOnce Generation 3
  - HPE StoreOnce portfolio-comparing Gen4 and Gen3
  - HPE StoreOnce emulation specifications
  - HPE StoreOnce-web management GUI
  - HPE StoreOnce integrated graphical reporting
  - Discuss HPE StoreOnce B6000 operations
  - HPE StoreOnce B6000 terminology
- Appendix B: HPE StoreOnce Recovery Manager Central (RMC)
  - What is HPE StoreOnce Recovery Manager Central (RMC)?
  - HPE StoreOnce Recovery Manager Central-key benefits
  - HPE StoreOnce Recovery Manager Central concepts and components

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- HPE StoreOnce Recovery Manager Central architecture
- Element Recovery (ERT) with HPE StoreOnce data path
- HPE StoreOnce Recovery Manager Central data protection deployment
- HPE 3PAR/HPE StoreOnce storage integration

- Appendix C: High Availability Manager
  - High Availability Manager overview
  - High Availability Manager concept
  - High Availability Manager limits
  - Validation pre-checks
  - Monitored status
  - High Availability Manager Warranty Serial Number (WSN)
  - High Availability Manager failover check
  - High Availability VSA-failover triggers
  - Logging for High Availability Manager
- Lab 0: Lab Overview
- Lab 1: Configure an HPE StoreOnce backup system with storage and first-time configuration
  - License the HPE StoreOnce appliance
- Lab2: Configure the HPE StoreOnce backup system
  - HPE StoreOnce Configuration using the Management GUI
  - Create a virtual tape library (VTL)
  - Create a NAS share
- Lab 3: Backup to a VTL on HPE StoreOnce using Veeam and NAS using Windows backup
  - Virtual tape library backup in Veeam
  - Configure a virtual tape library in Veeam
  - Back up to a VTL on the StoreOnce using Veeam
  - Back up the files in Veeam
  - Let’s do more backups
  - Use a NAS share with Windows Backup
- Lab 4: Data deduplication
  - View deduplication report
- Lab 5: Use the HPE StoreOnce GUI to create a HPE StoreOnce Catalyst Store and add it to Veeam as a backup repository
  - Introduction to HPE StoreOnce Catalyst
  - Terminology
  - Hands-on lab introduction
  - Hands-on lab sequence

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- HPE StoreOnce Catalyst licensing
- Add the HPE StoreOnce Catalyst Store to Veeam and perform backups
- Create a backup job to back up data to an HPE StoreOnce Catalyst store

- Lab 6: Data replication
  - Overview
  - Creating VTL and NAS shares on the target replication appliance
  - Configure replication from your local HPE StoreOnce appliance
  - Virtual tape library (VTL) mapping
  - Configure replication of all the files on the NAS share
  - Testing the replication of NAS and VTL
- Lab 7: HPE StoreOnce Catalyst Copy within Veeam
  - Create a Catalyst store
  - Create a backup copy
- Lab 8: Reports and federation
  - Review Reports
  - Custom graphs
  - Federation

Wymagania:

Before attending this course, you must have:

- Basic Windows administration experience
- Basic understanding of SCSI, iSCSI, RAID, fibre channel, backup, and SAN technologies

Poziom trudności



Certyfikaty:

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

Prowadzący:

Authorized HPE Trainer.

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