Szkolenie: HPE

Managing Zerto: Setup, Protection, and Recovery

Cel szkolenia:

The Managing Zerto: Setup, Protection, and Recovery course prepares beginner to intermediate Zerto users to deploy, configure, and manage the solution in VMware vSphere® environments. Ideal for hands-on practitioners, the training focuses on core concepts and components with Zerto, including material on the major recovery operations such as failovers, tests, and restores. Hands-on labs are included to give learners firsthand experience with setup and protection, plus instant recovery from ransomware after a simulated infection.

Course objectives

By the end of this class, you should be able to:

- Articulate the top use cases Zerto supports and what architectures are needed for each
- Describe the major Zerto components and how they interoperate
- Install, set up, and configure Zerto in a vSphere environment
- Protect virtual machines replicating locally and to a secondary peer site
- Perform the most common recovery operations, including file restores, failover tests, live failover, and moves

Audience

- Zerto customers
- Zerto partners

Plan szkolenia:

- Zerto Overview
  - Define Zerto platform
  - Explain Zerto platform functionalities
  - Zerto components
  - Architecture

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- The Zerto Virtual Manager (ZVM)
  - Overview
  - Requirements
  - Compare Zerto Virtual Manager (ZVM) and Zerto Cloud Appliance (ZCA)
  - Installation requirements
  - Installation considerations
  - Installation options
  - Best practices
- Virtual Replication Appliances (VRAs)
  - Define Virtual Replication Appliances (VRA)
  - Virtual Replication Appliances (VRA) requirements
  - Source and target VRAs
  - Zerto data path
  - VRA cluster deployment
- Journal
  - Journal overview
  - Journal process
  - Elastic Journal overview
  - Journal settings
  - Journal sizing
  - I/O considerations
  - Estimating Journal sizing
  - Checkpoint overview
  - Creating checkpoint
  - Write-order fidelity
- Virtual Protection Groups (VPG)
  - Types of VPGs
  - Process
  - Setting a VPG
  - Creating a VPG
  - One-to-many overview
  - Local continuous backup
  - Effective cloud utilization
  - VPG replication prioritization overview
  - VPG replication prioritization in GUI
- Zerto Replication

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- Replication types
- Zerto Virtual Replication (ZVR) syncs overview
- Initial sync workflow
- Initial sync details
- Continuous data protection workflow
- Continuous data protection details
- Bitmap sync workflow
- Bitmap sync details
- Delta sync workflow
- Delta sync details

- Long-term Retention (LTR)
  - Overview
  - Architecture
  - LTR with Amazon S3
  - LTR with Microsoft Azure
  - LTR repository
  - LTR disk object map
  - LTR process
  - LTR scale-out-write
  - Continuous data protection (CDP) with LTR
  - LTR scale-out-read
  - Index and search overview
  - Index and search architecture
  - Recovery with LTR
  - LTR use cases
  - Data protection workflows
  - Disaster recovery and backup
  - Immutability overview
  - Tiering overview
  - HPE StoreOnce overview
  - HPE StoreOnce and Zerto
- Zerto Analytics (ZA)
  - Zerto Analytics overview
  - Zerto Analytics secure architecture
  - Zerto Resource Planner overview
  - Zerto Resource Planner requirements

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- Zerto Resource Planner process
- Using Zerto Resource Planner

- Recovery Operations: Restores
  - Recovery operations overview
  - Recovery operations key concepts
    - Scratch disks
    - Commit policies
    - Reserve protection
  - Restore from Journal
  - Instant virtual machine (VM) recovery
  - Instant file and folder restore
- Recovery Operations: Test Failover
  - Overview
  - Process
  - Recovery report
  - Test failover uses
  - Scratch disk
    - Overview
    - Size and location
    - Failover test
    - Failover live and move
- Recovery Operations: Live Failover
  - Overview
  - Prerequisites
  - Parameters
  - Process
  - Commit policy
    - Overview
    - Example
    - None
    - Auto-commit
    - Auto-rollback
    - Considerations
  - Virtual machine (VM) shutdown overview
  - Reserve protection overview
- Recovery Operations: Move

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- Overview
- Move parameters
  - Commit policy
  - Force shutdown
  - Reserve protection
  - Keep source virtual machines (VM)s
- Move process

- Lab 1: Express Installation
- Lab 2: License and Pair Zerto Sites
- Lab 3: Virtual Replication Appliance Installation on Each Host
- Lab 4: Create a Virtual Protection Group
- Lab 5: Use Zerto Analytics to Review and Monitor Protection
- Lab 6: Failover Test
- Lab 7: Recovery Reports
- Lab 8: Create One Last Virtual Protection Group
- Lab 9: Copy a Virtual Protection Group
- Lab 10: Create a Preseeded Virtual Protection Group
- Lab 11: Create a Locally Protected VPG
- Lab 12: Edit a Virtual Protection Group and Add a VM
- Lab 13: Restore Files and Folders
- Lab 14: Failover Test
- Lab 15: Perform a Live Failover
- Lab 16: Perform a Move Operation

Wymagania:

No prior Zerto experience is required. The class assumes familiarity with VMware vSphere® and virtualization technologies.

Poziom trudności



Certyfikaty:

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

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Prowadzący:

Authorized HPE Trainer.

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