

Managing Zerto: Setup, Protection, and Recovery H61K2S

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| HPE course number | H61K2S |
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| Delivery mode | ILT, VILT |
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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.

Audience

- Zerto customers
- Zerto partners

Prerequisites

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

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

Detailed course outline

Module 1: Zerto Overview

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

Module 2: 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

Module 3: Virtual Replication Appliances (VRAs)

- Define Virtual Replication Appliances (VRA)
- Virtual Replication Appliances (VRA) requirements
- Source and target VRAs
- Zerto data path
- VRA cluster deployment

Module 4: 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

Module 5: 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

Module 6: Zerto Replication

- 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

Module 7: 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

Module 8: Zerto Analytics (ZA)

- Zerto Analytics overview
- Zerto Analytics secure architecture
- Zerto Resource Planner overview
- Zerto Resource Planner requirements
- Zerto Resource Planner process
- Using Zerto Resource Planner

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| Module 9: Recovery Operations: Restores | <ul style="list-style-type: none"> • Recovery operations overview • Recovery operations key concepts <ul style="list-style-type: none"> – Scratch disks – Commit policies – Reserve protection | <ul style="list-style-type: none"> • Restore from Journal • Instant virtual machine (VM) recovery • Instant file and folder restore |
| Module 10: Recovery Operations: Test Failover | <ul style="list-style-type: none"> • Overview • Process • Recovery report • Test failover uses | <ul style="list-style-type: none"> • Scratch disk <ul style="list-style-type: none"> – Overview – Size and location – Failover test – Failover live and move |
| Module 11: Recovery Operations: Live Failover | <ul style="list-style-type: none"> • Overview • Prerequisites • Parameters • Process • Commit policy <ul style="list-style-type: none"> – Overview – Example | <ul style="list-style-type: none"> – None – Auto-commit – Auto-rollback – Considerations • Virtual machine (VM) shutdown overview • Reserve protection overview |
| Module 12: Recovery Operations: Move | <ul style="list-style-type: none"> • Overview • Move parameters <ul style="list-style-type: none"> – Commit policy – Force shutdown | <ul style="list-style-type: none"> – Reserve protection – Keep source virtual machines (VM)s • Move process |

Detailed lab outline

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

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