Hewlett Packard Enterprise

Managing Zerto: Setup, Protection, and Recovery H61K2S

HPE course number	H61K2S
Course length	2 days
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, setup, 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 • Estimating Journal sizing • Checkpoint overview
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
Module 9: 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
Module 10: Recovery Operations: Test Failover	• Overview • Process • Recovery report • Test failover uses	• Scratch disk – Overview – Size and location – Failover test – Failover live and move
Module 11: Recovery Operations: Live Failover	• Overview • Prerequisites • Parameters • Process • Virtual machine (VM) shutdown overview	• Commit policy – Overview – Example – None – Auto-commit – Auto-rollback – Considerations • Reserve protection overview
Module 12: Recovery Operations: Move	• Overview • Move parameters - Commit policy - Force shutdown - 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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