



SECURITY SUMMIT

Security Summit

Milano 19-20-21 marzo 2024



Ransowmare:

La Cyber Resilience di Zerto per ridurre i tempi di inattività in caso di attacchi

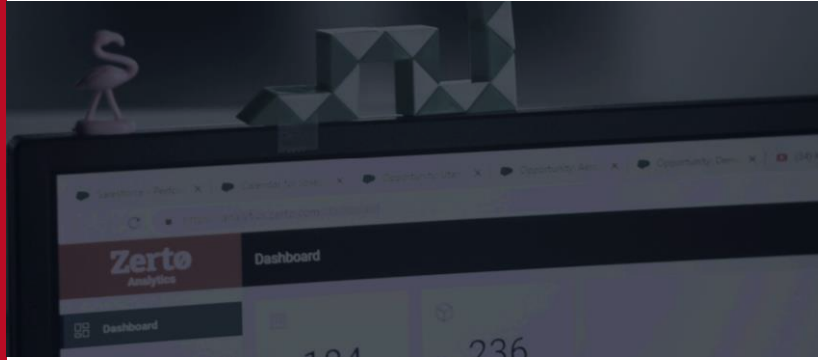
Manolo Rizzuto, EMEA Presales Engineer, Zerto, a Hewlett Packard Enterprise Company

19 marzo 2024 orario 14.00-14.40



WHAT WE DO

Protect, recover, and move data and applications for **continuous availability** across on-premises, hybrid, and multi-cloud environments



ESTABLISHED
2009

Offices Worldwide

PARTNERS
2,000

Including Amazon,
IBM, Microsoft, and
350+ MSPs

CUSTOMERS
9,500

100+ Countries

CONTINUOUS PROTECTION FOR ANY APP, ANY CLOUD, ANY THREAT

Orchestration | Automation | Analytics



Ransomware Resilience

Real-time detection meets real-time protection and recovery



Disaster Recovery

Foolproof recovery with fastest RTOs and RPOs



Multi-Cloud Mobility

Freedom to innovate across clouds

Continuous Data Protection



Analytics

Orchestration & Automation

Fast Failover & Failback

Automated Protection

API-First

Continuous Data Protection

Near-Synchronous Replication

Journal-Based Recovery

App-Centric Protection

Real-Time Encryption Detection

vmware

Microsoft Azure

aws

IBM Cloud

ORACLE
CLOUD

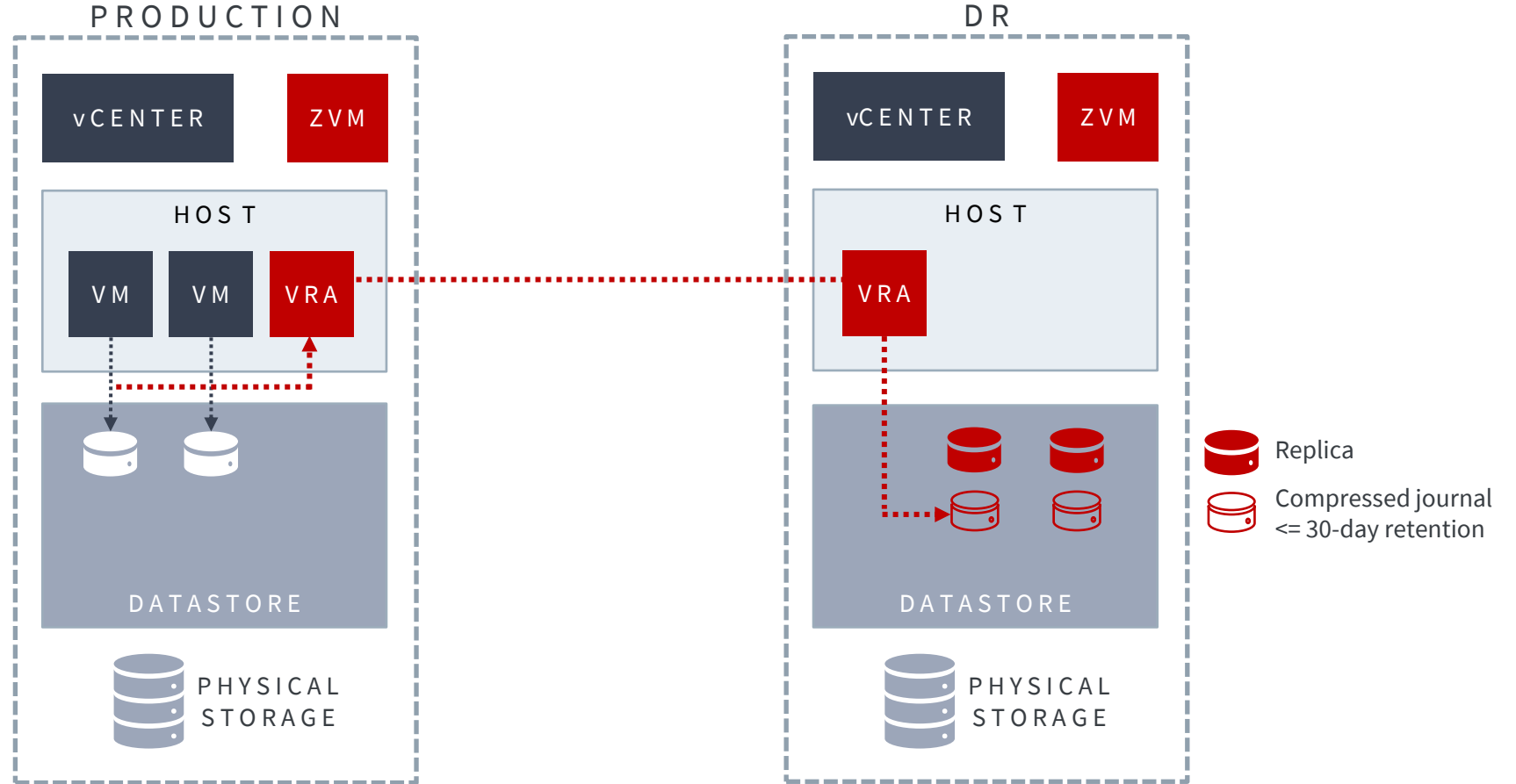
Hewlett Packard
Enterprise

MSP

Google Cloud

Zerto Architectures

Continuous replication to disaster recovery site



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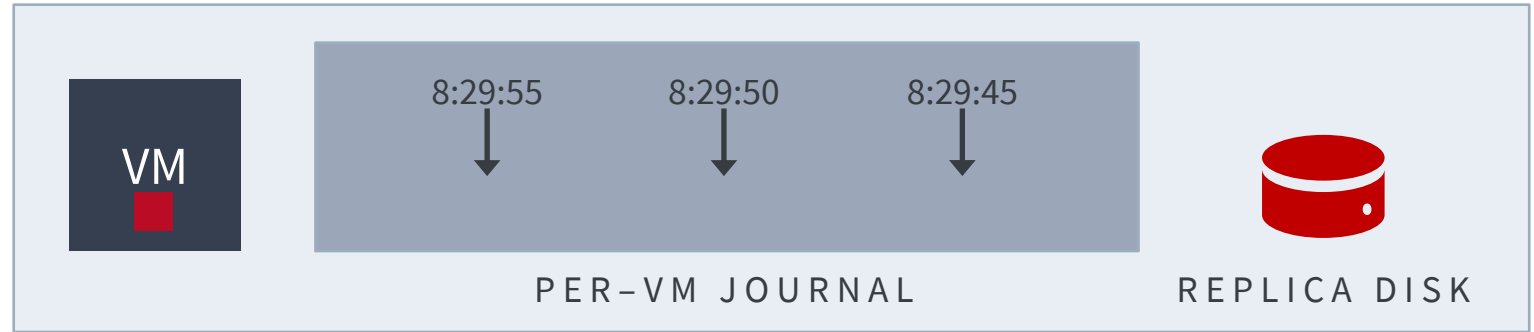
MSP

Google Cloud

Journal-Based Recovery

1

Writes from the VM are written into the journal (FIFO queue), maintaining write-order fidelity. Checkpoints are inserted in flight.



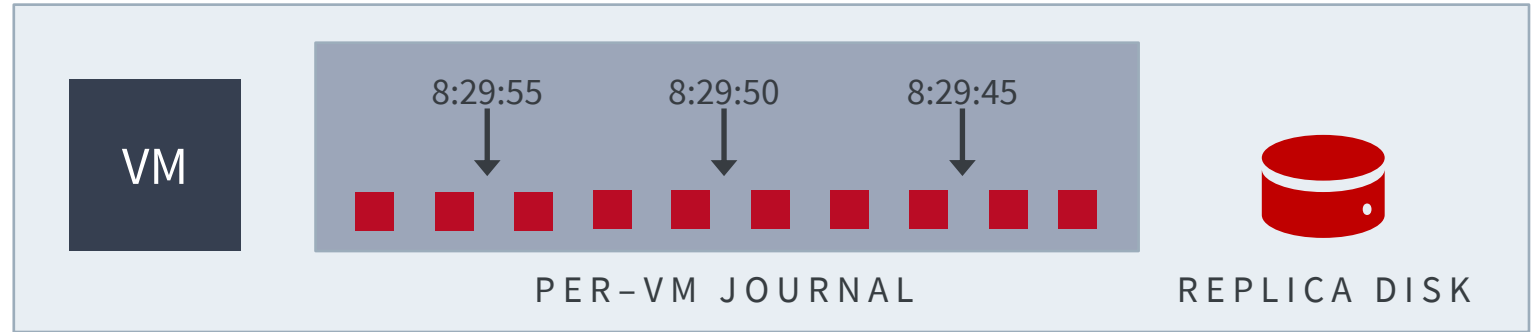
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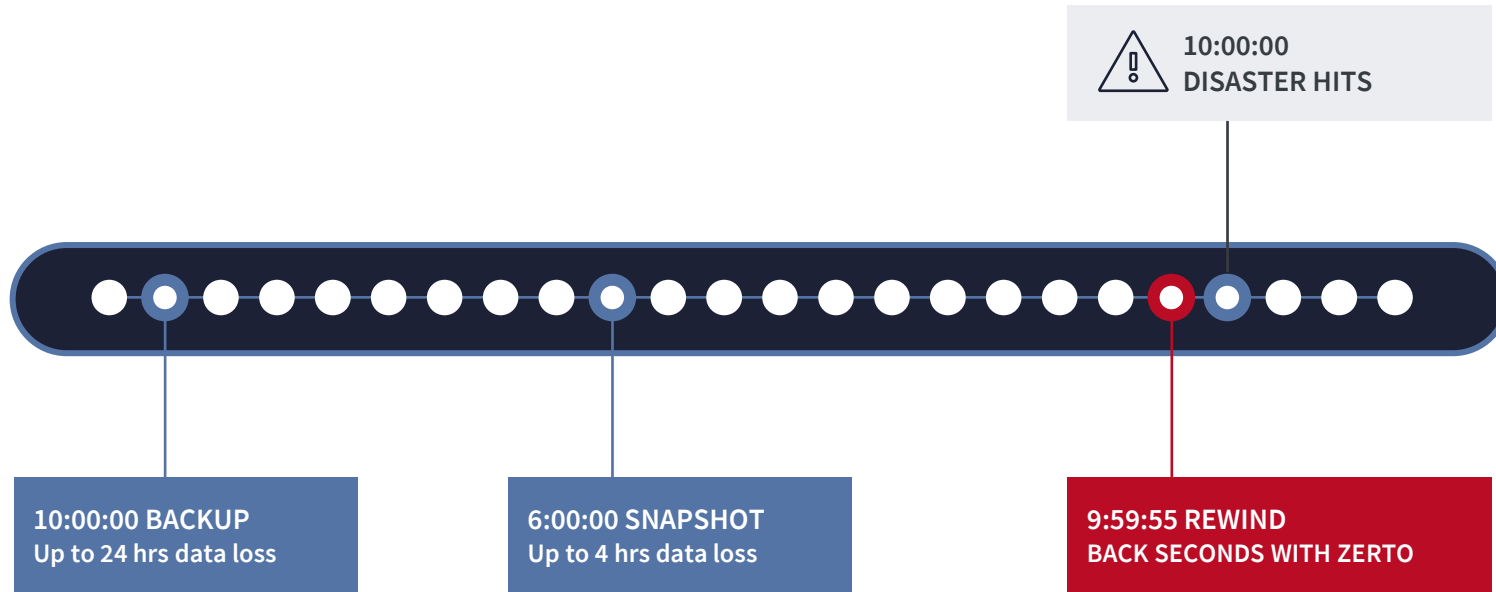
2

As new writes continue to enter the journal, older writes are pushed out to the replica disk(s).



UNIQUE JOURNALING

Granular, point-in-time recovery with the dynamic Zerto journal



RECOVER in minutes to a state seconds before an attack or disruption	MINIMIZE data loss & downtime with low RPOs and fast RTOs	NEUTRALIZE ransomware by refusing to pay and getting your data back
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JOURNAL-BASED RECOVERY

- ▶ Rewind and recover to any point in time

 Sites

 Apps

 VMs

 Files

Wordpress-Remote: Checkpoints ?

Select the VPG recovery point for the Failover Live

Latest ? December 6, 2022 10:14:29 AM

Latest Tagged Checkpoint ?

Latest VSS Checkpoint ?

Select from all available Checkpoints

Type: Multiple 12/06/2022

	Time	Name
<input checked="" type="radio"/>	December 6, 2022 10:14:29 AM	
<input type="radio"/>	December 6, 2022 10:14:24 AM	
<input type="radio"/>	December 6, 2022 10:14:19 AM	
<input type="radio"/>	December 6, 2022 10:14:14 AM	
<input type="radio"/>	December 6, 2022 10:14:09 AM	
<input type="radio"/>	December 6, 2022 10:14:04 AM	
<input type="radio"/>	December 6, 2022 10:13:59 AM	

Total Checkpoints: 1602

Cancel OK

JOURNAL TECHNOLOGY

- **Simply rewind to any point in time**
- **Protection against logical failures**
 - ▶ Not just disasters
- **Recover from seconds ago**
 - ▶ Not the last backup or snapshot
- **Application-centric protection**
 - ▶ With write-order fidelity
- **Recover multi-VM apps consistently**
 - ▶ Down to the second

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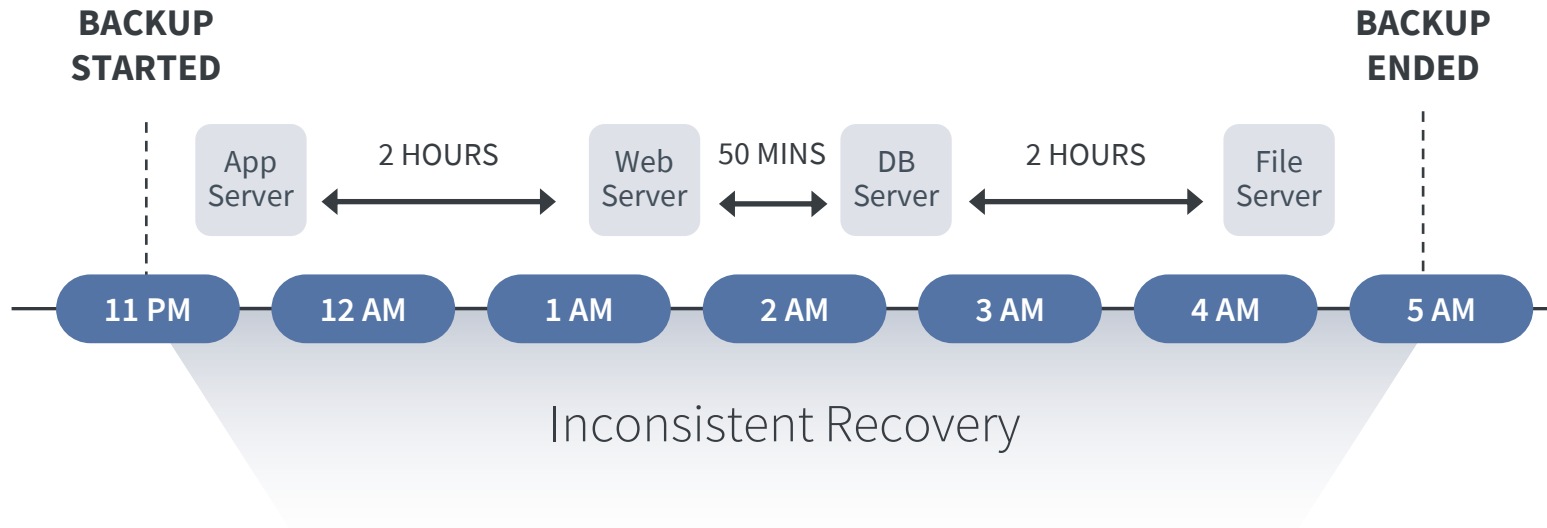
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Enterprise

MSP

Google Cloud

Application-Agnostic Protection

Legacy approaches leave protection gaps by not focusing on apps



Only VM- or LUN-level granularity



Staggered backup windows aren't designed for DR

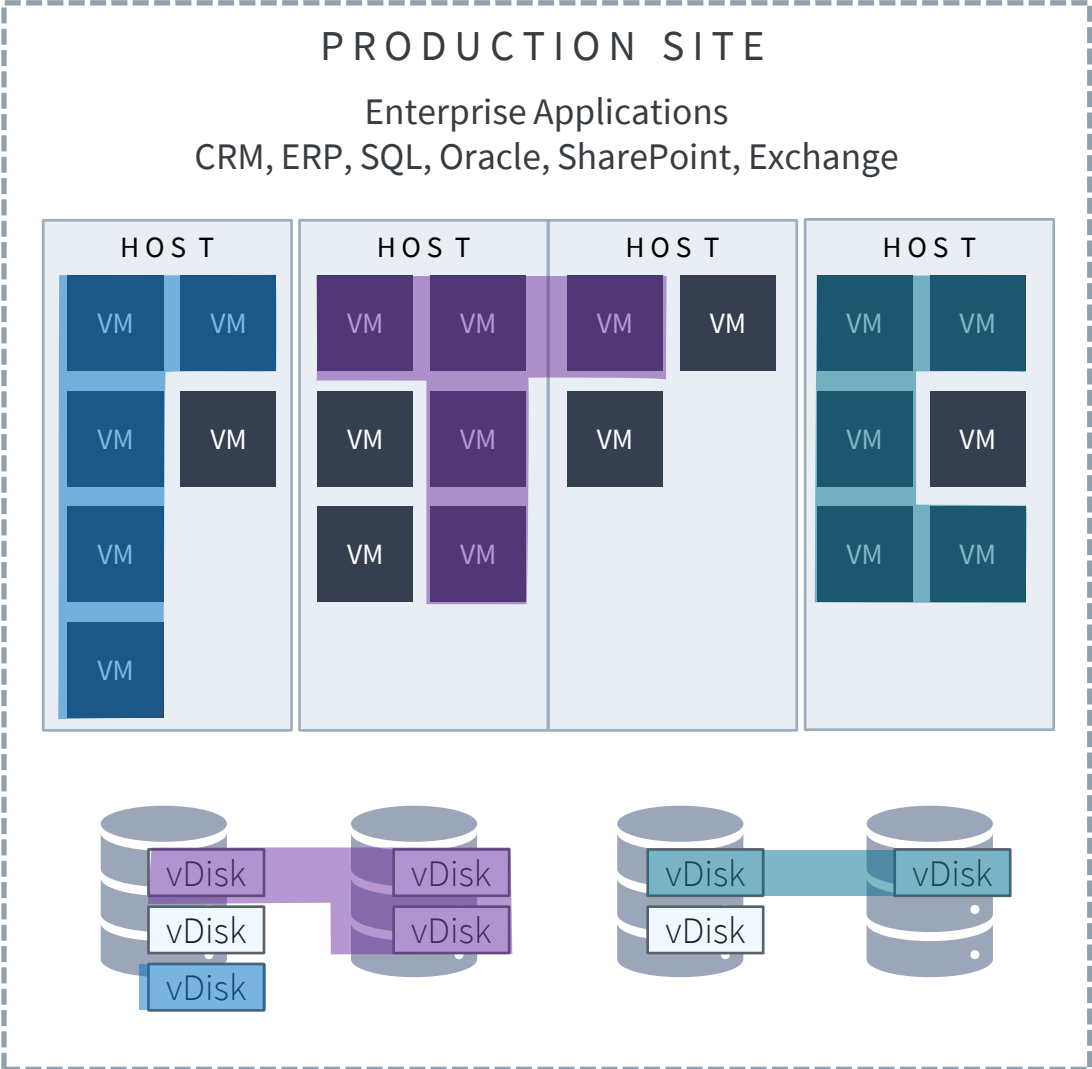


Misaligned recovery points = extended RTO

APPLICATION-CENTRIC PROTECTION

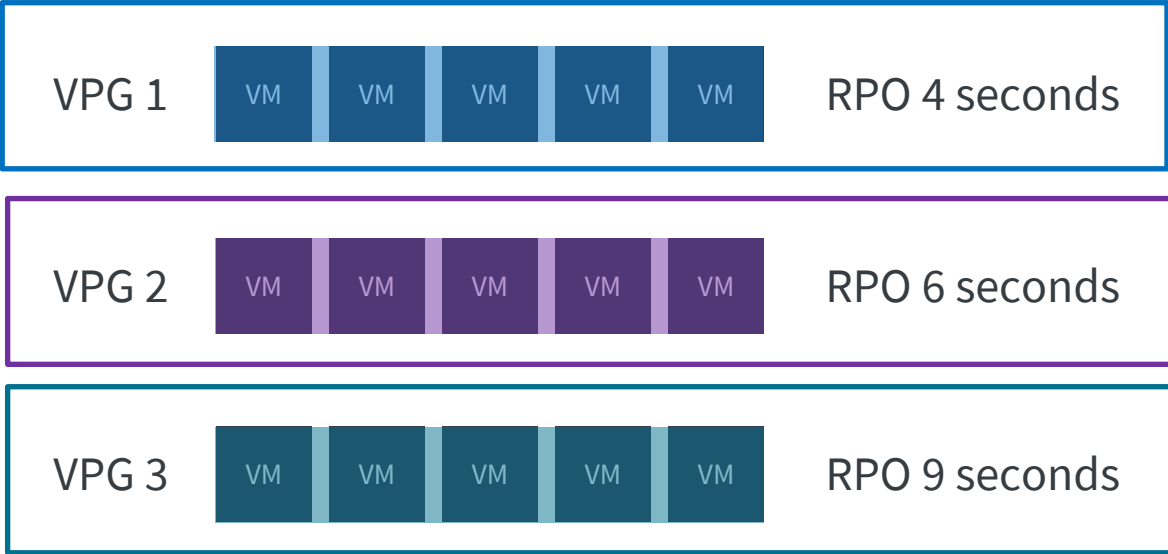
- ▶ Protect the application, not only the component parts

Application-Centric Protection and Recovery



Virtual Protection Group

- Simple, scalable protection
- Write-order fidelity and consistency
- Preconfigured with recovery settings
- Supports vMotion, Storage vMotion, etc.



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Unlock Streaming Inline Detection

Backup > Scan > Restore



Traditional Backup

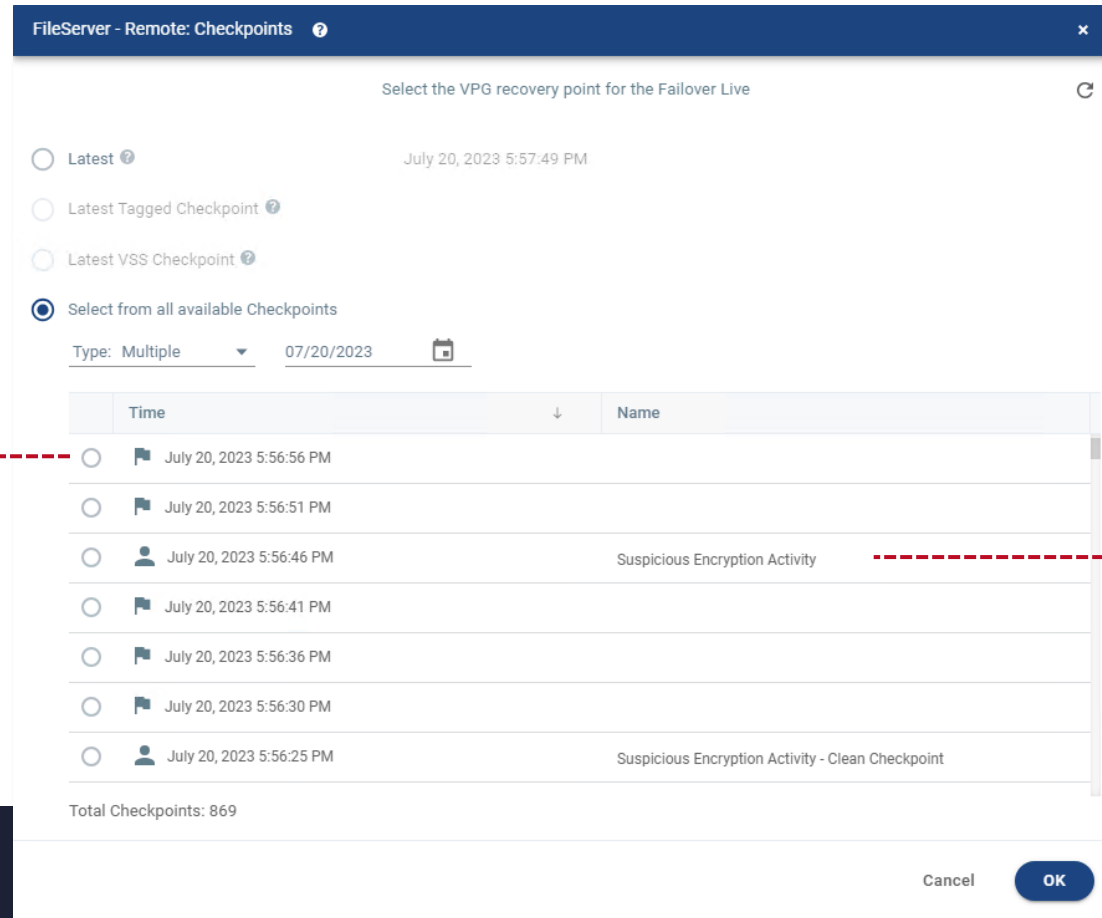


Zerto Real-Time Detection

Real-time detect > Upstream alert > Live test > Direct recovery

Replicate and Detect

Replicate every change and log as recovery checkpoints every 5-15 seconds

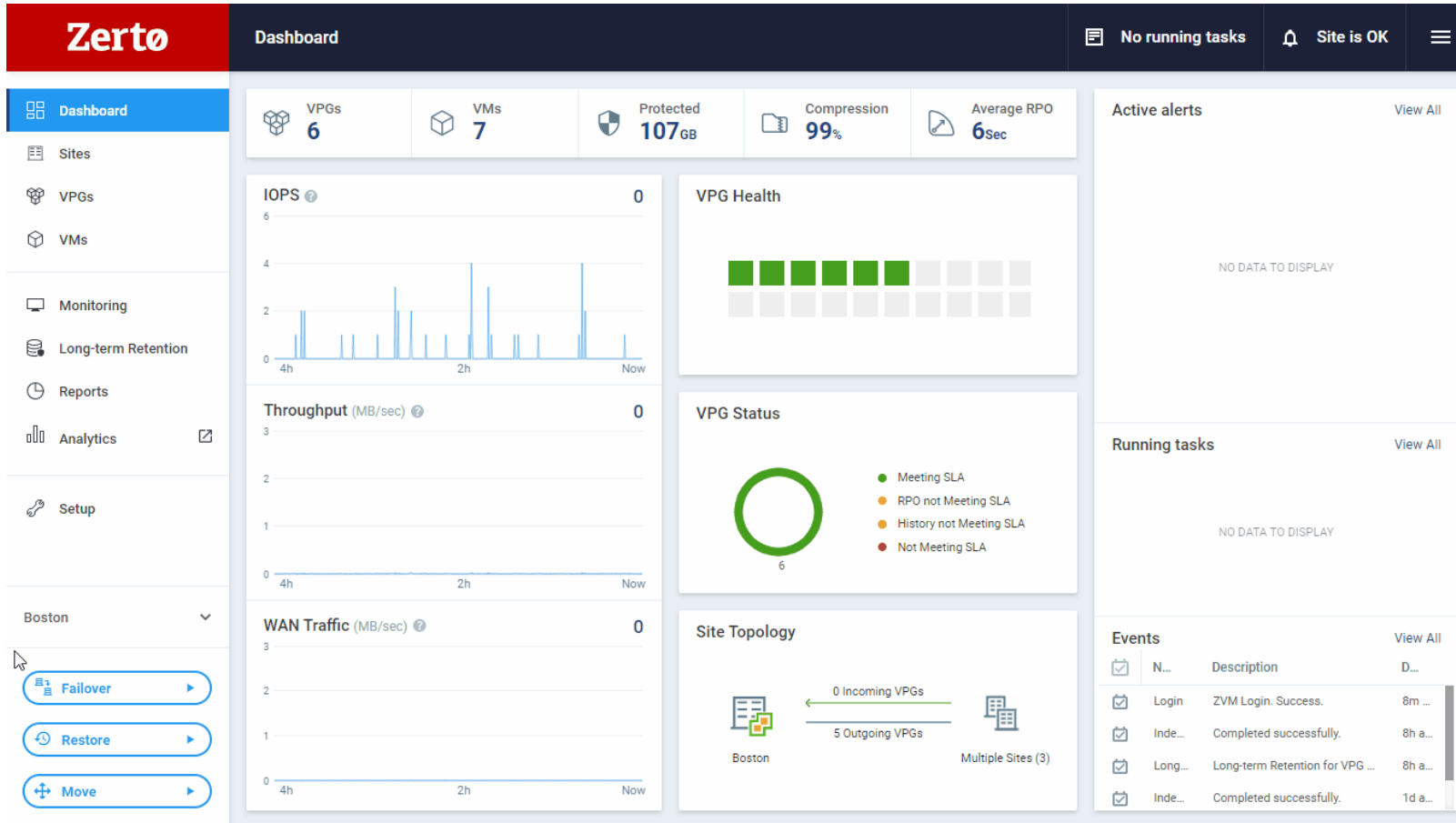


Detect suspicious writes as they stream in and flag for admins to investigate

“[Zerto’s] real-time ransomware detection puts us in a much stronger position to both identify and mitigate ransomware attacks. This gives us confidence that we can proactively meet the risks presented by ransomware.”

– Network admin at manufacturing customer

Simple Live Failover Workflow



1

Select VPGs

2

Select options

3

Start failover

PRINCIPALI CARATTERISTICHE

SEMPLICITÀ

- Solo Software
- Singola webgui
- Architettura scale-out
- Indipendenza da Hardware
- No agenti, snapshot, schedulazioni
- Nessun impatto su produzione
- Implementazione rapida
- **Failover in 3 click**

SICUREZZA

- Appliance linux virtuali pre-hardened e pre-configurati
- Encryption end to end
- MFA – autenticazione multi fattore
- RBAC – accessi basati su ruoli
- **Ransomware: inline REAL-TIME encryption detection & alerting**

CARATTERISTICHE

- RPO più basso del mercato (5-10 secondi)
- RTO di minuti
- **Coerenza applicativa**
- One-to-Many (3 copie)
- Replica ALWAYS-ON
- Journal: recovery point-in-time granulare
- **Test DR non "disruptive"**

Continuous Data Protection

Orchestrazione tra on-prem, Cloud pubblico e MSP

EXPERIENCE ZERTO FIRSTHAND



LIVE TAILORED DEMO



HANDS-ON LABS



ZERTO FREE TRIAL



HEAR FROM YOUR PEERS

See Zerto in action with a Zerto expert. Email for details:

info@zerto.com

Test drive Zerto for free in self-paced, on-demand labs:

zerto.com/labs

Try Zerto for 14 days on your own infrastructure:

zerto.com/free-trial

Read honest reviews of Zerto from real customers:





Grazie

Zerto

a Hewlett Packard
Enterprise company