

Zerto

— 7.0 —



Welcome



Caroline Seymour
VP, Product Marketing



Rob Strechay
SVP, Product



**Gijsbert Janssen
Van Doorn**
Tech Evangelist



John Grant
Infrastructure Analyst III, *EPRI*

Today We Challenge the Status Quo

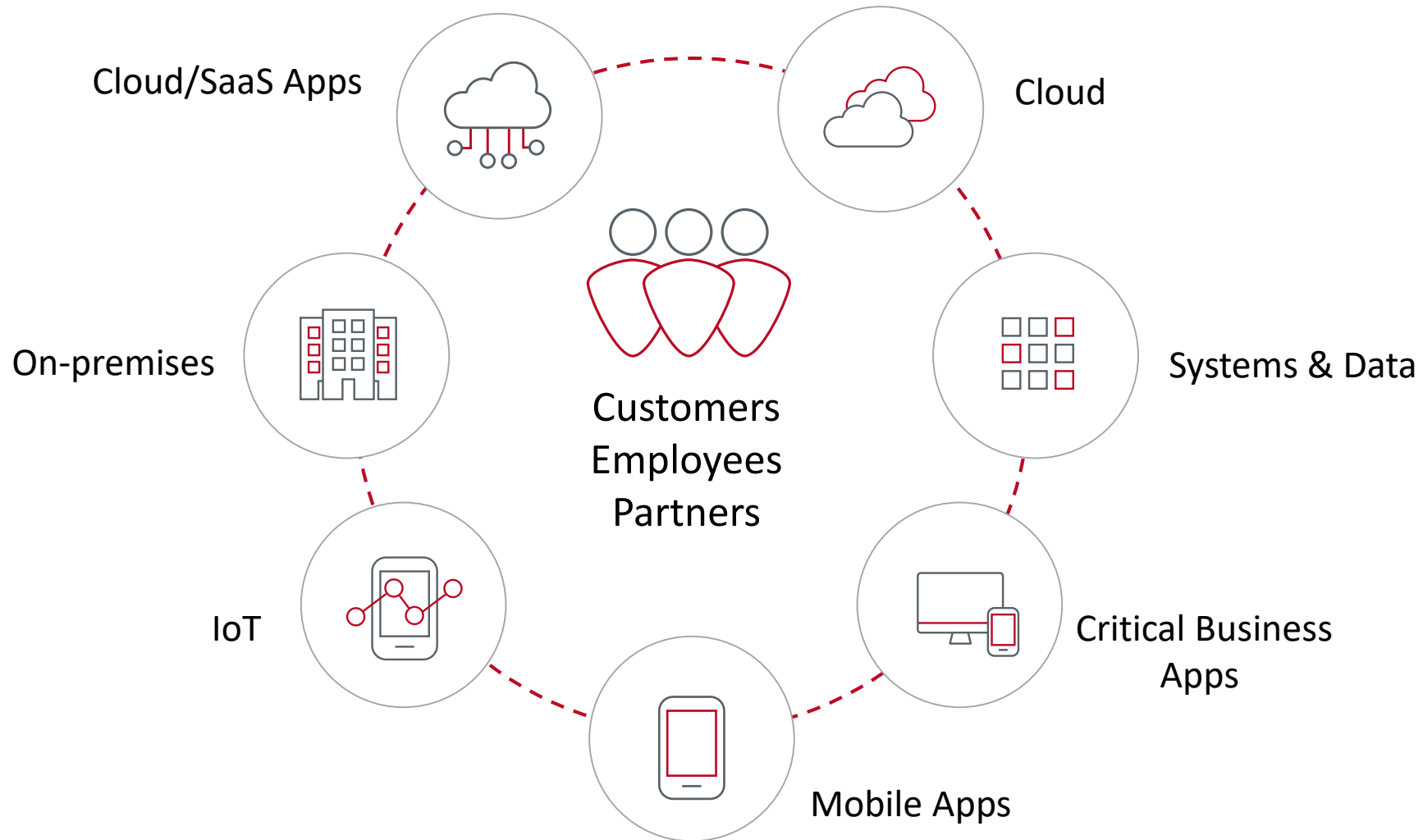
*“The most dangerous phrase in the language is,
‘We’ve always done it this way.’”*

Admiral Grace Murray Hopper

Introducing a New Era for DR & Backup



Solving Today's Digital Business Needs for Continuous IT and Business Operations



Addressing Key Customer Challenges

Complexity

Data Loss 

Costs

Lengthy Backup Windows

SLOW RECOVERY SPEEDS

Downtime 

 PRODUCTION IMPACT

Extensive Resources Multiple Tools

Zerto 7.0 Completes the Vision

Converged



Disaster
Recovery



Backup



Multi-Cloud
Hybrid Cloud



Migration



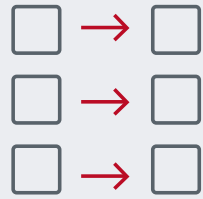
Orchestration



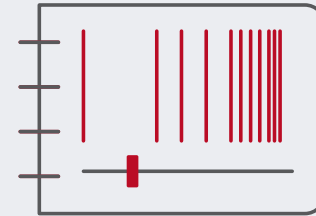
Analytics

IT Resilience Platform™

Bringing Continuous Data Protection to Backup



Continuous
Data Replication



Journal-based
Recovery

Short term and **Long-term** Retention

Hello
Zerto 7

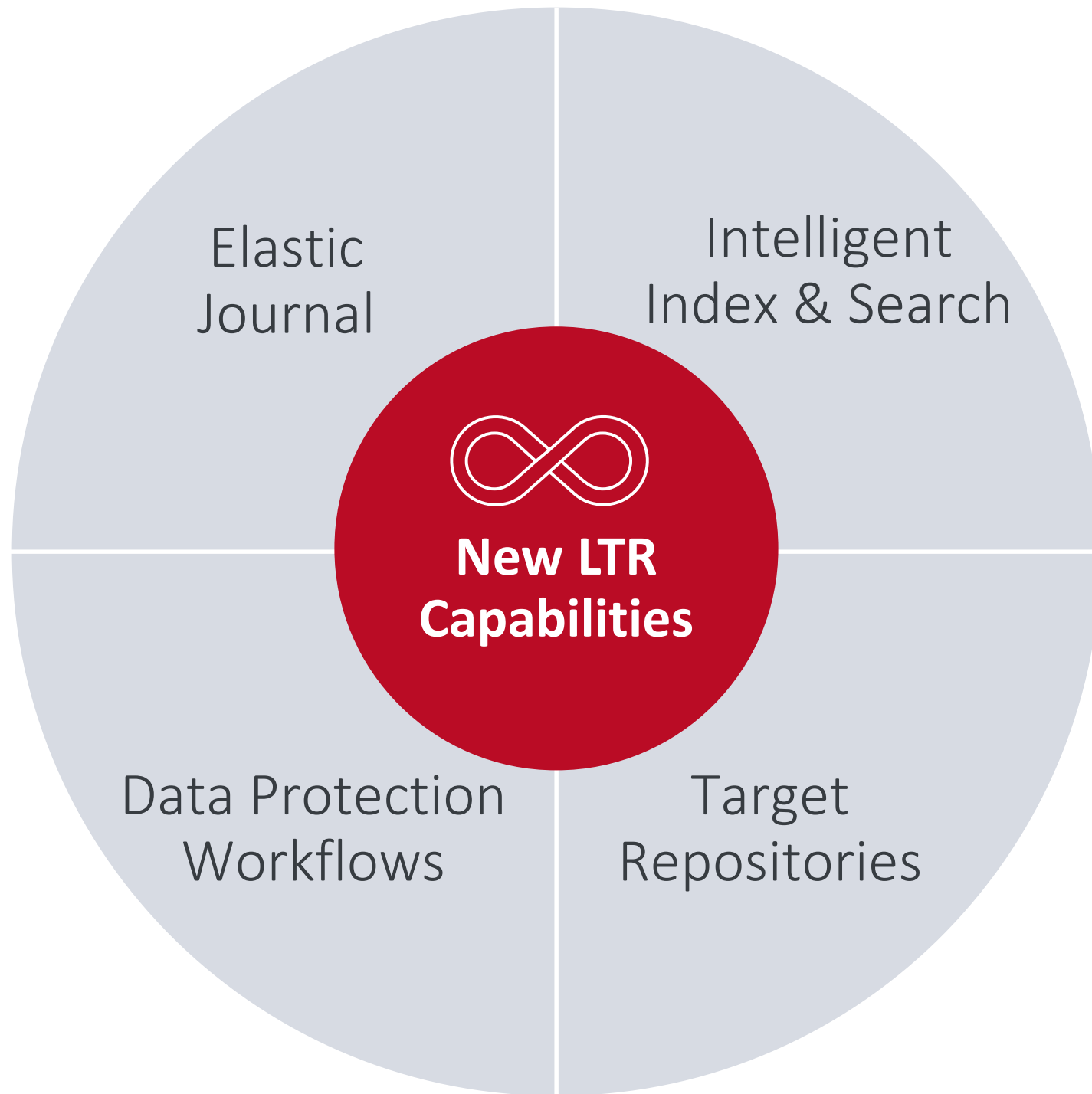


Yanfeng
Global Automotive Interiors

“The ability to manage our DR and backup through a single platform with Zerto 7.0 will be a game-changer for us...We anticipate significant efficiency increases through the ability to replicate once for both DR and backup, saving time and costs.”

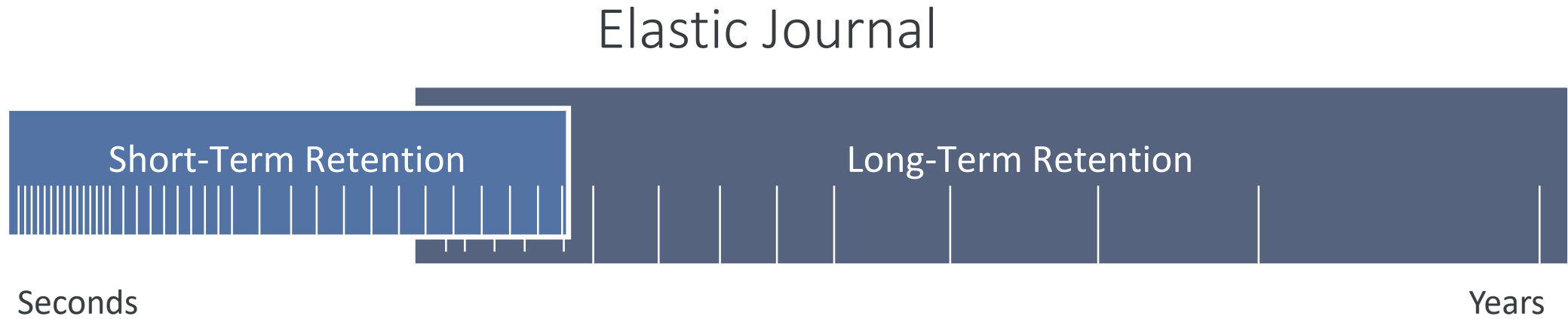
Michael Sallie

SENIOR SYSTEMS ENGINEER





Introducing a New Concept



Combines Short-Term Journal technology with Long-Term Repositories



No Data Loss or Downtime

Elastic Journal



Simply rewind to any point in time



Files



VMs



Apps



Sites



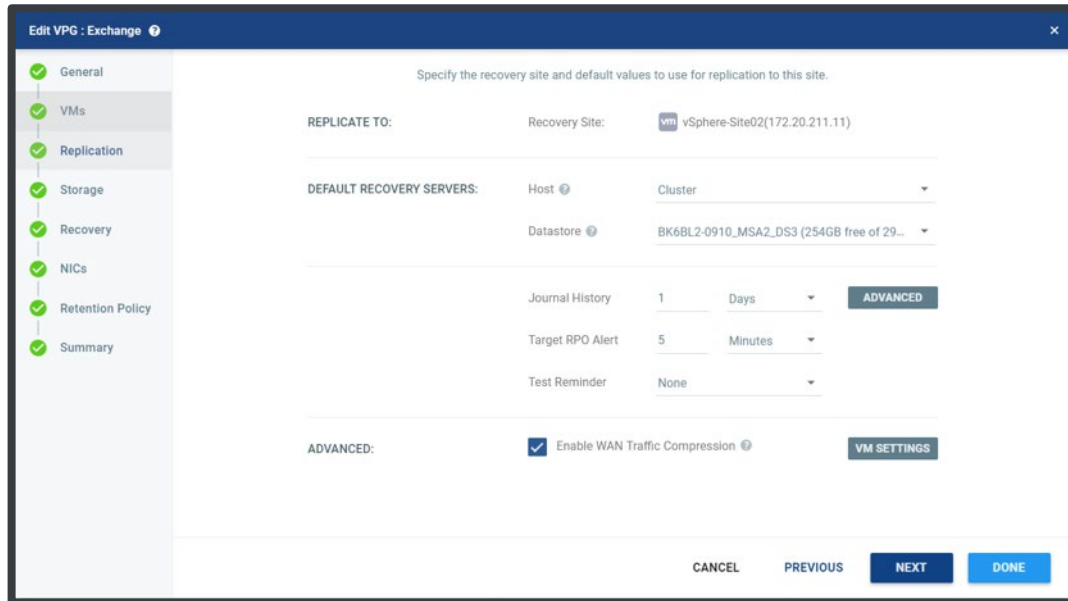
Always Protected



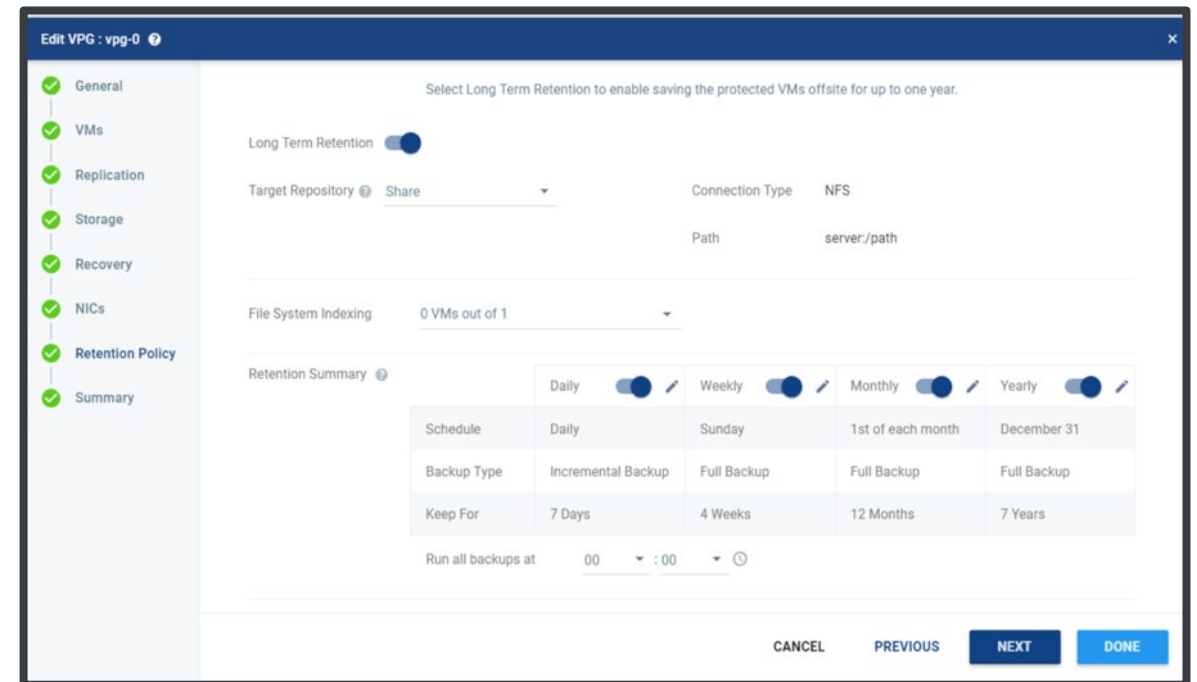
- Non- disruptive recovery – within seconds
- Flexibility and choice from where to recover
- Protected against logical failures, disasters while satisfying compliance needs



Retention Policies



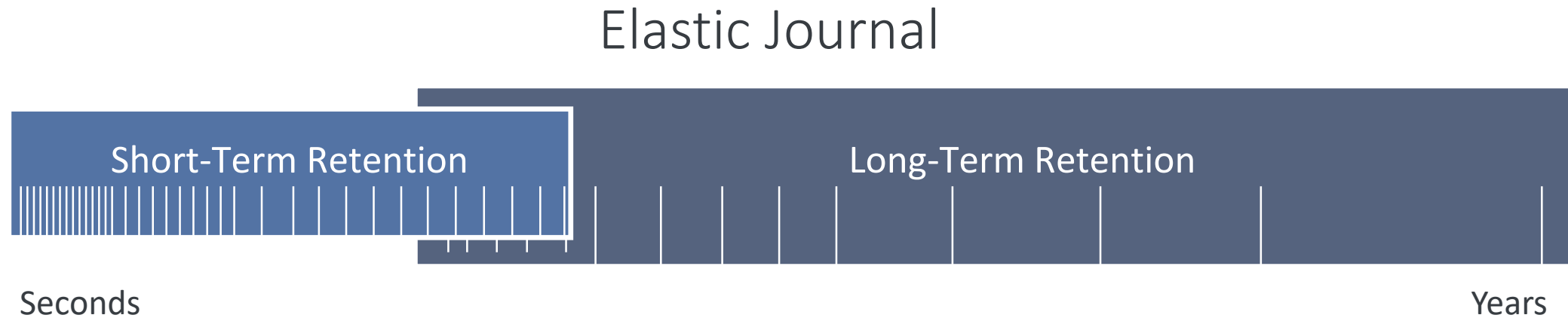
Setting Retention Policies for Short and Long-Term



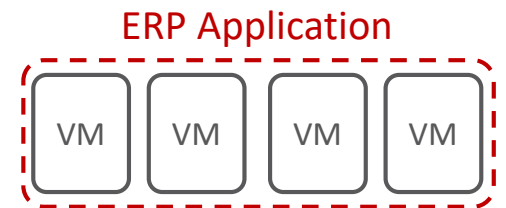
Daily Incrementals with weekly, monthly or yearly fulls



Full Application Stack Consistency

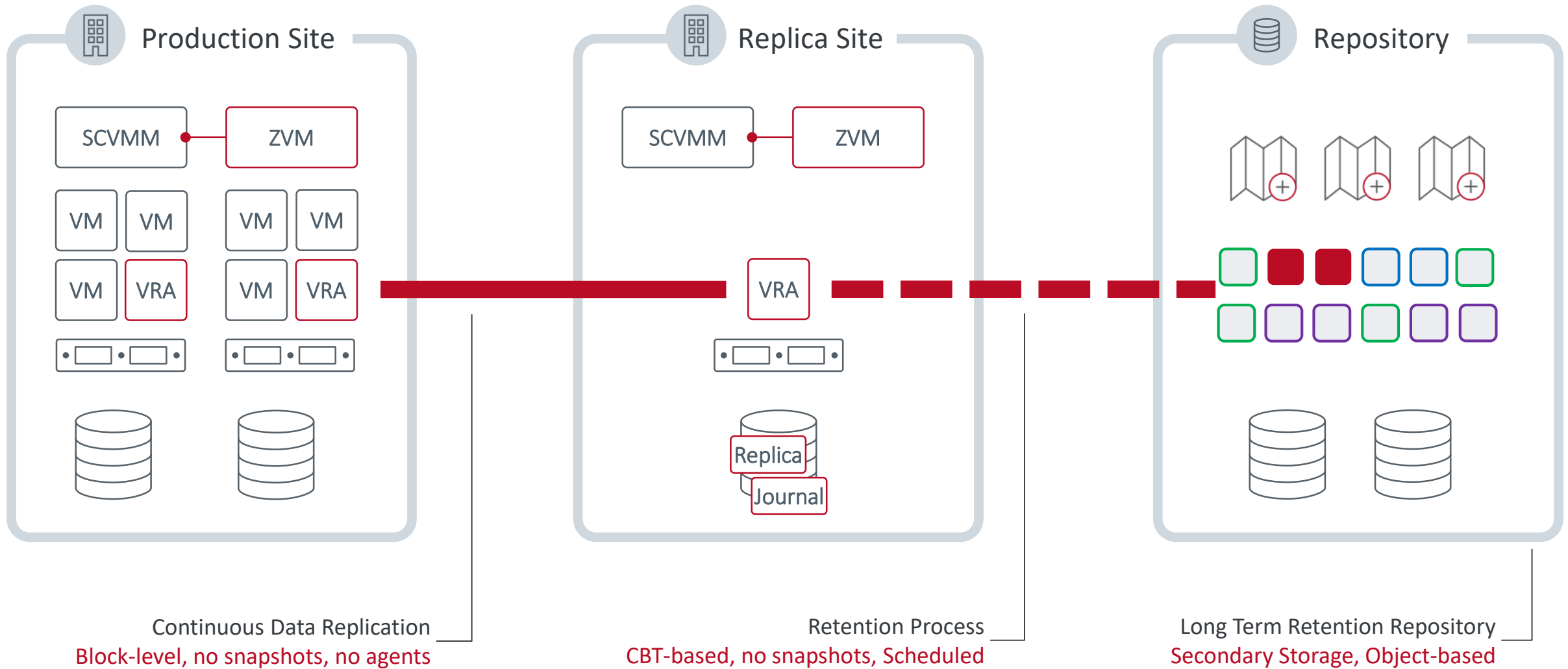


Automatically recover multi-VM applications consistently down to the seconds





Elastic Journal Architecture





Intelligent Index and Search

Search and Restore

VM in VPG
WinFS01

20 items found

Name	Path
Test Files	
Test Files.Ink	
Test-DscConfiguration.cdxml	
Test-DscConfiguration.cdxml	
Test-NetConnection.psm1	
Test-NetConnection.psm1	(Scsi(0:0))-partition#1/Windows/System32/WindowsPowerShell/v1.0/Modules/...
Test-NetConnection.psm1	(Scsi(0:0))-partition#1/Windows/WinSxS/amd64_microsoft-windows-tcpip-wmiv...
Test-NetConnection.psm1	(Scsi(0:0))-partition#1/Windows/WinSxS/wow64_microsoft-windows-tcpip-wmiv...
Test-OUAccess.xml	(Scsi(0:0))-partition#1/Windows/System32/ServerManagerInternal/RDManagem...
Test-OUAccess.xml	(Scsi(0:0))-partition#1/Windows/WinSxS/amd64_microsoft.remotedes..anageme...

Retention Set Date

January 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

February 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	1	2	3

TODAY
YESTERDAY
THIS MONTH
LAST MONTH
LAST 7 DAYS
LAST 30 DAYS
CUSTOM RANGE

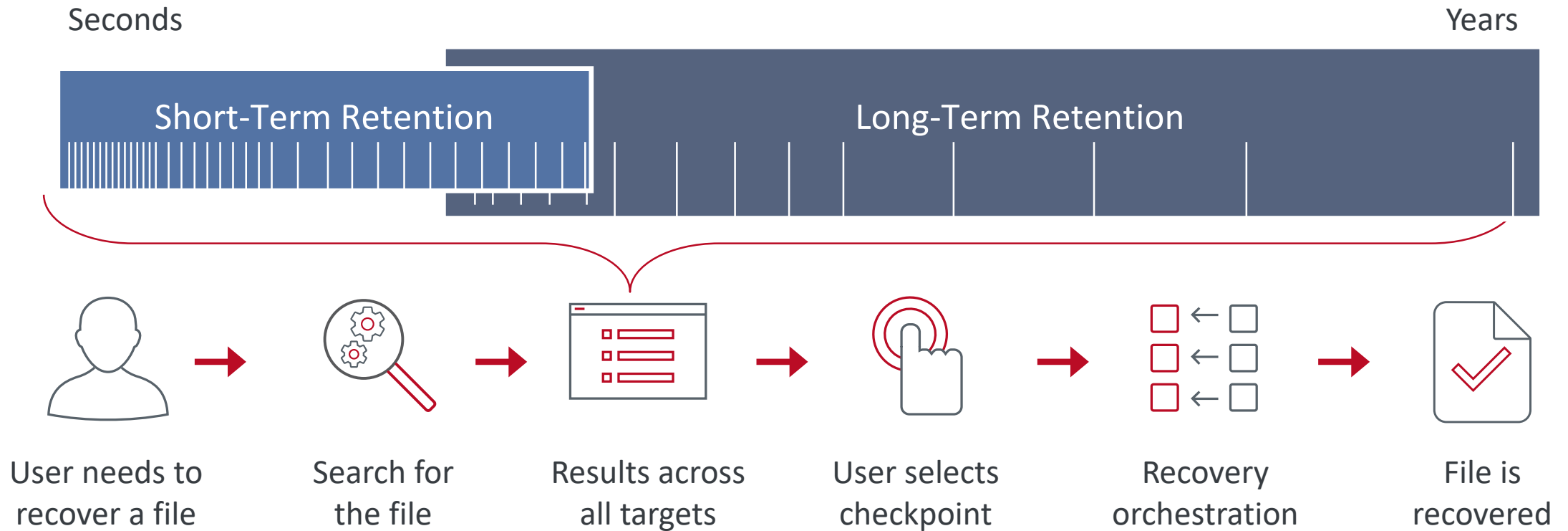
From 17/01/2019 To 24/01/2019

APPLY CANCEL

- Quickly find what to recover
- Search from different points in time
- Site-based
- Unstructured and scalable



Data Protection Workflows



RESTORE VM OR VPG



Target Repositories

The screenshot shows the 'New Repository' dialog box. The 'Storage Type' is set to 'Network Share'. The 'Connection Type' dropdown menu is open, showing 'NFS' and 'SMB' options. A red circle highlights the 'Storage Type' and 'Connection Type' fields.

Optimized for Targets

Leverage production-grade and/or cost-effective secondary storage

The screenshot shows the 'New Repository' dialog box. The 'Storage Type' is set to 'Network Share'. The 'Connection Type' dropdown menu is open, showing 'HPE StoreOnce', 'ExaGrid', 'DELL EMC Data Domain', and 'Other De-Duplicated Storage Appliance' options. A red circle highlights the 'Storage Type' and 'Connection Type' fields.



Bringing it Together

Data Protection Workflows

Intelligent Index & Search

Elastic Journal

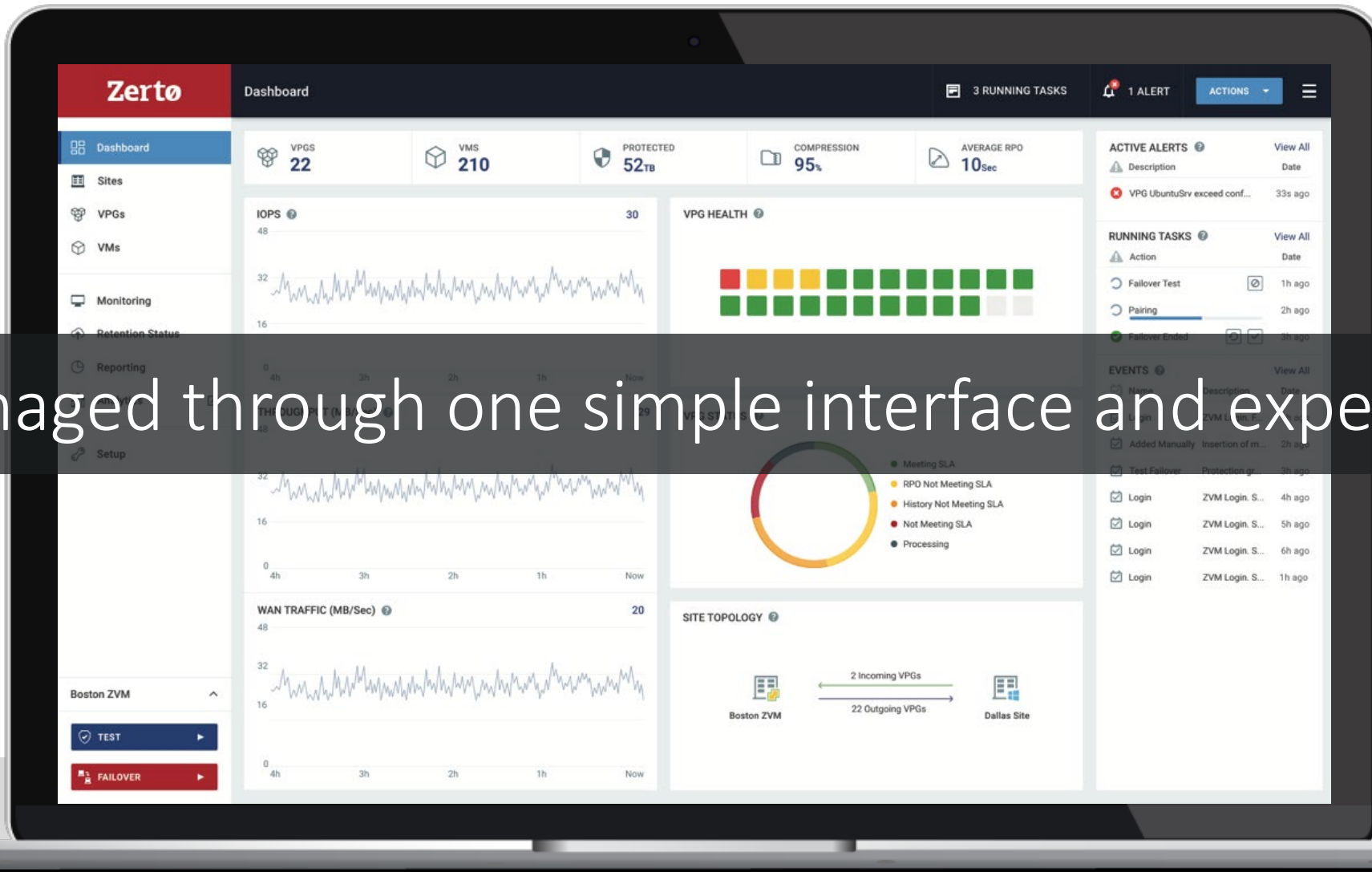
Short-Term Retention

Long-Term Retention



Granular 86% of Use Cases

Compliance



All managed through one simple interface and experience

Zerto

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Demo

The EPRI logo is displayed in a white, stylized, sans-serif font. The letters are bold and blocky, with the 'E' and 'R' having a distinctive shape. The background of the slide is a low-angle photograph of several high-voltage electrical transmission towers against a clear blue sky. The towers are made of a complex lattice of metal beams and are silhouetted against the sky. Power lines stretch across the frame from the towers.

EPRI

John Grant, Infrastructure Analyst III
Zerto Customer

Zerto

EPRI

- Electricity generation, delivery, and use in collaboration with the electricity sector, its stakeholders and others
- Make electric power safe, reliable, affordable, and environmentally responsible.

EPRI



SAP DATA | **Tier 1** APPS

5 YEARS



Disaster Recovery



Ransomware



Migrations



Benefits :

Improved Production performance, RPO

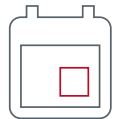
Eliminate need for nightly backup

Cost savings by only having one software vendor for both BC\DR

FUTURE



Object Level



Compliance 1-year Retention

A New Era – Converged DR & Backup in One Platform

Native and Agentless Continuous Data Protection

- No performance impact to production
- Easy and non-disruptive deployment
- Scale-out architecture

Journal-Based Recovery

- Granular Site, Application, VM, File
- Any point in time (from seconds to years) and seconds of granularity

Full Application Stack Protection

- Consistent protection and recovery across any application and it's dependencies
- Any storage device, any cluster, any data store, any host

And there's more...

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Converged
DR & Backup



Cloud
Enhancements



Platform
Updates



New &
Enhanced User
Experience



Advanced
Analytics



Cloud Enhancements

Public Cloud Enhancements

- ✓ RTO enhancements on Azure
- ✓ Support for Encryption at rest

Cloud Service Provider

- ✓ Cloud Control Updates – APIs, Billing
- ✓ vCD – Single VM Support, RTO/Reflection

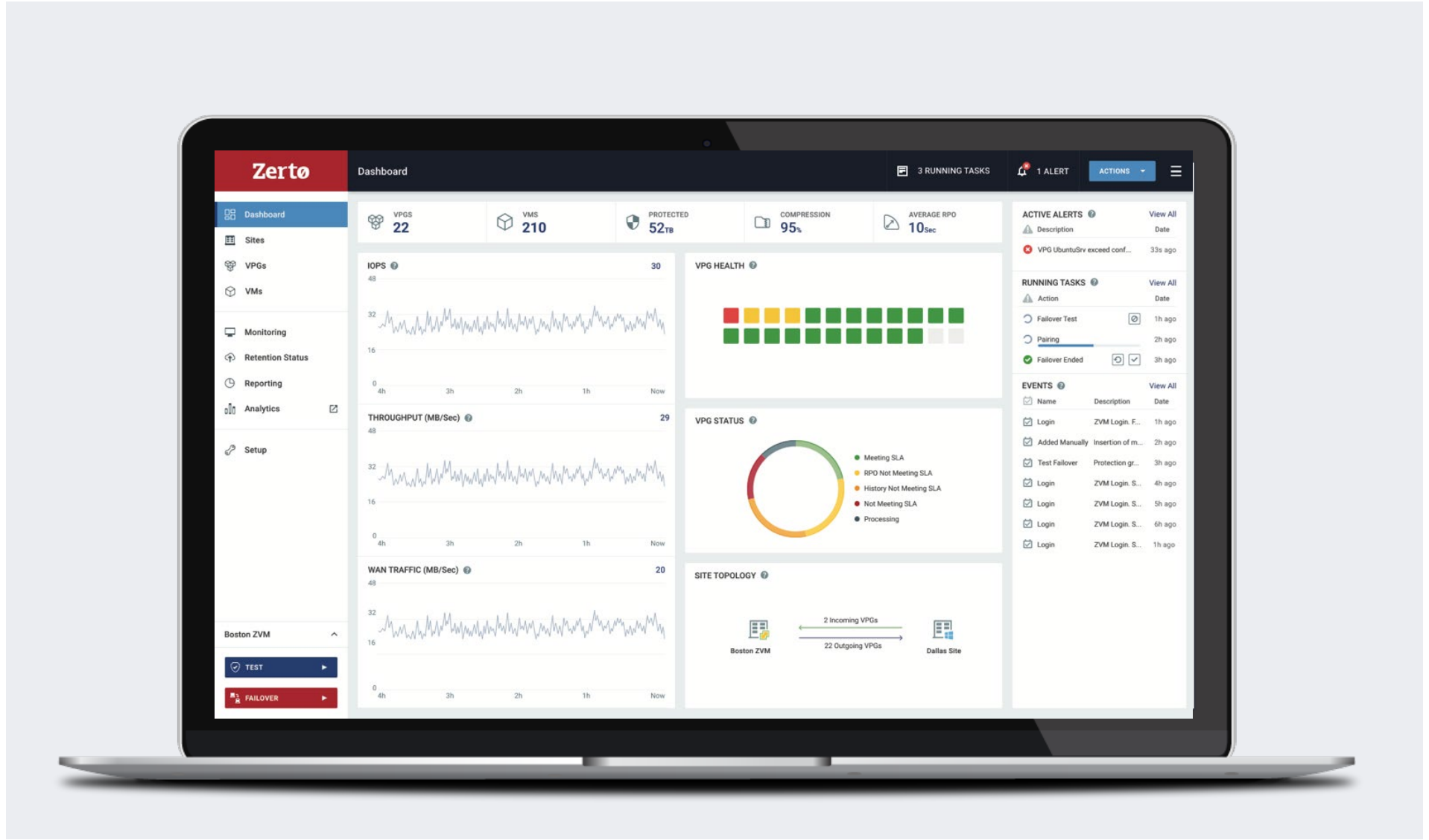


Platform
Updates

- ✓ Evacuate host for Maintenance Mode and Host Down
- ✓ Zerto Virtual Manager Clustering
- ✓ Tolerant Failover



New & Enhanced User Experience





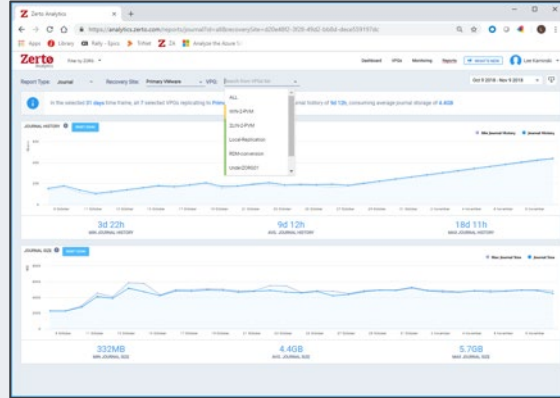
Advanced Analytics

The screenshot displays the Zerto Analytics dashboard with the following components:

- Header:** Zerto Analytics logo, "Sizing" tab, "Filter by Zorg", "What's New" button, and user profile "shaun@company.com".
- Summary Cards:**
 - 7 Sites
 - 967 VMs
 - 195TB Protected
 - 72 VPGs
- Average RPO Chart:** A line graph showing RPO over time from 31 Aug to 6 Sep. The current RPO is 12 sec.
- VPG Status:** 70 Healthy, 1 Warning, 1 Error.
- Active Alerts:** 2 alerts, including "VM Windows 8.1 is Shut Down and Cannot be Synced" (4s Ago) and "Virtual Backup Appliance is disconnected" (15s Ago).
- Running Tasks:** 3 tasks, including "Win Server DC1 - In Progress" (4s Ago) and "Win Server DC2 Resuming Protection Completed" (15s Ago).
- Events:** 1 event, "ZVM Login Success" (4s Ago).
- Sites List:**
 - London Hyper-V (127.0.0.1:8080 | Zorgs: 2 | v7.0 | Type: Hyper-V) - 4, 1, 2
 - VirginiaDC Hyper-V (Unable to Communicate with Site)
 - Seattle AWS (127.0.0.1:8080 | Zorgs: 2 | v7.0 | Type: AWS)
 - London vSphere (127.0.0.1:8080 | Zorgs: 2 | v7.0 | Type: vCenter)
 - Seattle Hyper-V (Zorgs: 2 | v7.0 | Type: Hyper-V)
 - Dallas Hyper-V (127.0.0.1:8080 | Zorgs: 1 | v7.0 | Type: Hyper-V)
 - DallasDC AWS (127.0.0.1:8080 | Zorgs: 2 | v7.0 | Type: AWS)
- Diagram:** A network diagram showing connections between sites, categorized as Incoming, Outgoing, or Self-Replicating.

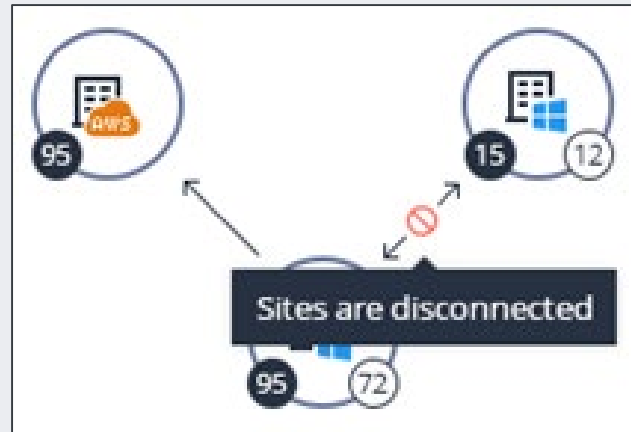


Advanced Analytics

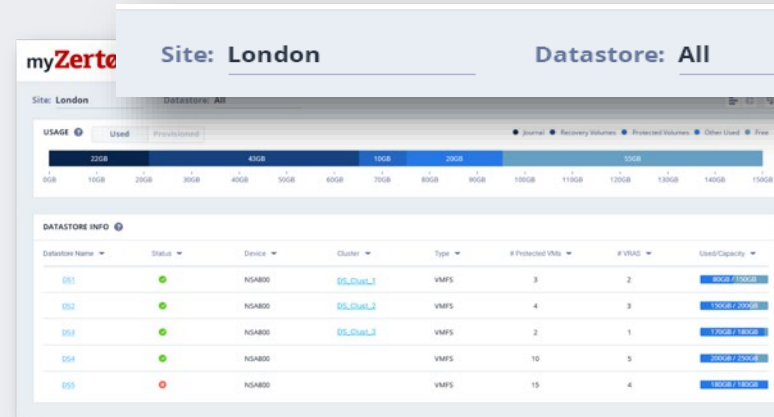


Storage Planning

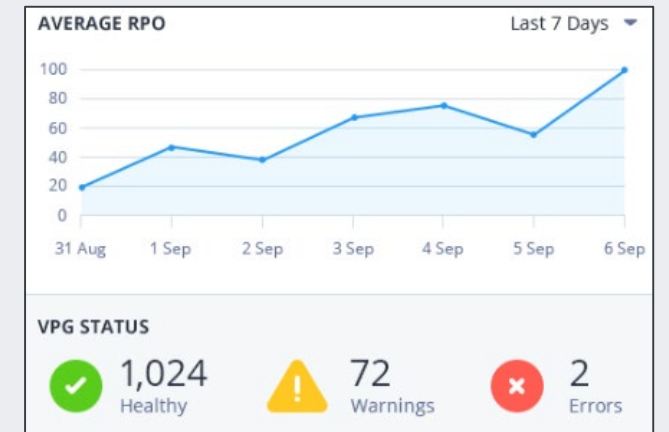
Sitewide Storage Report for analysis, planning, troubleshooting

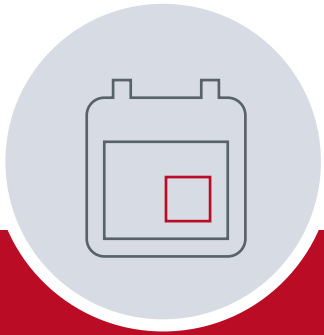


Dashboard Enhancements



...and APIs!





New Resource Planner

Sizing Setting | Source Site: Site Name1 | Selected VMs: 4 VMS Selected | Recovery Platform: Azure | Compression: 50% | History: 24h | Jan 1 2015 - Dec 31 2015

Overall Sizing Requirements

- 3 - 5 ZCAS
- 250Mbps WAN
- 950TB Total Journal Size
- 500GB Total Recovery Disk Size

VM Level Statistics

VM Name	Datacenter	Host	CPU	RAM	Total Size	Average Thoroughput (MBps)	Average IOPS	Required Journal Size
HDZHA001-VP0004	VCS98	HDZHA001	2	2	500	500	2	125
KRAUS001_EXCHANGE	VCS98	KRAUS001	4	4	125	125	4	300
ADVIS-AW-VP001	PDX02-Flexential	DEN11-Flexential	3	3	38	38	3	1200
HDZHA001-VP0004	CLT-Zerto	LOU-Zerto	1	1	445	445	1	50
KRAUS001_EXCHANGE	SEA01-Flexential	ABE01-Flexential	2	2	72	72	2	170
ADVIS-AW-VP001	VCS98	QDNEZ001	2	2	160	160	2	1500


- Plan your compute, networking & storage
- Optimal planning with 'What if' scenario modelling
- Public Cloud, Private Cloud, On-Premises, Hybrid
- Size new datacenters

Changing the Game Again!


Converged




Disaster Recovery




Backup




Multi-Cloud Hybrid Cloud



Migration



Orchestration



Analytics

Zerto IT Resilience Platform™

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Q & A



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IT RESILIENCE

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Better Together:
DR + Backup
CONVERGED

