

Solution Brief

IT Resilience for NetApp HCI and NetApp SolidFire Infrastructures

Key Benefits

- Eliminate downtime with ZVR's continuous replication of VM block-level changes and Element's QoS settings
- Automate every aspect of storage provisioning, management, and reporting with Element software's REST-based APIs
- Zerto enables non-disruptive movement of application and data workloads to, from and between clouds

The Zerto IT Resilience Platform™ seamlessly works with NetApp® Element® software, enabling continuous protection of all applications—with industry-leading recovery point objectives (RPOs) and recovery time objectives (RTOs)—on your organization's cloud infrastructure.

The Zerto IT Resilience Platform converges backup, disaster recovery, and cloud mobility into a single, simple, scalable platform to reduce the costs and complexities of multiple solutions. The platform is based on a foundation of Continuous Data Protection, which is at the core of enabling resilience. Orchestration and automation are built in; you can't modernize and innovate if your system isn't automated and simple. Analytics and control give you complete visibility across multisite, multi-cloud environments so that you can meet the SLAs of your business.

With NetApp Element software that operates on NetApp HCI and NetApp SolidFire® systems, you get the distinct advantage of scaling workloads without sacrificing performance. Element software gives you enterprise-grade reliability, all-flash performance, and secure multitenancy in an architecture that delivers superior agility through scalability, predictability, and automation.

Through its fine-grained performance control, Element software delivers predictable storage quality of service (QoS) for every workload. You get consistent application performance, regardless of the number of applications or the size of the cluster. For each storage volume within a SolidFire system, you can allocate a precise amount of capacity and performance, both of which can be changed dynamically without migrating data or interrupting I/O.

Element enables flexibility to scale your data when you need it most, without compromising protection. Designed for tomorrow's applications and data demands, native data protection delivers ironclad data assurance through a resilient, self-healing architecture that reduces your operational overhead and risk. Local NetApp Snapshot™ copies enable space-efficient, point-in-time copies of your data for rapid restore.

Zerto provides enterprise-class disaster recovery and business continuity software for virtualized infrastructure and cloud environments. Zerto can seamlessly migrate workloads from legacy storage solutions to modern infrastructure, including NetApp HCI and SolidFire. Zerto complements NetApp HCI, SolidFire all-flash arrays, and converged infrastructures by providing a simple, agile, and scalable way to deliver resilience and complete visibility for critical business workloads across private cloud environments. After the workloads have been migrated, Zerto can continuously replicate those workloads to a secondary site, including public clouds such as Amazon Web Services (AWS) and Microsoft Azure.

PROBLEM	SOLUTION
Lack of visibility and reporting	Zerto Analytics gives you insight into the protection status of your applications and offers excellent reporting on availability and resource consumption across all your platforms. NetApp Element software provides a robust reporting capability, including capacity, efficiency, and performance information for the system.
Unpredictable performance	For each storage volume in a system that is enabled by Element software, you can allocate a precise amount of capacity and performance, resulting in consistent performance SLAs for all applications. By copying write data between the hypervisor and storage, Zerto has no impact on the production VMs that are being protected.
Downtime that translates to lack of productivity	Zerto's continuous replication of VM block-level changes with no scheduling provides industry-leading RPOs and RTOs. With Element QoS settings, you configure each volume with minimum, maximum, and burst IOPS values, confirming uptime across all applications that run on a consolidated system.
Manual processes that result in inefficient operations	Zerto completely automates DR processes, so the data is at the DR site, and the application is available to end users, maximizing employee productivity. NetApp Element software includes a REST-based API to automate every aspect of storage provisioning, management, and reporting.
The need for cloud mobility	Zerto can simultaneously replicate VMs locally to multiple remote sites and to public or managed clouds. Migrating to or from NetApp HCI or NetApp SolidFire infrastructure is simple because Zerto provides heterogeneous storage support.

Table 1) Element software with Zerto Virtual Replication help you meet key IT challenges.

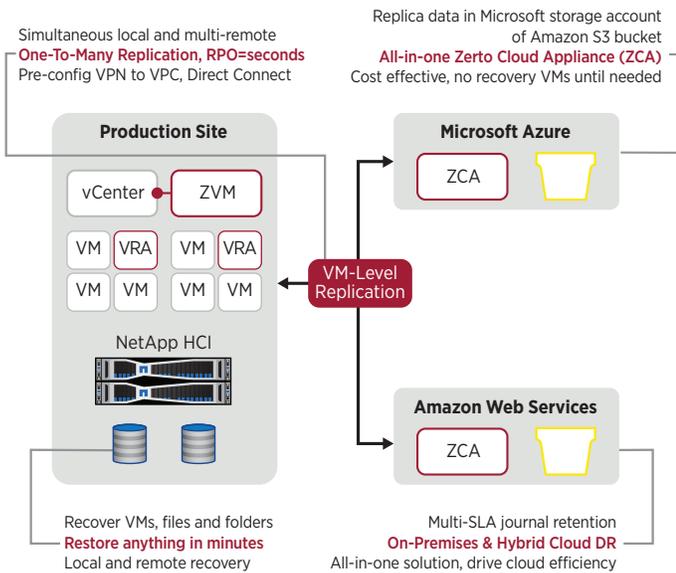


Figure 1) IT Resilience with NetApp and Zerto

About Zerto

Zerto helps customers accelerate IT transformation by eliminating the risk and complexity of modernization and cloud adoption. By replacing multiple legacy solutions with a single IT Resilience Platform, Zerto is changing the way disaster recovery, backup and cloud mobility are managed. With enterprise scale, Zerto's software platform delivers continuous availability for an always-on customer experience while simplifying workload mobility to protect, recover and move applications freely across hybrid and multi-clouds. Zerto is trusted by over 6,000 customers globally and is powering resiliency offerings for Microsoft Azure, IBM Cloud, AWS, Sungard AS and more than 350 cloud services providers. Learn more at Zerto.com.

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com. #DataDriven