

Travel through Time to Stop Ransomware with Zerto and Nebulon

Keep your IT infrastructure going physically with Nebulon and running virtually with Zerto

Ransomware attacks are a growing threat. From 2020 to 2021, the number of attacks increased by 13%. And by 2031, the financial damage will be staggering, with over \$265 billion in predicted global costs. No organization or industry is immune to these cyberthreats. When an attack happens, quick recovery of core infrastructure and services is critical to restoring business operations with minimal disruption.

Protecting both physical and virtual IT infrastructures is crucial to ensure the overall security, functionality, and longevity of an organization's operations. Safeguarding physical infrastructure, such as servers and network components, prevents unauthorized access and tampering, reducing the risk of data breaches and downtime. Similarly, securing virtual infrastructure, including software and data, safeguards against cyberattacks, data loss, and system vulnerabilities. A comprehensive approach to IT infrastructure protection helps maintain business continuity, protects sensitive information, and upholds the trust of customers and stakeholders.

But to recover your entire data center reliably, you need the right tools for the job.

Zerto, a Hewlett Packard Enterprise company and industry leader in ransomware resilience, is teaming up with Nebulon, a combined server and storage solution, to provide a comprehensive protection offering that safeguards both your physical and virtual infrastructures.

Zerto is a simple, software-only solution that uses continuous data protection (CDP) at scale to solve for ransomware resilience, disaster recovery, and multi-cloud mobility. It empowers customers to run an always-on business by simplifying the protection, recovery, and mobility of on-premises and cloud applications. Zerto eliminates the risk and complexity of modernization and cloud adoption across private, public, and hybrid deployments. Zerto leverages its CDP technology to provide an always-on replicated virtual machine (VM) and/or a cloud instance such as Amazon Elastic Cloud Compute (EC2) and automate and orchestrate its recovery in the event of a disaster.

However, protecting virtual infrastructure is only one half of the recovery puzzle. To protect physical data centers, Zerto has partnered with Nebulon, the first and only combined server and storage solution that enables near-instant recovery of the entire physical infrastructure. Its smartInfrastructure software provides critical enterprise data services, like encryption and snapshots, enabled via a server-embedded services processing unit (SPU). Because the SPU sits in a separate security and fault domain from the server, ransomware on those servers cannot encrypt the physical drives. This ensures reliable recovery of your operating system and application data.

In addition, Nebulon's TimeJump feature enables recovery of entire physical infrastructure clusters in under four minutes. And for virtual environments, Zerto captures ransomware encryptions instantly and identifies clean recovery points, reducing VM restore times from hours or days to just minutes.

Together, Zerto and Nebulon's smartInfrastructure provide organizations a one-two punch to quickly detect, contain, and recover from even the most devastating ransomware attacks. If your physical infrastructure goes down, Nebulon will bring up the servers hosting your VMs. Once all basic virtualized services are back online, recovering VMs with Zerto happens in just a matter of minutes rather than days or weeks saves you from the costly effects of data loss and downtime.

From bringing back online the physical hosts to recovering every VM within minutes, Nebulon and Zerto provide your data center with the ability to literally jump through time to recover.

In summary, Zerto and Nebulon bring the following key benefits:

Zerto:

- Near-synchronous data replication with instant encryption alerts
- Isolated, air-gapped Cyber Resilience Vault stores immutable data copies – a perfect candidate for adding Nebulon smartInfrastructure!
- Rapid recovery of multi-VM applications in seconds to minutes
- No added cost for real-time encryption detection

Nebulon:

- TimeJump leverages Nebulon snapshots to restore infrastructure clusters to a pre-attack state in minutes
- Boot volumes are restored along with data volumes for complete recovery
- Infrastructure services are isolated in the Nebulon Secure Enclave, away from server OS/hypervisor
- Limits what ransomware can impact and encrypt
- Nebulon ImmutableBoot maintains known good server configurations, limiting infection vectors
- Ransomware removed with every server reboot
- Nebulon TripLine uses machine learning to identify ransomware encryption patterns in real-time
- Detects attacks across OS, apps, and data to limit spread

Ready to stay up and running? Learn more about Nebulon with this guided tour and Zerto with the hands-on labs!

On-Demand Labs

Nebulon Tour

About Zerto

Zerto, a Hewlett Packard Enterprise company, empowers customers to run an always-on business by simplifying the protection, recovery, and mobility of on-premises and cloud applications. Zerto eliminates the risk and complexity of modernization and cloud adoption across private, public, and hybrid deployments. The simple, software-only solution uses continuous data protection at scale to solve for ransomware resilience, disaster recovery, and multi-cloud mobility. Zerto is trusted by over 9,500 customers globally and is powering offerings for Amazon, Google, IBM, Microsoft, and Oracle and more than 350 managed service providers. www.zerto.com

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