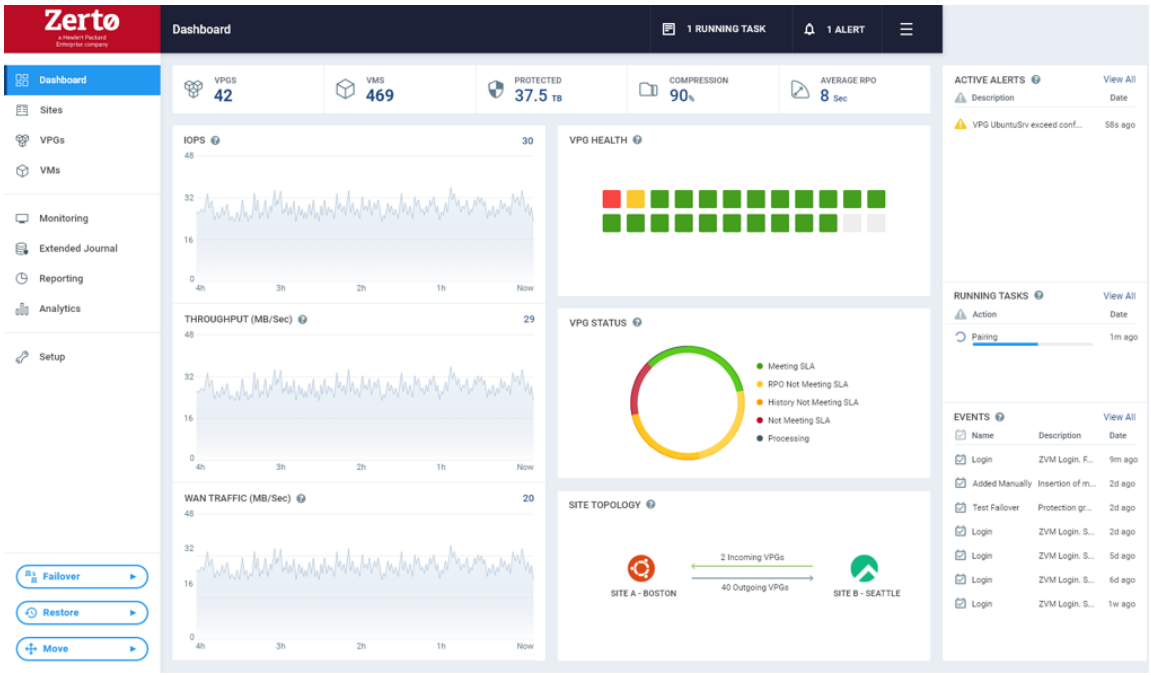
HPE Zerto Software



What's new

- Quickly recover entire sites, on-premises or in the cloud, in minutes without disrupting business. Organizations trust HPE Zerto for reliable protection against disruptions across all industries.
- HPE Zerto Software for AWS & Azure now simplifies enterprise-scale management, supporting thousands of VMs for protection in, to, or from public cloud infrastructure.
- HPE Zerto In-Cloud Software for AWS provides disaster recovery for AWS across regions and availability zones. Protection and recovery can easily scale to a thousand+ AWS EC2 instances.
- HPE Zerto Software enhances disaster recovery with real-time encryption detection, identifying ransomware attacks in seconds, and offers immutable journal copies

Overview

Are you looking to reduce downtime, improve disaster and ransomware recovery, deliver availability of data, or migrate workloads with ease? HPE Zerto Software provides disaster recovery, cyber resilience and workload mobility software for virtualized and cloud environments. HPE Zerto Software is designed to deliver continuous data protection and replication, ensuring that businesses can quickly recover with downtime to minutes and data loss to seconds.

HPE Zerto is built to support a wide range of IT environments, including VMware®, Hyper-V®, and public clouds such as AWS® and Microsoft Azure®. The platform offers a unified, scalable solution that simplifies the complexities of data protection, allowing organizations to protect and recover applications and data across different infrastructures seamlessly.

stored securely away from attackers.

– HPE Zerto enables seamless workload migration to new infrastructure, public cloud, or service providers, simplifying datacenter consolidation and facilitating movement to, from, and between clouds.

Features

Continuous Data Protection

HPE Zerto near-synchronous replication keeps data protected in real-time, providing recovery points measured in seconds, nearly eliminating data loss. The HPE Zerto recovery journal retains thousands of recovery points for up to 30 days providing granular, flexible recovery.

HPE Zerto simplifies application recovery and site recovery using virtual protection groups to synchronize replication and recovery across multiple VMs, creating consistent recovery checkpoints across entire sets of VMs comprising complex applications or entire sites.

HPE Zerto automates and orchestrates recovery to nearly eliminate downtime and data loss. Whether protecting dozens or thousands of VMs, HPE Zerto delivers recovery times measured in minutes and recovery points measured in seconds.

HPE Zerto is integrated with major cloud providers which enables businesses to leverage cloud resources for disaster recovery, backup, and migration, providing cost-effective and scalable solutions.

HPE Zerto provides comprehensive analytics and reporting tools, giving organizations insights into their data protection status, recovery performance, and compliance with regulatory requirements.

Multi Cloud Mobility

Protect and migrate workloads across multiple platforms both on-premises and cloud with seamless automated conversions of VMs across hypervisors and infrastructure as a service (IaaS) platforms.

Remove barriers and headaches in migration projects with near-zero downtime. Migrate applications and data in real-time without impact to production and relocate workloads within hybrid-cloud and multi-cloud architectures with confidence from non-disruptive testing.

Avoid vendor lock-in with full workload mobility to, from, or within on-premises or cloud platforms to simplify complex IT architectures

VM conversions across platforms are performed automatically between all supported platforms for seamless migration and protection. Protect, recover, and migrate large groups of VMs simply and quickly.

Ransomware Resilience

Detect ransomware attacks within seconds with HPE Zerto real-time encryption detection that alerts of anomalous encryption activity and tags recovery points to aid recovery to a point seconds before encryption began.

Create immutable copies of the journal that cannot be altered by ransomware attackers to prevent recovery.

Utilize network isolation for recovery to validate and remediate recovered data after a ransomware attack before recovering back into production.

Organizations can conduct disaster recovery testing without impacting production environments, ensuring that recovery plans are effective and up to date.

Enterprise Management

HPE Zerto provides highly automated workflows to protect, recover, and test protection for hundreds or thousands of VMs. Virtual protection groups are used to orchestrate large numbers of VMs so that processes like testing and recovery can be done quickly and confidently with only a few clicks.

HPE Zerto orchestration features allow for logical grouping of VMs into protection groups to be recovered individually or as a whole group, speeding the recovery process and ensuring data integrity across all VMs in a protection group for each recovery checkpoint.

HPE Zerto analytics provides cloud-based data analysis in a global view across all HPE Zerto sites. The data and analytics provide insights into protection health, recovery status, all in a single view.

HPE Zerto ensures that entire applications, not just individual VMs, are protected consistently, allowing for seamless recovery of complex, multi-VM applications. Scale with the needs of the business, supporting small to enterprise-level environments across on-premises and cloud.

HPE Zerto is designed to scale with the needs of the business, supporting small to enterprise-level environments. Its flexibility allows for protection of workloads across on-premises, hybrid, and multi-cloud environments.

Technical specifications	HPE Zerto Software
Automation	Automation is the ability of software to handle tasks that would otherwise have to be performed manually by a user. Tasks manually performed typically take longer and pose more risk of human error causing disruption extending the time or the project. Automation, whether built into a software solution or added on through scripting or third-party tools, can speed up processes, eliminate points of human error during the process, and simplify management of workloads. Automating processes like disaster recovery, migrations, or system updates can significantly reduce downtime and allow more productivity during maintenance windows.
AWS	Amazon Web Services (AWS) is a comprehensive cloud computing platform offered by Amazon. It provides a wide array of services, including computing power, storage options, and networking capabilities, enabling businesses and individuals to scale and innovate efficiently. AWS offers robust security, global infrastructure, and flexible pricing models, making it a preferred choice for organizations seeking reliable and scalable cloud solutions.
Azure	Microsoft Azure is a comprehensive cloud computing platform and service offered by Microsoft. It provides a wide range of cloud services, including computing, analytics, storage, and networking. Users can choose and configure these services to meet their specific needs, allowing for the development, deployment, and management of applications through Microsoft-managed data centers. Azure supports various programming languages, tools, and frameworks, making it a versatile solution for businesses seeking to leverage cloud technology for scalability, flexibility, and innovation.
Business continuity	A business continuity plan is a framework that details what will happen in the event of a disruption to business operations. It is part of an emergency management policy that connects the emergency response phase to the recovery phase. Fundamentally, a good business continuity plan helps an organization face the unexpected. In most scenarios, solutions involve maintaining system redundancy, failover, and workplace recovery, and IT infrastructure is central to them all. From offsite backup to cloud partner platforms to remote access, every aspect must be carefully evaluated and strengthened.
Cloud	Cloud computing is an approach for computing services over a network. Provides access to storage, servers, databases, networking, software, analytics, applications, and other resources on demand. These resources are typically on a pay-per-use basis enabling organizations to implement flexible and scalable IT solutions without the need to directly manage the underlying infrastructure. This model facilitates efficient resource utilization, allowing businesses to dynamically scale their IT capabilities in response to varying demands while optimizing costs.
Continuous data protection	Continuous data protection utilizes journal-based technology to keep a log of all the changes occurring in a specified time frame, offering any point-in-time recovery in increments of seconds and retained over a specified period of time from days to weeks. Unlike legacy systems, which accumulate data periodically throughout the day and then attempt to complete a backup during a time window, CDP constantly backs up your data. For example, snapshot-based recovery puts your business at risk of higher data loss due to infrequent restore points that are captured, while CDP minimizes this with thousands of restore points throughout the journal history.

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Cyber resilience	Cyber resilience is an organization's capacity for adaptability to cyber threats, without interrupting business integrity, purpose, and continuity. It represents an enterprise's level of preparedness to anticipate, detect, and recover from cyber attacks. Cyber resiliency is essential to the protection of enterprise organizations' IT systems, critical infrastructure, data, and applications. It matters because it helps organizations recognize that hackers have the upper hand—this approach forces organizations to reconcile with "unknown unknowns" and be even more innovative, comprehensive, and urgent in their approach. With proper cyber resiliency, entities are able to continuously deliver their intended outcomes despite any adverse cyber events.
Data mobility	Workload mobility can refer to both data protection and migration projects that take workloads like VMs across different sites, different hypervisors, and different clouds. Organizations either by design or by mergers and acquisitions can have complex IT architectures spanning multiple platforms. Workload mobility means a seamless transition of a workload from one platform to another within minutes to avoid prolonged disruption. A data protection plan may recover workloads from an on-premises hypervisor to a public cloud infrastructure as a service platform, or a migration plan may move workloads from one cloud platform to a dissimilar cloud. Use cases involve moving workloads to, from, or even within different on-premises or cloud platforms with minimal effort and minimal downtime.
Data protection	Data protection is a combination of technologies like high availability clustering, disaster recovery, and backup technologies that safeguard against data loss and disruption. Natural disasters, human errors, and malicious actors all pose a threat to data and the availability of IT services. A data protection plan for an organization looks to minimize downtime and data loss and comply with government regulation for data protection. High availability solutions often protect against hardware failures, disaster recovery solutions protect against any disruption even on the multi-site level, and backup solutions provide data recovery to comply with regulations for long-term data retention can span years.
Disaster recovery	In IT, disaster recovery (DR) refers to the strategies, processes, products, and solutions you put in place to recover and protect a business IT infrastructure in the event of a disaster. This includes natural disasters, cyber-attacks, hardware failures, and other catastrophic events. Disaster recovery is critical because it minimizes downtime in the case of disaster and protects data integrity. It helps businesses quickly resume operations and reduce the impact of disruptions. All businesses should have a disaster recovery plan to ensure business continuity.
Failback	Failback refers to the process of returning your system from its secondary location back to its primary location. While failback is sometimes part of scheduled maintenance, it is a crucial part of disaster recovery. Following a disaster, failback often occurs after failover.
Failover	Failover is the action of recovering IT operations to a secondary system when your main system fails. The failure can be due to many reasons, but the main ones are power and network outages, natural disasters, and ransomware. Failover of IT systems, also known as disaster recovery failover, is a critical piece of business continuity.
Hypervisor	A hypervisor, also known as a virtual machine manager (VMM), is software that allows multiple virtual machines (VMs) to share the resources from a single server. This software layer allows multiple virtual machines (VMs) to run on the same host hardware, maximizing the effective use of computing resources. The resources of the host—such as CPU, GPU, memory, storage space, and network bandwidth—are allocated dynamically to the various VMs running on it. Without hypervisors, virtualization simply would not be possible.

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Orchestration	Orchestration is the ability to manage multiple workloads together as a group. Examples include recovering or migration large numbers of workloads or multiple IT sites in a unified way. Orchestration is often associated with automation across large groups of workloads where rules and policies can be set or changed for the group rather than individually. A large complex application, for example, may span across numerous workloads which all need to be protected or migrated as a group to ensure data integrity and maintain dependencies between workloads.
Ransomware resilience	Ransomware resilience is an organization's ability to react quickly to a ransomware attack and recover data confidently to limit the disruption and avoid paying a ransom. Ransomware attackers rely on slow recovery times or preventing recovery altogether to demand huge ransoms for data recovery. Ransomware resilience is essential in mitigating disruption that has financial and brand loyalty impacts to an organization. A ransomware resilience plan should include early detection when an attack begins, immutable data copies for recovery, and the ability to recover data into an isolated network environment where attackers have no access.
Recovery point objective (RPO)	RPO measures data loss in a disaster recovery scenario. It refers to most recent point in time in which a known, good copy of data is available to recover a system. The further back in time a recovery point exists, the more data is lost. The RPO that can be achieved is often determined by what data protection solution is used such as: backups, storage replication, or continuous data replication.
Recovery time objective (RTO)	RTO represents the amount of downtime that can be expected before operations, including data and application services, are back online following a disruption. RTO may be influenced by many factors, including the level of manual vs. automated recovery processes such as boot ordering of VMs, redirecting network traffic, recovering application stacks consistently and others.
Replication support	Replication is process of copying data from one data location to another, often used to facilitate data protection or migration projects. Replication can detect and duplicate data periodically or continuously in order to create a copy of the data in another location. Unlock a typical file copy a user might perform, replication usually spans large data sets or encompasses entire workloads like VMs and includes metadata about the workload. Replication typically is done on a large scale moving large amounts of data either for a specific one-time move of the data or on an ongoing basis to maintain an up-to-date copy of a data set in a secondary location for recovery or data distribution.
Virtualization	Virtualization is a process that allows the creation of multiple simulated computing environments from a single pool of physical system resources. It is often used to run multiple operating systems on the same hardware system at the same time. Virtualization lets you create several simulated environments or dedicated resources using a single physical hardware system. Through software, it adds an abstraction layer over the hardware, allowing one physical machine to be divided into multiple virtual machines (VMs). VMs run their own operating systems and applications, like standalone devices.
VMware	VMware, Inc. is a leading provider of virtualization and cloud computing solutions. Founded in 1998, VMware has played a pivotal role in transforming the IT landscape by enabling organizations to run multiple virtual machines on a single physical server, thereby optimizing resource utilization and reducing costs.

Technical specifications	HPE Zerto Software
Multi-cloud mobility	Multi-cloud mobility refers to the ability to seamlessly manage, migrate, and integrate applications, data, and services across multiple cloud environments. It involves leveraging the strengths of different cloud providers to optimize performance, cost, and resilience. By enabling interoperability and flexibility, multi-cloud mobility allows organizations to avoid vendor lock-in, enhance disaster recovery capabilities, and tailor cloud solutions to specific business needs.
Cloud migration	Cloud migration refers to the process of moving an organization's data, applications, and IT resources from on-premises infrastructure or legacy systems to cloud-based environments. This transition enables businesses to leverage the scalability, flexibility, and cost-efficiency offered by cloud computing, while also facilitating improved collaboration, enhanced security, and access to advanced technologies. Cloud migration can involve various strategies, such as rehosting, refactoring, or rearchitecting, depending on the specific needs and goals of the organization.
Platforms supported	HPE Zerto Software supports VMware vSphere, Microsoft Hyper-V, Amazon Web Services (AWS), and Microsoft Azure virtualization platforms for data protection and migration. To review a full list of supported virtualization platform versions, operating system versions, and supported features for supported HPE Zerto Software versions, please refer to the HPE Zerto Software Interoperability Matrix. The features listed below are all part of the solutions provided by HPE Zerto Software as a part of the suite of Data Protection Products from HPE.

For additional technical information, available models and options, please reference the QuickSpecs

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