

What's new in Zerto Virtual Replication 4.5?

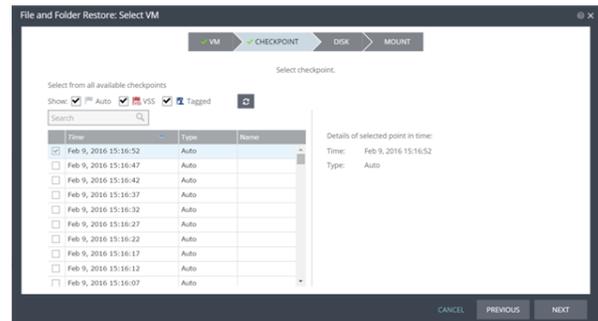
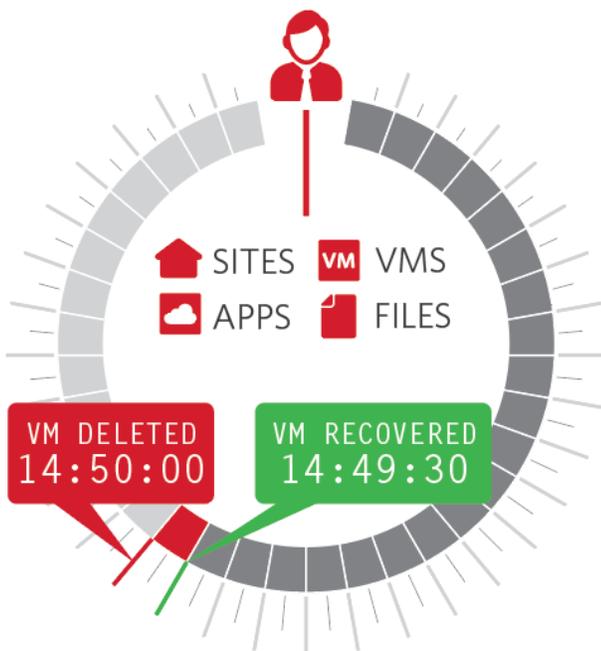
Zerto Virtual Replication 4.5 builds upon our always-on replication, with no snapshots, replication and orchestration capabilities by adding granular recovery. Now, a single file or folder can now be recovered from the journal, improving the mean time to recovery for files, folders, VMs, applications and sites. Many other improvements were made as well to simplify disaster recovery operations, further reduce ongoing management and maintenance and to automate more DR operations to ensure consistency and repeatability.

File and Folder Recovery from the Journal

What is the most common disaster that administrators must recover? It isn't natural disasters or site outages; it is actually lost or accidentally deleted files or folders. In this release, Zerto solves this most frequent disaster problem by adding the ability to recover a single file or folder from the up to 14-days in the past, from increments in seconds from the journal with just a few mouse clicks. With other solutions, there are many other steps to restore the file. The file, VM or application must first be found in the right backup window, if it exists. If the file was created in the last 4 hours for example, it won't be in a backup yet. If it can be located, it will be available from how it looked at midnight, resulting in work lost. With Zerto Virtual Replication 4.5, the file or folder is restored from the

recovery site journal with no overhead on production, no additional storage in production or the need for managing complex backup schedules. The journal stores just the data that has changed in the time configured to keep change data for. This allows the file to be recovered from just moments before it was deleted, ensuring valuable productivity is not lost. This feature further reduces the mean time to recovery for files and folders with Zerto's Always-On replication as the driving force.

- Minimize data loss across files, folders, VMs, applications, and sites with the ability to recover at any level
- Reduce mean time to recovery with the ability to leverage a simple workflow to recover files, applications and data
- Increase the granularity of recovery with the ability to recover a file or folder from just seconds ago
- Instant access to the data from a selected point in time in just a few clicks



Improved Role-based Access Control

The security of your business continuity and disaster recovery plan is of the utmost important. It is imperative that those who are making changes or updates, fully understand the impact of these changes in the event of a recovery event. In addition to the already robust permissions available from Zerto Virtual Replication, these have been added.

- **View only** - the ability to log into Zerto Virtual Replication and view the settings and configurations of the BC/DR processes. This permission level does not allow for changes to be made.
- **Manage workload protection** - the ability modify virtual protection group (VPG) settings and update BC/DR plans and processes.
- **Recovery and Migrate Workloads** - the ability to actually execute the BC/DR or migration plan. Workloads will move according to the execution plan.

Ensuring the right people are able to execute the right operations is critical for smooth business operations. This is the list of roles and permissions offered through Zerto Virtual Replication 4.0:

Live Failover / Move	Enables performing a failover or move.
Manage cloud connector	Enables installing and uninstalling Zerto Cloud Connectors. For details, refer to Zerto Cloud Manager Administration Guide.
Manage Sites	Enables editing the site configuration, including site details, pairing and unpairing sites, updating the license and editing advanced site settings.
Manage VPG	Enables creating, editing, and deleting a VPG and adding checkpoints to a VPG.
Manage VRA	Enables installing and uninstalling VRAs.
Test Failover	Enables performing a test failover.
Viewer	For internal use only.

These privileges are assigned as to the Administrator role when Zerto Virtual Replication is installed.

Increasing Efficiency across the Data Center with new APIs

There are many ways that today's datacenter is trying to increase efficiency, from automating tasks to more efficient use of physical resources to maximize hardware and software investments. Zerto recognizes that and has made several advancements to make it easier for IT to run Zerto Virtual Replication in every way.

With every new release, Zerto adds more APIs that allow you to compose your own data protection and migration workflows. With 4.5, we introduce new APIs to further automate VPG creation, protecting VMs and simplifying BC/DR operations

- Simplify management with the ability to upgrade, install, uninstall and configure Zerto Virtual Replication Appliances
- Effectively monitor alerts with all the active alerts provided with the ability to dismiss/retain alerts
- Fully automate the creation and editing of VPGs including VMs, networks, volumes and NIC configuration to reduce install and ongoing maintenance
- Respond to changing business requirements with the ability to add and remove VMs from or to a VPG
- Increase storage efficiency with compression on the journal
- Extend the history of an application with less storage used

Summary

Zerto Virtual Replication 4.5 ensures the continuous protection of applications, VMs, folders and files. This increased granularity gives organizations unprecedented control over recovery operations. New APIs and role-based controls ensure the right commands are accessed and executed, further increasing control of critical IT operations.

ABOUT ZERTO

Zerto is committed to keeping enterprise and cloud IT running 24/7 by providing scalable business continuity software solutions. Through the Zerto Cloud Continuity Platform, organizations seamlessly move and protect virtualized workloads between public, private and hybrid clouds. The company's flagship product, Zerto Virtual Replication, is the standard for protection of applications in cloud and virtualized datacenters.

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