Zerto Virtual Replication
A New Approach to Disaster Recovery

Zerto Virtual Replication, the industry’s first hypervisor-based replication solution for VMware environments, is now available for Microsoft Hyper-V. It is different from any other disaster recovery (DR) Technology because it not only has the fastest and most efficient replication and orchestration on the market today, it also is the foundational building blocks for private or hybrid cloud data protection. It provides the workload mobility and granularity needed in today’s infrastructures, without compromising on performance, simplicity of operation, scalability, reporting or flexibility. Purpose-built for production workloads and deployed on a virtual infrastructure, Zerto Virtual Replication is the only technology that combines near-continuous replication with block-level, application-consistent data protection across hosts and storage. Automated recovery, failover, failback and disaster recovery testing is available for production workloads. Simple to install, natively multitenant, yet intuitive to use, Zerto Virtual Replication is ideally suited for private, public and hybrid data protection.

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**Hypervisor-based Replication**
Continuous block level replication across VMware and Microsoft Hypervisors across multiple sites with native multi-tenancy and no hardware dependencies

**Granular, VM-level protection**
Protect exactly what is needed - VMs and VMDKs/VHDs

**Full Orchestration**
Automate failover, failback, reverse protection and disaster recovery testing with boot order and re-IPing

**Continuous Data Protection**
Recovery from any disruption with up to 5 days worth of data with recovery points available every couple of seconds

**Complete Data Protection**
Easily identify protection gaps with Disaster Recovery and Offsite Backup in one solution

**Simple Management**
Centralized management for two sites with the Zerto Virtual Manager or multiple sites with the Zerto Cloud Manager

**Aggressive Service Levels**
Realize recovery point objectives of seconds and recovery time objectives of minutes

**Simple installation**
Complete in one hour without changing application or storage configurations – architect for performance not DR

**Protect Production Workloads**
Ensure application consistency with groups of VMs which are protected, managed, replicated and recovered as one entity

**Offsite Backup**
Increase the usefulness of replicated data with long term retention capabilities at the replication site

**Storage Agnostic Replication**
Remove barriers to entry with storage independent replication

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We were using array-based replication and being charged by terabyte. Since we’re always adding more storage, this cost was overwhelming our budget and we weren’t seeing the full benefit of virtualization. With Zerto Virtual Replication not only did we substantially reduce costs in terms of our storage, but we also increased the ROI on our VMware investment. ZVR has everything we need to effectively protect our production workloads – simple DR testing and application consistent recovery.

Brian Mitchell, Senior Server Engineer

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Our customers are running their businesses 24 hours a day, 7 days a week and they require short outage windows for migrations to minimize disruptions. With Zerto Virtual Replication, we are able to cut over applications in just 15 minutes. The setup is very simple and does not require customers to change anything in their environments. Within minutes we are replicating the applications to the new location with no disruption to the environment. We will be using Zerto Virtual Replication for our next migration project.

TG Tran, Platform Architect

Fujitsu
Zerto has developed a software-based platform for workload mobility, migration, protection and recovery in hybrid-cloud environments, allowing for seamless flexibility and manageability of applications whether they reside on-premise or in the cloud. The company’s Cloud Continuity platform is based on the award-winning Zerto Virtual Replication software which has become the standard for protection, recovery and migration of data in cloud and virtualized datacenters. For more information, please visit: http://www.zerto.com.

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### Architectural Overview

#### Primary Datacenter

- **vCenter/SCVMM**: Zerto Virtual Manager
- **ESXi/Hyper-V**: VM

#### Secondary Datacenter

- **vCenter/SCVMM**: Zerto Virtual Manager
- **ESXi/Hyper-V**: VM

#### Offsite Data Retention

- **Journal**: ESXi/Hyper-V
- **EMC**: Storage
- **Pure Storage**: Storage

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### Component Description

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
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<tbody>
<tr>
<td>Zerto Virtual Manager</td>
<td>Manages disaster recovery, business continuity and offsite backup functionality at the site level; plugs into VMware vCenter and/or System Center Virtual Machine Manager or browser-based option</td>
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<tr>
<td>Zerto Virtual Backup Appliance</td>
<td>Manages offsite backup operations. Runs as a service within the ZVM at the target site</td>
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<tr>
<td>Zerto Virtual Replication Appliance</td>
<td>Replicates the VMs and VMDKs/VHDS; one per ESXi/Hyper-V host required</td>
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<tr>
<td>Zerto Cloud Manager</td>
<td>Manages disaster recovery, business continuity and offsite backup functionality across sites; provides one view of the entire environment for simple management</td>
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<tr>
<td>Zerto Cloud Connector</td>
<td>Manages network traffic and enables multi-tenancy across the infrastructure</td>
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<tr>
<td>Zerto Self-Service Portal</td>
<td>Out of the box portal that can be integrated into an existing portal with minimal development effort to offer complete disaster recovery at the application level</td>
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**About Zerto**

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