

# Zerto Virtual Replication Overview

## Your Cloud, Your Way - Multi-Cloud, Hybrid Cloud

 **PTS**  
DATA CENTER SOLUTIONS

For More Information:  
(866) 787-3271  
Sales@PTSdcs.com

Zerto Virtual Replication delivers IT resilience in a single platform for disaster recovery, data protection and workload mobility to, from or between multiple clouds. By combining continuous replication, automated orchestration and enterprise class scalability, the Zerto platform dramatically simplifies IT operations and increases business agility. This allows the flexibility to move workloads into, out of and between clouds, providing support for Azure, IBM Cloud, AWS, and 350+ cloud service providers.

With Zerto Virtual Replication:












- Achieve inter-cloud workload mobility and protection between Azure, IBM Cloud, AWS, and more
- Failback, protect and recover production workloads out of Azure, IBM Cloud, AWS, vSphere, and Hyper-V
- Replicate between Azure regions with complete intra-cloud replication and the ability to protect, recover and migrate workloads within Azure

*“The overall performance of this disaster recovery solution is beautiful. It meets our aggressive service levels and is very easy to use. I was extremely impressed with how quickly the software was up and running — we were protecting our environment in under two hours. We looked at the metrics and already had a measurable RTO of an impressive five minutes.”*

**Anup Mohan**  
**IT Manager**



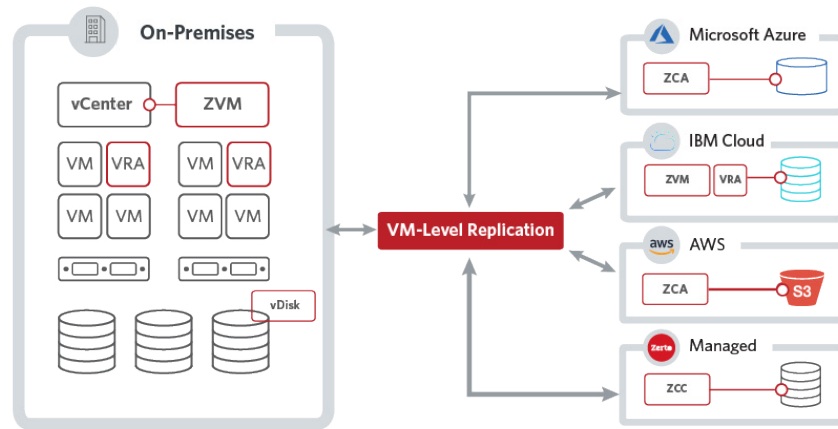
Get visibility on the health and compliance of your protected multi-site, multi-cloud environment. The Zerto IT Resilience Platform includes out of the box analytics to provide real-time and historical analysis with dashboards and dynamic reports for monitoring across sites. This ensures that Recovery Point Objective (RPO) SLAs are achieved and issues quickly identified to minimize risks to the business.

Zerto Feature	Description
 <b>Resilience</b>	Remove lock-in, unify, standardize and evolve IT with storage and hypervisor-agnostic replication
 <b>Hybrid Cloud - Multi-Cloud</b>	Bi-directional mobility for Microsoft Azure, IBM Cloud, AWS, and vCloud Director enables true hybrid cloud mobility, and efficiency
 <b>Zerto Analytics</b>	SaaS delivered real-time and historical analytics and reporting of protection and consumption data
 <b>Zerto Mobile</b>	Securely monitor protection across multiple sites anytime, anywhere, on mobile and tablet
 <b>Simplicity</b>	Single platform for data protection, recovery and mobility across multi-site, multi-cloud environments
 <b>Always-On</b>	Data loss in seconds & continuous replication of VM block-level changes with no scheduling
 <b>Granularity</b>	Rewind & recover files, VMs and applications from any point in time in the last 30 days
 <b>One-to-Many</b>	Simultaneously replicate VMs locally, to multiple remote sites and public or managed clouds
 <b>Automation</b>	DR process automation, recovery service orchestration and custom pre-/post-recovery scripting
 <b>REST APIs</b>	Fully automate deployment, protection and testing with easy-to-use, ready-made example scripts
 <b>Prove Compliance</b>	No-impact failover testing and reporting to prove recovery in minutes during working hours

# ARCHITECTURE OVERVIEW



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Zerto Component	Description
Zerto Virtual Manager (ZVM)	Central management interface for replication & recovery, deployed in a Windows VM, 1 per vCenter (4.1 to 6.5) or SCVMM (2012 R2+ to 2016) server for redundancy
Virtual Replication Appliance (VRA)	Scale-out architecture of 1 VRA per hypervisor host utilizing 1 vCPU, 4GB RAM, 12GB disk & 1 IP for continuous VM block-level replication with no snapshots & no impact
Azure Zerto Cloud Appliance (ZCA)	Combination of a ZVM & VRA running in a Windows Azure D3 v2 VM, storing replica data in a storage account, with preconfigured recovery VMs only created when needed
AWS Zerto Cloud Appliance (ZCA)	Combination of a ZVM & VRA running in a Windows AWS m4.xlarge instance, storing replica data in S3 storage, with preconfigured recovery instances created on demand
Virtual Protection Group (VPG)	Multi-VM consistency grouping mechanism for consistent recovery of applications, supports VMs across hosts, clusters, storage, HA, vMotion & Storage vMotion
Virtual Disks (vDisk)	Replica data stored as vDisks in target vSphere or Hyper-V environment with compressed journal vDisk for point-in-time recovery; with an average 7-10% additional space
Zerto Cloud Connector (ZCC)	CSP managed end-point to allow for secure communications from on-premises to Zerto CSPs offering DRaaS

## WANT TO TRY IT OUT?

Zerto Virtual Replication can be installed, configured and protecting VMs in under 1 hour with no downtime or major production changes. Download your free trial today at [www.zerto.com](http://www.zerto.com) to discover the future of IT Resilience with simple and scalable VM-based replication with RPOs in seconds.

### About Zerto

Businesses need to be available to their customers, 24/7/365. Zerto provides Resilience for Evolving IT™ by ensuring enterprises and their customers always have access to business-critical applications without any IT interruption, downtime or delay. Zerto’s award-winning Cloud Continuity Platform is the simplest, most reliable BC/DR software solution built to protect applications on any virtualized IT environment — be it public, private or hybrid cloud. Zerto’s proactive approach to recovery gives companies the confidence they need to withstand any disaster, easily incorporate new technology, and quickly adapt to accommodate evolving IT and business priorities. [www.zerto.com](http://www.zerto.com)

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