











Hypervisor-based Replication Technology Comparison

A Comparison of Zerto vs. Current & Legacy BC/DR Technologies

Zerto's innovative, hypervisor-based replication technology for VMware vSphere and Microsoft Hyper-V environments delivers a true enterprise-class, yet fully virtual-aware, complete BC/DR solution for all virtualized applications that require protection.

Zerto meets all the requirements of protecting enterprise applications running in virtualized environments by providing hypervisor-based replication, continuous data protection, disaster recovery orchestration & automation with an offsite backup for a 3rd copy of the data to ensure you can always recover in one simple to use software solution.

Feature	Description
 Hypervisor-based Replication	BC/DR for VMware vSphere & Microsoft Hyper-V hypervisors
 Granular, VM-level protection	Granular VM protection with no snapshots and no slowdown
 Storage Agnostic Replication	Replicate from anything to anything removing lock-in
 Continuous Data Protection	Any point in time recovery DVR-like protection
 Full BC/DR Orchestration	Automated failover, failback & non-disruptive isolated testing
 Aggressive Service Levels	Realize RPOs of seconds & RTOs of minutes
 Protect Applications	Recover applications with multi-VM consistency groupings
 Simple Installation	Installation in minutes with no downtime
 Offsite Backup	Always recover with 3rd data copy taken from replicated data
 Complete BC/DR	One software solution for complete BC/DR protection

COMPARED TECHNOLOGIES

The current and legacy solutions compared in this document include:

Zerto Virtual Replication

Enterprise-class replication, recovery orchestration and automation BC/DR technology

RecoverPoint for VMs (RP4VM)

Hypervisor based replication, CDP and recovery solution for VMware BC/DR

Array Based Replication (ABR)

LUN replication between storage arrays with manual recovery and testing operations

Site Recovery Manager (SRM) + ABR

SRM v6 utilizing ABR configured between matching storage arrays for VMware BC/DR

SRM + vSphere Replication (VR)

SRM utilizing the vSphere replication v6 engine for VM-level protection for VMware BC/DR

Veeam Replication

Replication using Veeam Backup & Replication v8 utilizing snapshots for VMware & Hyper-V

DoubleTake Replication

Replication using a replication engine installed in each individual VM for VMware & Hyper-V

COMPARISON METHODOLOGY

To provide a meaningful comparison, the features required as part of a complete BC/DR solution have been separated into the following categories:

- ✓ Architecture
- ✓ Replication
- ✓ Automation
- ✓ Cloud Readiness

COMPARISON MATRIX

Architecture	Zerto	RP4VM	ABR	SRM & ABR	SRM & VR	Veeam	Double-Take
BC/DR for vSphere & Hyper-V	●		●			●	●
Hypervisor-based replication	●	●			●		
Installable in minutes	●					●	●
No downtime for installation	●		●	●	●	●	●
Software only	●	●			●	●	●
Scalable to 5000 VMs	●		●				
Upgrade in-place	●		●	Complex	Complex	●	●
Offsite backup from replica data	●						

Replication	Zerto	RP4VM	ABR	SRM & ABR	SRM & VR	Veeam	Double-Take
RPO = seconds with no snapshots	●	●					●
RPO headroom for large data change	●	●					●
Recover to any point in time	●	●					
Multi-VM consistency groupings	●	●	●	●			
Cross Hypervisor replication	●						●
Storage agnostic per-VM replication	●	●			●	●	●
Zero guest performance impact	●						
vMotion & svMotion support	●	●			●	●	●
Built-in WAN compression	●	●			●	●	
Bandwidth throttling and QOS	●						
Schedule application consistency	●		●	●		●	
Automatic journal re-sizing	●						
SQL Temp DB optimization	●						

Automation	Zerto	RP4VM	ABR	SRM & ABR	SRM & VR	Veeam	Double-Take
RTO = minutes with boot ordering	●			●	●	●	
Cross-hypervisor VM conversion	●						
Orchestrated & automated failover	●	●		●	●	●	
No snapshots on recovery VM	●	●	●	●			●
Failback with reverse protection	●	●		●	●		
Non-disruptive failover testing	●	●		●	●		
Automatic re-IP of VMs	●			●	●	●	
Custom script support	●			●	●	●	

Cloud Readiness	Zerto	RP4VM	ABR	SRM & ABR	SRM & VR	Veeam	Double-Take
Replication to Zerto Cloud Provider	●						
Replication to AWS	●					●	
Multi-tenancy & traffic isolation	●						
vCloud Director integration	●					●	
Self-service portals	●						
Full REST based API	●	●		●	●	●	
Multi-site management interface	●					●	

SUMMARY

Only Zerto Virtual Replication provides enterprise-class replication features that easily align with flexible virtual environments and provides the added advantages of being storage agnostic, hypervisor agnostic with fully integrated orchestration and automation that is cloud ready and provides a complete BC/DR solution for your virtualized applications.



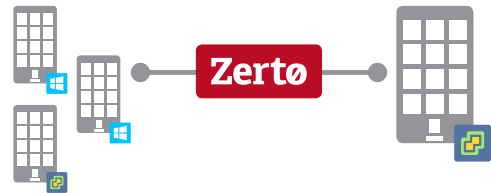
Gartner, "Cool Vendors in Business Continuity Management and IT Disaster Recovery Management, 2014", Roberta J. Witty, John P. Morency, Robert Naegle, April 2014. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

TOPOLOGIES

1 Private Cloud—Any Storage Multi-Hypervisor



2 Satellite Offices—Any Distance



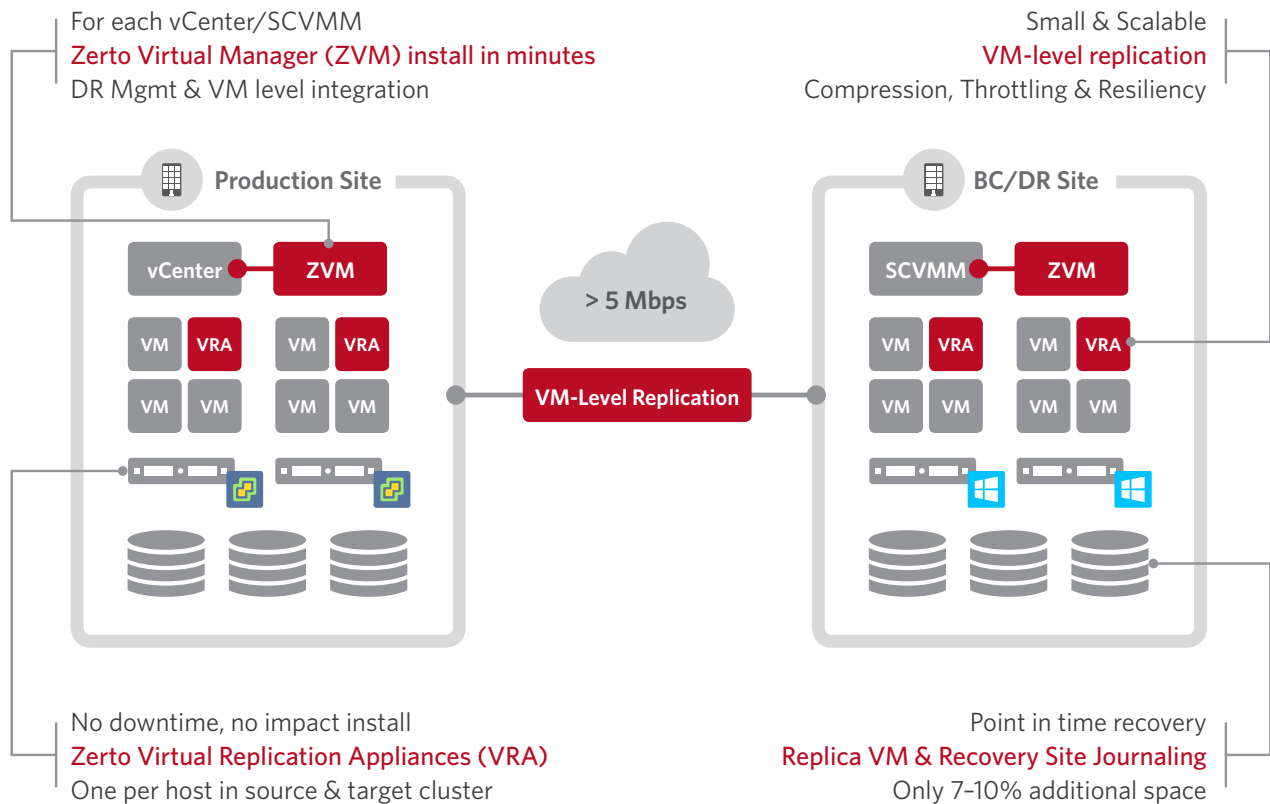
3 Hybrid Cloud—DRaaS, Intra-Cloud & Reverse DRaaS



4 Public Cloud—DRaaS to AWS



MULTI-HYPERVISOR ARCHITECTURE



WANT TO TRY IT OUT?

Zerto Virtual Replication can be installed, configured and replicating VMs in under 1 hour. With simple VM-based replication enabling RPOs of seconds and RTOs of minutes why not go to www.zerto.com and click to **download a free trial** today?