

Solution Brief

Business Continuity and Disaster Recovery in a Box

- ✓ Truly Virtual (VM) Aware, Tier 1 Enterprise Class Capabilities
- ✓ Application Level Protection and Recovery
- ✓ Simple and Cost-effective BC/DR
- ✓ Scalable, Software Only



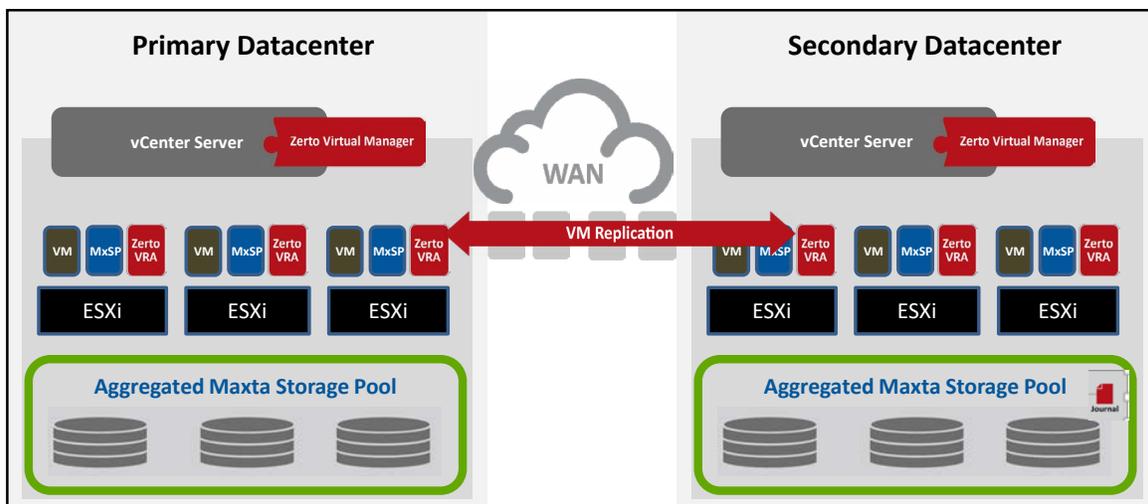
The Challenge

Business Continuity (BC) and Disaster Recovery (DR) are key IT capabilities. Businesses rely on applications and data – when they are unavailable, productivity, revenue and a hard-earned brand are damaged. Many organizations think that only weather events cause outages, but that is not the case. Power outages, ransomware, and human errors can also be the cause of significant downtime. A robust disaster recovery and business continuity solution ensures employees and customers have access to the information they need, minimizes financial loss, and provides regulatory compliance for companies. With today's reliance on IT and the applications it serves, IT managers face the challenge of building and managing infrastructure with the following attributes in a cost effective manner:

- ✓ Highly available architecture with no single point of failure
- ✓ Ability to enable snapshots and clones of VMs for rapid backup and recovery
- ✓ Ability to non-disruptively test application failover

In a traditional architecture, it is complex and expensive to deploy an efficient BC/DR configuration. In addition to servers running the applications, the solution requires a SAN/NAS storage array along with storage networking switches, SAN/NAS replication software, and an orchestration tool to configure and test failover and failback capabilities. Any change in this scenario can result in a broken BC/DR process.

The Solution



Enterprises of all sizes leverage virtualization to manage their IT resources. A comprehensive plan and solution for disaster recovery that is purpose-built for virtual environments is essential. The disaster recovery solution must scale in functionality and performance to meet the requirements of a complex high-performance enterprise IT infrastructure. This solution brief describes a cost effective “Disaster Recovery in a Box” comprised of Maxta® Storage Platform (MxSP™), Zerto Virtual Replication, and industry standard x86 servers with internal disks.

Why Maxta and Zerto for DR?

The Maxta Storage Platform and Zerto Disaster Recovery solution for mission critical applications provides application-level BC/DR for both compute and storage. Maxta and Zerto together provide a cost effective business continuity and disaster recovery solution in a box that is purpose built for virtual environments. Combining the Maxta storage platform running on standard x86 servers with Zerto's best of breed heterogeneous replication provides a simplified and automated BC/DR solutions that scales.

Deployment scenarios of the joint solution include replication from:

- 1) MxSP at primary site to MxSP at recovery site
- 2) MxSP at primary site to any other storage platform at the recovery site
- 3) Any storage platform at the primary site to MxSP at recovery site

Solution Benefits

- ✓ Seamless integration to deliver VM-centric enterprise-class replication and data services
- ✓ Simplified and automated application-level BC/DR solution
- ✓ Cost-effectively scale up VM to support larger VM workloads
- ✓ Eliminate the complex management of storage arrays, management, and storage networking

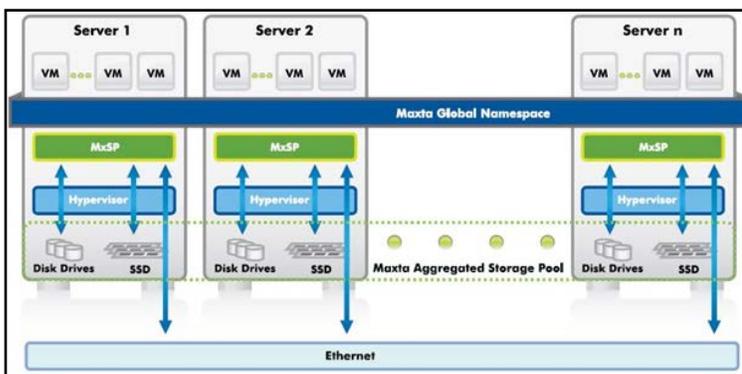
Configuration Details

- ✓ VMware vSphere & vCenter
- ✓ Maxta Storage Platform – hyper-converged, VM-centric storage
- ✓ Zerto Virtual Replication – VM-aware replication, automation, and orchestration for recovery
- ✓ 4 x86 servers – 2x 6C CPU, 128GB RAM, 8TB 7.2K RPM SATA HDD, 800GB eMLC SSD, dual port 10GbE NIC

Components of the DR Solution

Maxta Storage Platform

The Maxta Storage Platform is a hypervisor-agnostic, highly resilient storage platform for the virtual data center which is helping transform the enterprise storage market. It fully integrates with server virtualization at all levels from user interface to data management, while supporting all possible deployments of virtual data centers, including private, public and hybrid clouds. Through its software-only solution or validated MaxDeploy™ appliances, Maxta turns standard servers into a converged compute and storage solution, leveraging server-side flash and disk drives to optimize performance and capacity. Maxta distributed architecture enables shared storage with enterprise-class data services and the ability to independently scale-up and scale-out compute and storage resources. This results in dramatically simplifying IT and significant cost savings.



The unique value and differentiators of MxSP are:

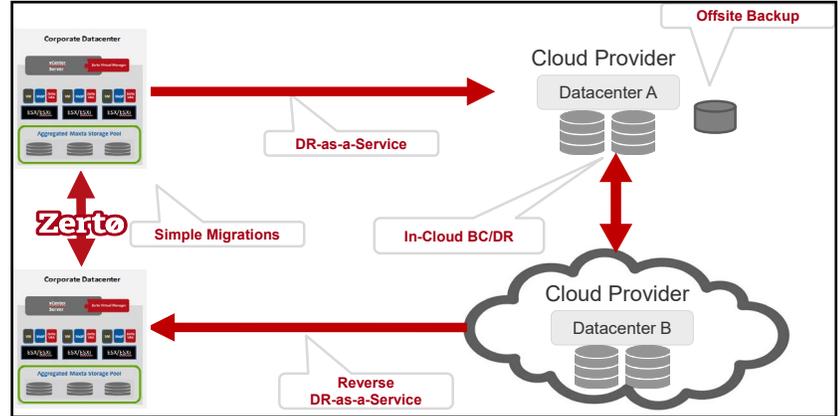
- ✓ Maximize Choice
 - 1) Any Server
 - 2) Any Storage Configuration
- ✓ Maximize Flexibility
 - 1) Software Agility
 - 2) Application Optimized
 - 3) Independently scale compute and storage

Zerto Virtual Replication

Zerto Virtual Replication, the industry's first hypervisor-based replication solution for VMware environments, is different from any other BC/DR technology because it has the fastest and most efficient replication combined with fully automated failover, failback, and non-disruptive DR testing for production workloads. With Zerto Virtual Replication, customers can easily migrate production workloads across different infrastructures to increase efficiencies. Simple to install, natively multi-tenant, and intuitive to use, Zerto Virtual Replication is ideally suited for private, public, and hybrid BC/ DR and long term retention for complete data protection.

Key components of Zerto Virtual Replication:

- 1) **Virtual Protection Groups:** The unit of replication is a virtual protection group. This is a group of VMs that make up an application. These consistency groups ensure application consistency and write-order fidelity.
- 2) **Aggressive Service Levels:** Continuous block level replication delivers recovery point objectives measured in seconds and automation delivers recovery time objectives measured in minutes.
- 3) **Non-disruptive disaster recovery testing:** Testing can be executed during the day into a test network so IT can see exactly how recovery is going to work. Replication is still occurring and the environment is still protected.
- 4) **Recover from any point in time:** The journal provides historical recovery points for 1 hour up to 14 days. The journal can be used to recover from natural disasters, logical failures and even ransomware.
- 5) **Failover, failback and reverse protection:** Within the virtual protection group, re-IP and boot order is configured making recovery fast. Failback is executed as well in just a few clicks and reverse protection is a simple checkbox.
- 6) **Multi-site and multi-tenant:** Natively multi-tenant and supporting replication between multiple sites delivers simplicity while ensuring minimal data loss and downtime for the business.



Conclusion

Maxta Storage Platform integrated with Zerto Virtual Replication provides a simplified, automated and cost effective BC/DR solution. The “Disaster Recovery in a Box” software-only solution is purpose built for virtual environments. The solution delivers VM-centric enterprise-class replication and data services, thus providing enhanced data business continuity and disaster recovery capabilities.



Think Outside the Storage Box

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