



Seamless Data Center Migrations with Zerto Virtual Replication

Data center migrations are massive projects, consuming time and resources while impacting the productivity of the company. Resources and application availability must be carefully scheduled and planned to try to minimize the inevitable loss in productivity. However, with Zerto Virtual Replication (ZVR), migrations can be a near painless activity – even easy in most cases. Leveraging the core attributes of ZVR, you can migrate your virtualized applications in just a few minutes with minimal downtime.

Zerto Virtual Replication Simplifies Migrations

- Downtime is reduced to minutes, so extended outages or maintenance windows are not required
- Migrating VMs is as simple as pointing the replication to the target data store of choice
- Migrations can be very granular with the ability to migrate at the VMDK-level, which can be pointed to different tiers of storage
- Support for a heterogeneous environment allows for migrations between different types of hardware and different versions of VMware products, from a vCenter environment to a vCloud environment, and even different versions of ZVR
- Automated IP reconfiguration, boot order and other resource intensive steps accelerates the time to completion of the migration
- Productivity and revenue losses can be drastically reduced as applications and data are available quickly

Data Center Migration Challenges

The biggest concern during any migration is the environment downtime. Historically, server and data migrations take a time and introduce extended business outages. Challenges include:

- Loss of revenue and productivity with the extended unavailability of applications and data
- Limited experience in datacenter moves, often a once-in-a-career event, can lead to unexpected complications during downtime
- Leveraging professional services is an option to gain migration expertise, however these services are expensive
- Aging infrastructure means you don't know what you will find during the migration
- Risk of losing data and applications altogether, especially with older applications being run on an older infrastructure
- Requires weeks of extensive planning and preparation, and even with this planning there are still significant issues

Why is a migration so easy with Zerto Virtual Replication?

Today's tier-1 applications typically consist of multiple VMs that exist across hosts and datastores or even clusters and arrays. Zerto Virtual Replication (ZVR) is a virtual aware, software only solution, which can migrate your applications quickly and easily. The key to a simple migration with ZVR is the Virtual Protection

About Zerto

Developed exclusively for virtualized and cloud environments, Zerto is rapidly becoming the standard for disaster recovery and business continuity in the modern data center. The company's award-winning solution, Zerto Virtual Replication (ZVR), is the industry's first hypervisor-based, virtual aware, data replication software, offering simplicity and greatly reduced operational and maintenance costs compared to legacy array-based replication. ZVR received 'Best of Show' at VMworld 2011, as well as 2012 and 2011 'Product of the Year' Gold Awards. For more information, please visit:

www.zerto.com.

“One of the key attributes of ZVR is, as long as VMware supports it, Zerto can support it. We were migrating older applications, which could have been a very complex and costly process. With ZVR, not only is the process efficient, it is so simple. We just select the virtual machines and migrate them over. This could have taken us months using a traditional solution.”

— Simon Miles,
Technical Specialist,
KingFisher IT

Group (VPG), which is a group of VMs that support a particular application. Within the VPG, several manual steps associated with typical migrations are automated, accelerating the process for completion in minutes, versus the hours or days a manual migration requires.

- **Move the entire application with Virtual Protection Groups (VPGs) in minutes:** Within the VPG, you can configure the VM boot order and IP re-configuration in just a few clicks. ZVR starts replicating the application to the recovery target, and once that application is protected it is ready for migration. ZVR then orchestrates the shutdown, migration, power-on, re-IP, and script execution of all of the VMs in the VPG, completing this process in minutes versus the hours or days that a manual migration requires.
- **Downtime is reduced to minutes:** When ZVR is used for migration downtime is reduced from days or weeks to minutes. ZVR reduces the Recovery Point Objective (RPO) of each of the virtual machines down to seconds, automatically replicating any last-second changes and orchestrating VM power-on at the target site.
- **Pre-seeding accelerates environment availability:** ZVR supports pre-seeding, so instead of replicating the VM over the network, you can physically ship a USB drive or other storage device to the target site. Once the VM is online from the pre-seed, then it will delta-sync any updates, and the VM is ready for migration.
- **Hardware agnostic:** ZVR does not depend on physical storage or servers, eliminating a whole step from migration planning. Administrators simply pair the originating data center with the migration target, set up replication on the VMs to be migrated, and move them at their leisure.
- **Complete migration validation:** An issue that is encountered when migrating applications, is that a piece of the application was not identified and included in the migration. For example, a VM was missed. ZVR enables you to test the migration before committing, enabling 100% assurance that the migration will be successful. If a VM was missed, you can easily rollback the migration with no penalty.
- **Support for heterogeneous environments:** ZVR can replicate between different versions of vSphere and from vCenter environments to vCloud environments. This provides a great deal of flexibility in terms of preparing the environment for migration.
- **Automation:** ZVR automates the boot order of the VMs, runs pre or post boot scripts and can assign new production network IP addresses or test network IP addresses.

Summary

Zerto Virtual Replication greatly simplifies and accelerates application and data center migrations. Easier migration means that new hardware and software is in production faster and ROI is accelerated. Additionally, Zerto migrations yield little or no downtime, so business operations proceed without interruption and revenue generating activities are not compromised. Migrating an application now takes just minutes, giving time back to the IT team to focus on projects and activities that move the business forward.

“This is when we really saw the power of Zerto. An application migration typically takes a few days to plan and then an additional few days to execute. During the actual migration, the application is not available. With Zerto, we completed the application migration in just 18 minutes. We were just blown away.”

— Virtualization Evangelist,
Fortune 100 Company

Zerto

Contact us today to learn more or request a free trial at www.zerto.com or info@zerto.com.

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