

# Veeam Backup & Replication

for VMware Infrastructure

A groundbreaking disaster recovery solution for VMware Infrastructure 3 that combines backup and replication in one product

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for VMware

## Veeam Backup & Replication

- 2-in-1: Backup and Replication
- Full ESXi support with & without VCB
- File Level Recovery for Windows & Linux

Veeam Backup & Replication™ is the first enterprise-ready solution that combines backup and replication in a single product for fast recovery of your VMware ESX servers. Backup is easy, but recovery can be hard – and that's when the clock is ticking loudest. But with Veeam Backup & Replication, fast recovery is easier than you ever thought possible.

As virtualization increasingly handles mission-critical production workloads, organizations must be assured of effective backup and appropriately fast recovery of the virtual infrastructure. Balancing cost with flexibility is the key: some data requires replication to ensure business continuity, while other data is best backed up and recovered using less expensive hardware and techniques. Veeam Backup & Replication offers both techniques – backup and replication – through one interface, in one product, at one price.

### 2-in-1: Backup and Replication

With Veeam Backup & Replication, organizations can benefit from a unified solution for both backup and replication to protect virtual machines from both hardware and software failure. Both backup techniques can be optionally used with the VMware Consolidated Backup (VCB) framework, reducing the load on ESX servers and allowing for faster back up. Simply choose the option that is right for each virtual machine, and manage them all with Veeam Backup & Replication.

### Full ESXi support with & without VCB

While others promise – Veeam delivers! In addition to the ESXi

*"We tried for several months to get a competing product to work, investing a lot of time and money in the process. That product brought our system to a crawl, and backups failed 75% of the time. Our environment is almost 100% virtualized, so we need a backup system we can rely on. We switched to Veeam Backup & Replication, and we're very happy with it. Nothing else in the virtualization space offers comparable functionality and reliability."*

— Kim Byram, Director, business and Information Systems,  
ISCO Industries, LLC.

backup through VCB that was introduced with version 2.0, version 3.0 now supports ESXi backup without VCB. Veeam Backup & Replication is the only VMware backup solution that lets you backup and restore virtual machines running on ESXi without requiring VCB.

### File-level recovery for Windows & Linux

Veeam's fast file-level recovery feature allows you to restore individual files from your image-level backups and replicas in seconds, without having to extract the full VM image to your local drive. And you can extract individual files to the latest state or to a specific point in time. This capability also means you no longer have to back up your data twice in order to have both file-level and image-level recovery readily available. Veeam's file-level recovery supports most major operating and file systems, including Windows, Linux, BSD, Mac and others.

## What's New in version 3.0:

- Support for ESXi
- Linux file-level recovery
- Windows 2008 VSS support
- VM templates backup
- Improved performance

### Database-consistent backup

Veeam Backup & Replication leverages Windows Volume Shadow Copy Service (VSS) functionality to ensure consistent backups of the applications within your virtual machines. Unlike other vendors featuring limited VSS support, Veeam provides the most complete implementation of VSS support, equipping you for proper restore of VSS-aware applications (e.g. Active Directory, Exchange) from the created backups. With version 3.0, all VSS-aware Windows OS versions are supported, including Windows 2008.

### Reduced storage costs with data de-duplication

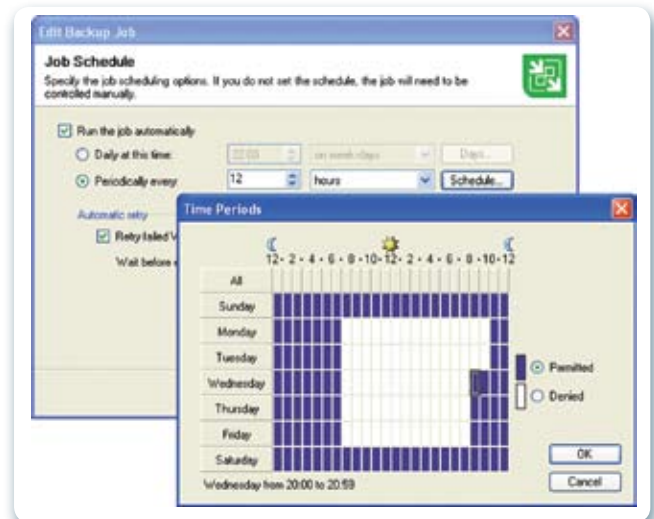
When performing backups of multiple virtual machines, Veeam Backup & Replication de-duplicates similar blocks inside the backup file. De-duplication provides exceptional results when you back up multiple virtual machines created from a single template, or VMs with gigabytes of free space on their pre-allocated logical drives. Data de-duplication reduces disk space requirements for your backups, which results in significant cost savings. Veeam Backup & Replication 3.0 also offers a compatibility mode for storage devices using hardware de-duplication.

### Faster backup and restore with synthetic backup

Veeam Backup & Replication uses a synthetic backup technique that allows you to do a full backup only once, and incrementally back up only the changes in all subsequent runs. During each incremental backup, the software rebuilds the last full image to the most recent state, and calculates a reverse increment to store the historical change data. This provides you with a full VM image for quickest restore to the latest state, while reverse increments allow for restoration to any point in time in case of software corruption.

### Replica rollback

Backups and replicas produced with Veeam Backup & Replication can be easily restored to a particular point in time. This protects your infrastructure against both hardware and software corruptions – such as in the case of a virus – when software corruption is usually noticed only after a few replication cycles happen.



### Integration with VMware Consolidated Backup (VCB)

To achieve the smallest backup window, Veeam Backup & Replication leverages VMware snapshots and optionally integrates with the VCB framework. Using its proprietary "VCB on-the-fly" technology, Veeam Backup & Replication does not require storing VM images on the VCB proxy during backup, allowing for faster backup directly to the target without requiring additional VCB proxy disk space. Veeam Backup & Replication also supports incremental backup through VCB, which is not supported natively.

### System Requirements

**VMware vSphere 4:** ESX(i) 4.0; vCenter 4.0 (optional); VMware Consolidated Backup 1.5 Update 1 (optional).

**VMware Infrastructure 3:** ESX(i) 3.x; VirtualCenter 2.x (optional); VMware Consolidated Backup version [compatible](#) with your ESX Server version (optional).

**OS:** Windows XP, Windows 2003, Windows Vista, Windows 2008. Both 32-bit and 64-bit OS editions supported.

**Hardware:** Processor: Pentium IV CPU or faster (multi-core recommended). Memory: 512MB RAM. Disk Space: 100 MB. Network: 100 Mbit/sec or faster preferred.

### Ordering information and Support

For pricing, please contact your Veeam Software reseller or send a sales inquiry at <http://www.veeam.com/salesinc.asp>

For technical support please visit <http://www.veeam.com/support.asp> or email [support@veeam.com](mailto:support@veeam.com)

and our support representative will contact you promptly.

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