



NetJapan
vmGuardian

Agentless backup and disaster recovery for VMware ESXi

- Backup multiple virtual machines into a single image file in a single pass
- Inline Data Deduplication Compression improves backup performance and reduces storage requirements
- Installs as a VMware ESXi virtual appliance
- No need for backup agents
- Management via a web browser
- Restore entire virtual machines or selected files
- Supports VMware ESXi 5.5



Backup multiple virtual machines on a VMware ESXi host into a single image file with a single pass.

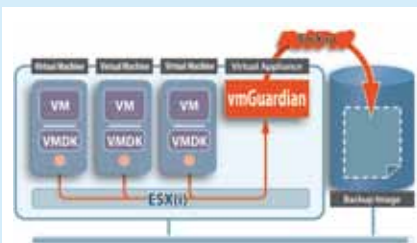
NetJapan vmGuardian 3.0

vmGuardian™ is an agentless imaging backup solution for virtual machines running under VMware ESXi. The Inline Data Deduplication Compression (IDDC) feature eliminates duplicate data across all the virtual machines running in a VMware ESXi environment, while the backup is being made, and into a single image file.

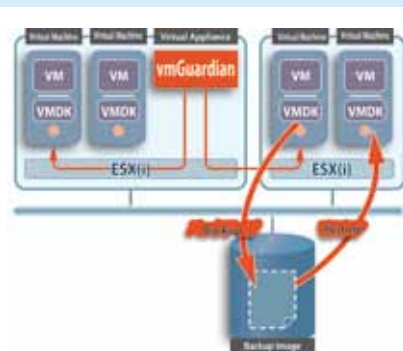
vmGuardian installs in VMware ESXi as a virtual appliance and offers a web-browser based management interface. Built on ActiImage Protector's proprietary imaging technology, vmGuardian provides the same advanced backup features such as Smart-Sector Technology and Inline Data Deduplication Compression.

How vmGuardian Works

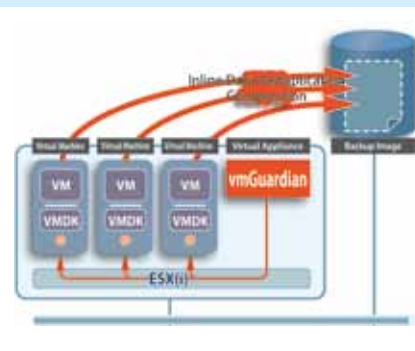
vmGuardian is installed as a virtual appliance. It creates backup images of **virtual machines** (VM) and **virtual disks** (VMDK).



vmGuardian can restore a VM to the same host or migrate it to a new ESXi host. Simply create a backup image and choose where you want to restore it.



Use vmGuardian's **Inline Data Deduplication Compression** feature to save time and storage space when backing-up your virtual machines (VM) and virtual disks (VMDK).



ActiImage Protector Main Features

64-bit Appliance Architecture

New 64 bit architecture improves backup speed and reduces overall system impact of backup and restore.

New Incremental File Type

vmGuardian 3.0 supports a new file type enabling it to save respective incremental backup images independently.

Consolidation of Incremental Backups

Incremental Consolidation Backup Management (ICBM) option automates incremental file consolidation.

New Branched Restore Feature

This feature allows you to restore a virtual disk under a different name, creating a new branch at a specific point-in-time from the selected backup.

Higher Performance

Up to 10 percent increase in performance over the previous version.

Backup Features

VM backup

Use vmGuardian to select VMs from a host or resource pool in an ESXi host or vSphere virtualization platform. Backups of multiple virtual machines can be combined into a single image file.

Incremental Backup

vmGuardian's fast incremental image backups reduce your storage space requirements as they only include the sectors that have changed since the last backup was taken.

Smart Sector Technology

Enables fast backup of only the used sectors, resulting in a reduced need for disk space.

Inline Data Deduplication Compression

vmGuardian's Inline Data Deduplication Compression (IDDC) feature efficiently eliminates duplicate blocks of data in a single virtual disk or across multiple virtual disks. The image files are then compressed at a remarkably high rate, resulting in significantly reduced storage space needs without the need for an extra media server.

vMotion and VMware HA Now Supported

Support for continuous incremental backups of virtual machines that have been migrated to another host using vMotion or VMware HA.

Advanced Backup Technology

vmGuardian uses many of ActiImage Protector's advanced backup technologies.

Boot Environment

Powered by ActiImage Protector™, vmGuardian's recovery environment allows the backup and recovery of an entire ESXi host.

Supports Windows and Linux file formats

Installation

Installs as a VMware ESXi Virtual Appliance

vmGuardian is installed as a virtual appliance into the ESXi environment.

Agentless Backup of Virtual Machines

vmGuardian offers agentless backup of virtual machines thanks to VMware's vStorage API for Data Protection.

Backup or Restore... Anytime... Anywhere... Via a Web Browser

Easy To Use Web Browser Based UI

With vmGuardian's web browser based user interface, users can easily choose virtual machines to backup and restore, define a group of virtual machines, schedule tasks, as well as manage licenses etc.

System Requirements

| | |
|---|--|
| Hypervisor | VMware ESX/ESXi 4.1 or later including ESXi5.5 (Support for vStorage API is required) 40GB of disk space is required for the data store of ESXi host when installing the appliance machine Appliance machine requirements Virtual Sockets: 4 Core number per socket: 1 Memory: 4GB |
| Browser | Internet Explorer 9 or later Google Chrome v25 or later FireFox v19 or later Recommended screen resolution: 1280x1024 |
| Supported OSes | Windows Server 2003 or later (VMware tools should be installed and the application should support VSS) Windows 2000 Server with SP4 and Linux (VMSync Driver must be installed and script must be set properly). |
| Backup Virtual Machine (File System) | Windows Server 2012, 2012 R2 Windows Server 2008, 2008 R2 Windows Server 2003, 2003 R2 Windows 2000 Server SP4 Windows 8 Windows 7 Windows Vista Windows XP SP3 (The NTFS file system is supported in operating systems listed above) Linux(Ext3/Ext4/Swap/LVM) * VMware Tools installation is required on the virtual machine with VMSync option ON |
| Backup Storage for Image Files | Direct attachment to the appliance machine (USB 2.0, IDE, SCSI) NFS, CIFS, Samba, iSCSI |

Notes

Backup of the entire ESXi host can be performed using the ActiveImage Protector Boot Environment (AIPBE) for vmGuardian (included with vmGuardian). You can select multiple or individual virtual machines to backup.

Flexible Backup Schedule Configuration Settings

Backup tasks can be configured to be executed one-time only, weekly, or monthly.

E-Mail Notification

Email notification can be sent to an email address of your choice upon success or failure of a backup.

Restore an Entire Virtual Machine

Improved File Restore Feature

Files located on a virtual disk can be selected from a backup image and downloaded as a ZIP file.

Flexible Restore Options

vmGuardian allows you to restore entire virtual machines or virtual disks (VMDK) to pre-existing virtual machines.

Restore and Migrate VMs

Individual virtual machines can quickly and easily be restored to the same ESXi host or migrated to a different ESXi host.

Restore to a New VM on the Same Host

vmGuardian can restore existing VMs to new virtual machines within the same ESXi host.

Feature Comparison

| Main Features | vmGuardian | ActiveImage Protector |
|--|-------------|-----------------------|
| Configuration/setting of virtual machine plus backup/restore of virtual disk | Y | N |
| Inline Data Deduplication Compression | Y | Y |
| Incremental backup | Y | Y |
| Consolidation of multiple backup files into a single image file | Y | N |
| Smart Sector Backup | Y | Y |
| ESXi host backup | with AIPBE* | Y |
| Browser Interface | Y | N |
| Backup agent for virtual machine | no install | requires install |

*AIPBE: ActiveImage Protector Boot Environment for vmGuardian (ISO)



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