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Software

# SnapManager 2.0 for Virtual Infrastructure

Simplify management and increase productivity for backup, restore, and disaster recovery in your VMware environments

## KEY BENEFITS

### Eliminate backup windows

Perform near-instant backups using NetApp® Snapshot™ copies, which in conjunction with VMware® snapshots provide application-consistent backups for your virtual machines.

### Cost-effective disaster recovery

Protect more of your critical data with efficient replication to your disaster recovery site.

### Recover what you need quickly

Restore data stores, VMs, VMDKs, and guest OS files rapidly in the event of failure.

### Improve productivity

Simplify administration by enabling VMware administrators to automate backup and easily manage recovery processes in your VMware environments.

## THE CHALLENGE

### Simplify backup and management of complex virtual environments

Along with your virtualized server environment come a whole new set of data protection and business continuity requirements.

Virtual machines, just like real servers, require administration and management to make sure that backups are completed and recoverable when needed.

You'll probably find that your server utilization will increase dramatically. With this increased utilization comes the benefit of more efficient use of your infrastructure. Unfortunately, these highly utilized servers may no longer have the additional capacity to run a backup agent.

You could use a dedicated proxy server to back up multiple ESX servers—but the downside is that you may end up adding more proxy servers to meet your ever-increasing workload demands.

## THE NETAPP SOLUTION

### Streamline protection of your virtual environment

With SnapManager® for Virtual Infrastructure, you'll be able to streamline and automate your virtual machine backup process.

The keystone is our Snapshot technology, which enables you to create point-in-time copies of your virtual machines or entire data stores and then restore from these backup copies at any level of granularity—VM, disk (VMDK), or guest file—simply and quickly when required. This is all done on our storage systems, freeing your servers to run applications, not backups.

SnapManager for Virtual Infrastructure simplifies backup and recovery management by allowing the VI administrator to “set it and forget it.” For example, you can:

- Schedule a post-backup script to send your latest backup to tape
- Set a time-based or number-based copy retention period
- Replicate your data after every backup to make sure that you're DR ready
- Schedule backups at the datastore level so that all VMs provisioned within that data store are automatically protected

### Nondisruptive backups that don't affect performance

SnapManager for Virtual Infrastructure uses NetApp Snapshot technology, a feature of Data ONTAP®, to make point-in-time copies while applications are running, enabling your virtual machines to be backed up almost instantaneously, regardless of the number of virtual machines being backed up. And because they're so fast and have imperceptible impact on host or network performance, backups can be scheduled as frequently as needed. Since only incremental changes are stored, Snapshot copies are very space efficient, allowing more backups to be cost effectively kept on disk for rapid recovery from up to hundreds of recovery points.

### Fast recovery time

SnapManager for Virtual Infrastructure enables quick and easy recovery of VMware virtual machines. Simply select the desired recovery point stored on disk and rapidly restore your virtual machine.

### Simplified disaster recovery

SnapManager for Virtual Infrastructure also streamlines remote replication for automated, rapid disaster recovery. Replication from the primary system to the disaster recovery site can be automatically triggered immediately following a backup, and in the event of a disaster, the Snapshot copy at the disaster recovery site can be rapidly promoted to a production copy.

### PROTECT YOUR VIRTUAL INFRASTRUCTURE

SnapManager for Virtual Infrastructure addresses the needs of highly dynamic, resource-intensive virtual environments without introducing administrative complexity. By leveraging NetApp Snapshot and SnapRestore technologies, it provides an intuitive interface to centrally manage backup, recovery, and replication of your virtual machines. Empower your administrators to perform their tasks quickly and easily, enhancing productivity and protecting your virtual environment with imperceptible performance impact.

### SYSTEM REQUIREMENTS

NetApp SnapManager for Virtual Infrastructure 2.0 requires:

- VMware Infrastructure 3.5.x or later
- Data ONTAP 7.2.3 or later (FAS)
- Data ONTAP 7.2.4 and later (vFiler™)

Guest OS support:

- Windows® support in SMVI 2.0
- Windows versions: XP, 2003, Vista®, and 2008
- File systems: NTFS (most Windows) and FAT
- Linux® support in SMVI 2.1.

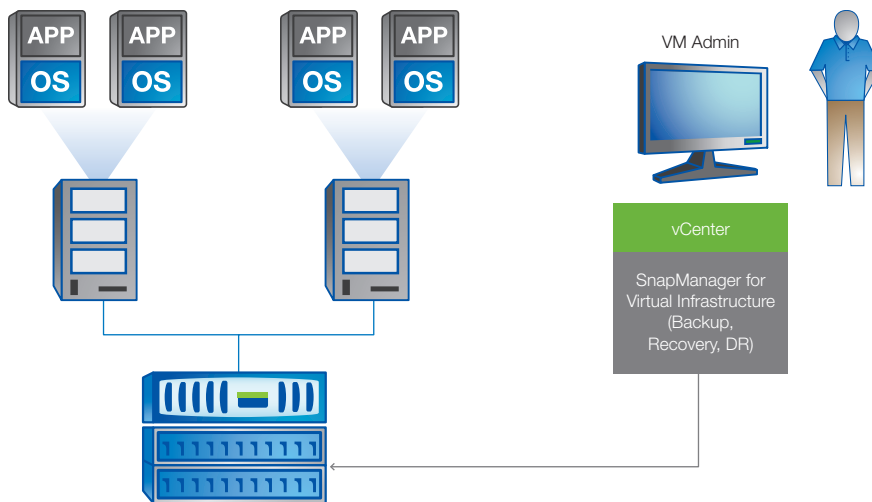


Figure 1) SnapManager for Virtual Infrastructure empowers VMware Administrator to centrally manage backup, recovery, and DR of virtual machines.



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