

# VMWARE BACKUP WITH EMC NETWORKER

## Unified protection for virtual environments

### ESSENTIALS

- Enables fast, efficient VMware protection using traditional or deduplication backup
- Integrated deduplication with EMC Avamar and EMC Data Domain significantly reduces impact on network and infrastructure
- Backup within virtual machine guests for application consistency or use vStorage APIs to deliver non-disruptive, off-host protection
- VMware vCenter integration enables auto-discovery and visualization of the VMware environment to ensure protection of new and moved virtual machines



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As more of your information moves from physical servers to a virtual infrastructure, you need to consider new approaches for protecting your critical information and application assets. EMC® NetWorker® solves physical and virtual machine backup challenges with unified traditional and next-generation data protection that dramatically reduces backup windows and ensures reliable recovery.

NetWorker automates and accelerates data protection across an enterprise to ensure vital information is safe and available. By providing support for a wide range of applications, operating systems, and environments, including VMware® vSphere™, NetWorker simplifies management and lowers costs by centralizing the entire backup environment.

### DEDUPLICATION

Data deduplication is the enabling technology for next-generation data protection solutions. With deduplication only new, unique sub-file data segments are sent and stored for backup, which can speed performance up to 100 percent, reduce disk I/O by up to 95 percent, and reduce the daily impact on network and infrastructure by up to 90 percent. NetWorker with deduplication reduces the impact of backup operations on virtual hosts and enables even greater consolidation and value from virtualization. NetWorker is the only backup software application to provide seamless integration with the industry's two leading deduplication solutions—EMC Avamar® and EMC Data Domain® deduplication storage systems. NetWorker deduplication support includes:

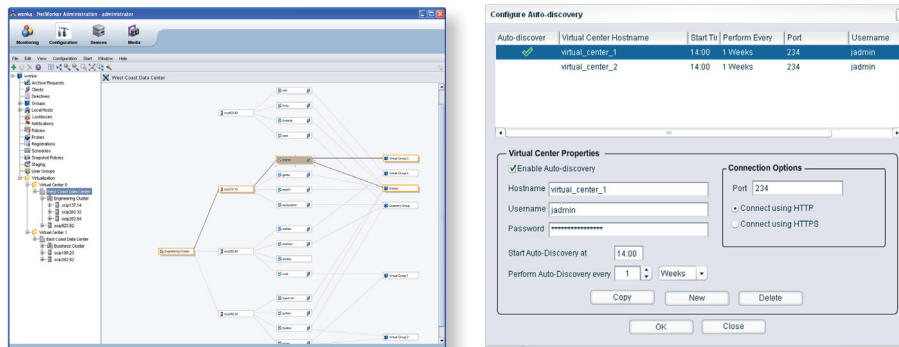
- Integration with Data Domain systems via EMC Data Domain Boost software drives new levels of speed and efficiency for managing data center workloads
- Client deduplication solves critical backup challenges in remote offices and virtual environments
- Network-efficient replication with deduplication delivers fast and reliable bandwidth efficient disaster recovery protection
- A common index and media database ensures reliability and recoverability.

### VIRTUAL MACHINE GUEST BACKUP

NetWorker offers flexible backup options for individual virtual machine guests within VMware environments. Guest-level backup with the NetWorker client software and application modules enables granular, application consistent backup. This delivers maximum flexibility for recovery and ensures applications are restartable post data restore. Users can leverage traditional or deduplication backup—or both—to meet virtual machine data protection and recovery requirements.

## OFF-HOST VIRTUAL SERVER BACKUP

To meet the challenge of data protection within a consolidated VMware environment, NetWorker integrates with the VMware vStorage APIs for Data Protection (VADP) to centrally protect virtual machines. With VADP, the backup process is diverted from production hosts onto physical or virtual proxy servers, ensuring that critical business operations are not impacted. To save time and resources, NetWorker offers both image-level and file-level recovery of virtual machines with a single backup. NetWorker also leverages Change Block Tracking (CBT), a feature of VADP, to speed incremental backups. With CBT, NetWorker quickly identifies and protects changed virtual machine data.



Auto-discover and visualize VMware environments.

## VMWARE VCENTER INTEGRATION

NetWorker integrates with VMware vCenter™ to deliver greater visibility and flexibility in protection of vSphere environments. By connecting and communicating with vCenter, NetWorker enables auto-discovery of VMware servers and VMs in the environment. New VMs are automatically flagged, enabling administrators to quickly and simply configure backup, ensuring the entire environment is protected. Within the management console, NetWorker displays a map of the VMware topology as it relates to backup, making it easy to recognize the need for adjustments in the backup operation to balance workloads.

## QUALIFICATION WITH VMWARE SOLUTIONS

NetWorker is qualified with VMware tools such as VMotion™, Dynamic Resource Scheduling (DRS), and High Availability (HA) to ensure that there is no interruption of backup service for VMs that have moved from one VMware server to another.

## COMPLETE PROTECTION FOR VMWARE

With NetWorker, businesses and organizations of all sizes can take advantage of a common management interface, maintaining ease of use and flexibility while providing the best of traditional and deduplication VMware backup in one solution. With NetWorker, IT organizations have the tools required to comply with governance regulations, meet service level agreements, and keep their VMware environments running at their full potential.

### CONTACT US

To learn more about how EMC products, services, and solutions help solve your business and IT challenges contact your local representative or authorized reseller—or visit us at [www.EMC.com](http://www.EMC.com)

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