

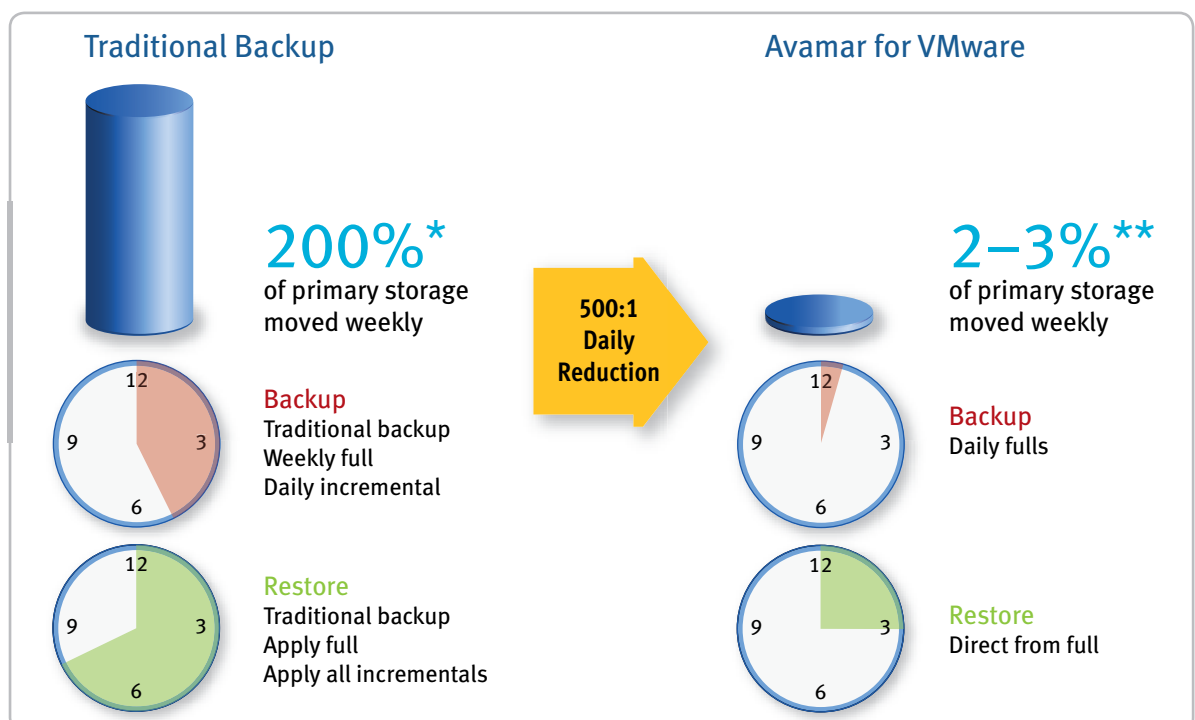
# Accelerating Backups in Your VMware Environment

VMware changes your server, application, and information management infrastructure to gain unprecedented economies and efficiencies. Backup must evolve to deliver even greater efficiencies in your new, highly consolidated environment. EMC and its partners have the technologies, solutions, and expertise to help customers accelerate the backup of their VMware® infrastructure, improve the performance of their production environments, and improve information protection for critical VMware application environments. These technologies and solutions are ideally suited for backing up and archiving virtual server environments.

## Benefits of EMC Backup Solutions for VMware Environments

Leverage the unique global data de-duplication technology of EMC® Avamar® to:

- Reduce physical server backup workloads by 90 percent or more
- Reduce backup times by 90 percent
- Recover content faster from daily full backups
- Reduce the amount of data moved for backup each day by 500:1
- Reduce cumulative backup storage requirement by 50:1
- Support file-level and .vmdk backup and recovery of virtual machines without taxing production system resources



\* With traditional backup solutions, all virtual machines must move weekly full and incremental backups (as much as 200 percent of the primary data).

\*\* With EMC Avamar, the traditional backup load can be reduced to as little as 2 percent weekly.

## Why EMC Backup for VMware Environments

EMC offers a unique solution for customers needing to accelerate the backup and recovery of virtual servers while retaining backups more cost-effectively for longer periods of time. EMC backup solutions for VMware environments are simple, proven, manageable, and offer the following benefits:

- Reduction of the amount of data backed up on a weekly basis through de-duplication
- Significant reduction in time, system resources, and network bandwidth needed to perform full backups
- Mitigate risk by no longer having to manually transport tapes for disaster recovery

By filtering out redundant data segments through de-duplication that starts before data traverses the network or virtual infrastructure, EMC reduces the amount of data moved for backup by up to 500:1. This enables you to replace your weekly full and daily incremental backups with efficient, de-duplicated backups of VMware servers. EMC gives customers a complete solution with hardware, software, and services to handle almost any VMware backup challenge.

### Accelerate backups of your VMware virtual environment with EMC Avamar which provides:

- **Global de-duplication at the source:** Reduce daily backup data by up to 500:1 before data is moved resulting in huge savings in network bandwidth and time needed for backup.
- **VMware Consolidated Backup (VCB) support:** De-duplicate backup of the VCB proxy server for efficient, offhost backup that insulates guest Virtual Machines from the backup load. Avamar integration scripts automate and simplify de-duplicated backup of VCB environments.

### Simplify and centralize your enterprise-wide backup infrastructure with EMC NetWorker® which enables you to:

- **Centralize management for all backup jobs:** Leverage reliable, consistent backup and recovery management for virtual machines from a single, central location.
- **Verify recoverability:** Centralized reporting and diagnostics enable verification that data was backed up successfully daily, and is recoverable in the event that it is needed.



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### Take the next step

To learn more about accelerating backups in your VMware environment, contact your local EMC representative or partner, or visit our website at [www.EMC.com](http://www.EMC.com).