

## EMC Backup and Recovery for VMware

### Consistently apply backup services across your VMware environment

EMC® Backup and Recovery for VMware® centralizes the management of backup applications optimized for your virtualized infrastructure ensuring service-level agreements are met and you are able to deliver a consistent level of backup service across your environment. This EMC Proven™ solution leverages the advanced capabilities of several EMC products to minimize the impact of backups to business processes and applications, ensuring your revenue generating activities can proceed.

#### Business Challenges

Businesses must ensure the protection of their valuable information, but most of the time, this is at the expense of the business process. Applications and information are taken offline while backups execute.

- Time-consuming backup processes monopolize IT resources: Network traffic is heaving as terabytes of information are sent to a central location for backup.
- Difficulty delivering consistently to service-level agreements: Variation in the backup process, including applications, timeframes, and storage, make it difficult to deliver one level of service across the infrastructure.
- Application and information availability: Revenue-generating activities cannot occur as access to application and information is inhibited.

EMC has the experience with VMware environments to help maximize the value of your environment while reducing costs with a virtualized, consolidated environment. EMC Backup and Recovery for VMware ensures your virtualized environment is protected.

#### Solution Description

EMC Backup and Recovery for VMware enables the backup of VMware ESX Servers with minimal impact to network resources and business processes. This solution combines source-based data deduplication with automated, centralized management for disk-based, point-in-time replication in a scalable, cost-effective hardware/software solution. This solution can help streamline administration, reduce the backup footprint, and minimize the impact on physical resources in large virtualized environments.

**EMC Replication Manager** provides an automated, central management console with an easy-to-use, point-and-click interface, pull-down menus, and wizards for efficient, script-less management of EMC array-based replicas for VMware Infrastructure. Replication Manager allows users to assign the ideal mount options to any available ESX Server connected to the SAN.

**EMC SnapView™ Snap**, working together with Replication Manager as a solution, allows the creation of mountable, point-in-time snapshots. This enables parallel access to shared resources with little to no impact to production, eliminating the need to prioritize access and increasing operational efficiency.

**EMC CLARiON®** storage array, working together with Replication Manager and SnapView as a solution, offloads the backup resources from the production ESX Server environment, effectively creating zero backup times. When the backup actually occurs, the data is not changing—it is a hot backup.

**EMC Avamar**® backs up the mount point location to an Avamar Data Store and then uses global, source-based, data deduplication technology to reduce the size of the backup data within and across VMs, dramatically reducing the required backup window, network bandwidth, and backup storage infrastructure.

## Solution Value

EMC Backup and Recovery for VMware simplifies backup processes enabling the effective and consistent support of service-level agreements across your virtualized environment.

- Consistent backup process across the enterprise ensures data is protected.
- Deduplication capabilities minimize the impact to storage, network, and application resources, and therefore, business applications.
- Centralized management enables the consistent delivery of services for better support of service-level agreements.
- Array-based snapshots take the backup off-host, maximizing application availability and eliminating backup-related contention for physical server resources.

## Effectively Support SLAs with a Standard Backup Process

EMC Replication Manager enables you to consistently apply backup processes across the environment. This ensures you are able to more effectively meet your service-level agreements.

## Centralized Management Reduces Costs

With EMC Replication Manager, centralized replica management reduces costs with the consistent application of backup solutions across the environment reducing the impact of human error.

## Ensure Application Availability While Protecting Data

Array-based snapshots remove the impact of backup from the hosts, maximizing application availability and eliminating backup-related contention for physical server resources. This ensures that business processes maintain revenue-generating activities while supporting service-level agreements.

## EMC Global Services

EMC Global Services offers a full range of virtualization strategy, design, implementation, and residency services to help customers accelerate their enterprise virtualization initiatives. As a gold-level VMware Authorized Consultant (VAC), EMC leverages its deep knowledge of enterprise infrastructure, expertise in key application environments, and VMware-integrated solutions to speed customer virtualization deployments in data center and remote office infrastructures and integrate virtualization into enterprise information infrastructure.

## About EMC Proven Solutions

EMC Proven solutions help customers identify and overcome business challenges by reducing risk and time to value of their information infrastructures. EMC leverages its expertise and proven technologies with its strategic relationships with Cisco, Microsoft, Oracle, SAP, and VMware to deliver solutions that support our customers' business and technical requirements. All solutions are rigorously tested and documented with reference architectures and best practices designed to reduce the total cost of ownership of the infrastructure and increase IT efficiency.



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