



LogicsOne™ Operationalize™ Service for Backup on VMware VI3

Backup Operationalize™ Benefits

- ▶ Gain exposure to current backup and recovery best practices, for virtual server environments
- ▶ Accelerate your consideration of EMC technologies, including Avamar, VCB and replication suites, for use in combination with VMware VI3
- ▶ Lower your cost of virtual machine backup, storage and recovery
- ▶ Learn methods for removing the burden of backup from your ESX hosts while raising backup service levels
- ▶ Raise your point-in-time of Disaster Recovery, while lowering data loss
- ▶ Operationalize™ backup and recovery for your VMware VI3 systems environment, with documented process and procedures customized to your environment
- ▶ Simplify backup and recovery, and lower its maintenance burden
- ▶ Speed training for IT and enable lower-cost operations

Optimization of Backup and Recovery Methods in Virtualized Server Environments

Better Options for Data Backup

Adopting VMware server systems offers better options for data backup and recovery than were previously possible. However, learning about those options and deciding how to apply them in a particular environment can be overwhelming. Because of this, most organizations continue to use the same approach to backup and recovery on virtualized servers as they have used on physical systems. The result may be slow backups, overloaded CPUs, slower systems performance on all Virtual Machines on a host, slow and complex recoveries, and higher costs associated with storing backup data.

Stay Ahead with LogicsOne™

LogicsOne™ consultants provide the expertise required to quickly assess your current backup and recovery methods, and suggest immediate solutions for evolving your approach to match your virtual server deployments. Our teams are expert at the specialized requirements for data protection in virtual environments, including use of VMware Consolidated Backup (VCB), virtual disk management, Disaster Recovery requirements, and the appropriate use of data deduplication to lower storage growth and costs.

No matter where you find yourself on the virtualization adoption curve, LogicsOne experts can assist you with accelerated adoption of industry best practices and tools. Your virtualized systems gain in optimized performance, availability, and utilization. Your IT team gains in knowledge, know-how and information required to make better decisions for managing the virtualization environment day-to-day, and into the future.

Reducing the Data Growth Impact

Performing traditional backup of file systems and application files is notorious for creating many extra duplicate copies of the same files and data. For every full backup of the same system, all of the same files are copied and re-copied, and retained on disk and tape at least once and sometimes many times. Often, client systems have many of the same system files and applications data. In this way, backup duplication is magnified many times not only for an individual system but also across similar systems in an environment.

This backup problem is the same for virtual machine systems: traditional backup creates many unnecessary copies of the same files and application data, which wastes the time required to create the backup and the space on disk and tape required to store all of the backup copies. Just changing to a virtual server will not improve the problem. You need to re-assess and redesign your backup approach to eliminate this waste.

LogicsOne offers accelerated adoption of new backup options available only when working with VMware systems, in combination with the best-fit deduplication solutions available for backup:

- ▶ LogicsOne experts work with you to evaluate and enable your adoption of VMware Consolidated Backup (VCB), an approach which among other benefits helps to eliminate the empty space that exists within VMDK files
- ▶ LogicsOne assists your adoption of EMC Avamar, a premier solution for deduplication of duplicate blocks found within and across files
- ▶ LogicsOne experts can show you how the deployment of EMC Avamar alongside your VMware VI3 server environment will save you immediate storage space and time-to-recovery

Reducing Your Cost of Maintaining Backup Software with VCB

VMware VI3 capabilities eliminate your need to deploy backup agents on each virtual machine. Using the VMware Consolidated Backup (VCB) approach, you can capture all of your backups with a single agent running on a network-attached proxy host. This not only lowers your costs, but eliminates the burden of running backup on your VMware server—which raises system performance and end-user productivity.

LogicsOne experts can assist you in selecting better VCB deployment options, including those available directly from EMC. Accelerate your VCB adoption, for immediate cost-savings advantages.

*LogicsOne™ Operationalize™ Service for Backup on VMware VI3***Improving Disaster Recovery**

VMware VI3 capabilities enable you to preserve all of the state information from your running systems for a better level of recovery following a disaster than is possible with physical systems. For many applications, this means the difference between recovering with data preserved from the moment of the disaster and losing data. Data loss occurs using traditional methods, when data is held in memory and is waiting to be written to disk.

LogicsOne experts can show you how to avoid this loss, by taking a new approach to Disaster Recovery which replicates your data offsite and uses VMware VI3 capabilities to capture complete virtual machine data—including the data held in memory—as part of the replication stream. LogicsOne experts can assist you in selecting from the replication options available directly from EMC.

Key Service Activities

- ▶ Our virtualization experts will work with your team on-site, to examine your backup and recovery methods on up to five VMware ESX Server systems and your VirtualCenter management server.
- ▶ Throughout the project, our experts share VMware best practices, operational tips and tricks, management strategies and other relevant information to assist your team in understanding their systems better.
- ▶ You learn best practices for data management on VI3 systems, with a review of EMC Avamar, VCB and replication technologies.
- ▶ LogicsOne consultants work with your team to identify, define and document Operationalize™ best practices for backup and recovery suitable for your VI3 deployment.

Service Scope and Deliverables

This service is offered as a three-day on-site service engagement. You receive a custom Operationalize™ Best Practices for Backup and Recovery manual, with details on backup and recovery methods best suited for your environment.

- ▶ Includes examination of up to five VMware ESX host systems along with your current backup and recovery methods
- ▶ Includes an interactive white board design session for consideration of backup and recovery methods

Service Requirements

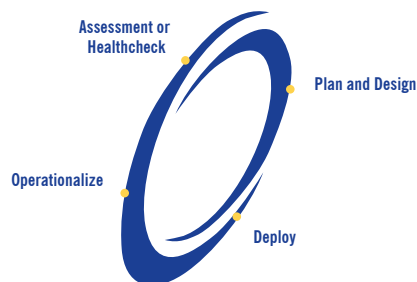
- ▶ This service is intended for organizations considering backup and recovery as part of their VMware VI3 deployment, or who already have deployments from which they need better performance and backup service levels
- ▶ Administrator (root) access to VMware VI3 installations

Why LogicsOne™?

LogicsOne virtualization experts work every day with organizations just like yours, to assess, plan, deploy and optimize Virtualization Infrastructure environments. LogicsOne uses a process of continuous evolution, to help you to accelerate your adoption of virtualized systems, from whatever part of the adoption curve you are at today.

Whether you are just starting out or have had VMware systems in place for years, our action-plans and recommendations will help you evolve your virtualization methods and systems more quickly, with less wasted effort and investment. Our experience in measuring, base-lining and analyzing existing VMware deployments quickly and accurately translates into better results for your virtualization-based business.

LogicsOne is a VMware Gold Authorized Consultant (VAC), which is the highest level of certified consulting capability recognized by VMware. LogicsOne was the recipient of the 2008 Rising Star of the Americas Award from VMware, the IT virtualization leader.

LogicsOne™ Continuous-Evolution Services Cycle

Work with the LogicsOne™ team of virtualization experts to accelerate your adoption of virtualized systems, from whatever part of the adoption curve you are at today. To schedule a LogicsOne consultation or to find out more about our LogicsEvolution™ briefing events, send your email inquiry to LogicsOneServices@logicsone.com

**About LogicsOne™**

Since 2004, LogicsOne has been delivering virtualization professional services to Fortune 500 and SMB clients from its company headquarters in Atlanta, Georgia. With an exclusive focus on virtualization technologies, LogicsOne has developed a field-proven delivery approach that aligns technology to business requirements. Organizations experiencing LogicsOne's continuous-evolution approach to virtualization have realized significant cost-savings advantages, accelerated adoption cycles, and advanced their business and IT objectives.

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