

EMC Consulting Data Protection Services

Understand your backup environment and define operations to optimize it

Ambition Realized—Financial Services Company

- New backup service aligned with value of data provided shorter backup windows, more reliable restores, and consistent performance
- Savings exceeded \$3M

Move your organization in the right direction with EMC® Consulting Data Protection services that set the pace for aligning your operations to meet demanding service levels.

Business challenge

The challenge of protecting your data is changing. Unrestrained data growth, coupled with virtualization at enterprise scale, is affecting the way you need to think about and organize your data protection environment. Data growth rates typically represent a factor of four to 30 times production capacity. Daily, weekly, and monthly—full backups are kept for months or years with no effective archive strategy.

Another set of challenges you face are related to the operational structure of your recovery environment. All too often recovery operations are reactive. They are not flexible enough to handle new computing approaches like private cloud. And they are not optimized to meet changing user SLA expectations.

Service description

EMC Consulting believes that your recovery environment should be designed with the guiding principle that data should only be backed up for three reasons: disaster recovery, operational recovery, or long-term archive. It is critical that you understand why data is being included in a backup set. It is important that you document and test your processes for recovering data in the event of a disaster in mixed physical and virtualized environments. Your processes and tools should automate for operational recovery of data day-to-day. A properly defined recovery environment also leverages next-generation backup and recovery tools to speed private cloud adoption.

EMC Consulting data protection professionals provide services to analyze and improve your data protection strategy. Using our Strategic Observation service, we analyze your environment's service-level requirements. We are then able to define a roadmap and a vision that meets your operational and disaster recovery objectives and enables you to understand why you are backing up data and how backup should be executed.

The Operational Readiness service documents business requirements for your backup and recovery service levels and recommends a corresponding strategy and operations. It provides a roadmap to develop a future-state environment with known service levels and predictable costs. This roadmap also defines a reference architecture that leverages next-generation EMC deduplication technologies such as EMC Avamar® and Data Domain® to streamline backup sets.

Alignment Attributes		Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
Scheme	Specification					
Full Backups	Frequency of Full Backups	Database - Nightly Filesystem Weekly	Database Nightly Filesystem Weekly	Database Weekly Filesystem Weekly	Database Weekly Filesystem Weekly	Database Weekly Filesystem Weekly
Incremental Backups	Frequency of Incremental Backups	Filesystem Nightly	Filesystem Nightly	Database Nightly Filesystem Nightly	N/A	N/A
Database Backups	Type of Database Backup	Cold -DR	Hot	Hot/Cold	Cold	Cold
Database Log Files	Frequency of Log File Backup	<6 Ho				
Database Size	Size Requirements	>1024				
Client Types	Types of Clients	App/Dev Serve				
Onsite Data Retention	Data / Tape Rotation	7 Da				
Offsite Data Retention	Data / Tape Rotation	Varia				
Offsite Location	Location of Offsite Backups	DR S				
Data Security	Security Level of Information	All				

Alignment Attributes		Tier 1	Tier 2	Tier 3	Tier 4
Scheme	Specification				
Performance	Response Time (Variable Measure)	< 1 second	< 1 second	< 1 second	< 24 hours
	Throughput	Up to 300 Mbps	Up to 300 Mbps	Up to 700 Mbps	Up to 280 Mbps
Availability	Maximum Unplanned Downtime per Year	< 5.25 minutes	< 5.25 minutes	< 52.56 minutes	< 175.2 hours
	Retention Period	Up to 30 Years	Up to 30 Years	Up to 10 Years	Up to 3 Years
Retention & Disposition	Data Shredding Compliance	Yes	Yes	No	No
	Read / Annual Access Frequency	< Hourly	< Hourly	< Hourly	Daily
Data Integrity	Guarantee of Authenticity	Yes	Yes	No	No
Offsite Requirement	Archival Recovery Point Objective	< 60 Secs	< 60 Secs	< 28 Hours	< 38 Hours
Archive Software	Archival Type	Policy	Policy	Policy/User	Policy/User
Data Types	Compliance Data	Yes	No	No	No

Sample Service Catalogs for Backup and Archiving

Service value

EMC professionals take a holistic approach to developing a backup and recovery strategy, looking at both your technology and operations. We leverage EMC best practices and consulting experience for protecting data and managing IT services. We determine the technical and operational barriers that prevent you from meeting established service-level agreements and provide a strategy for improvement and growth. Then, we establish a backup strategy that sets the direction for your backup service-level agreements by defining the business case, reference architecture, and financial impact involved in developing cost-effective tiered IT environments.

EMC Consulting

As part of the world's leading developer and provider of information infrastructure technology and solutions, EMC Consulting transforms information into business results. Our consultants bring a unique mix of industry, business, and technology expertise to solve today's toughest challenges. We use field-tested tools, proven methodologies, best practices, and industry standards to minimize risk and optimize time to value in our engagements. We provide a full range of consulting, design, implementation, and support services.



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