Disaster recovery planning for modern disasters

Planning for disaster recovery is a necessity of your job. It requires preparation, management, and testing. We understand it may not be at the top of your 'To Do' list, but if it is done well, it can ensure your business is ready when disaster strikes. The key to successful recovery is to be prepared with a modern data recovery solution you trust.

The challenge of too many data protection tools

With weather events, ransomware, and other outages disrupting your business, recovery time is critical. When time is being measured in minutes and seconds, you require a view across all your data. However, organizations that have multiple data protection tools take longer to recover, have more manual steps, and are prone to errors. Today's recovery plan needs to cover physical and virtual servers, storage arrays, applications, databases, cloud environments, containers, and even big data platforms. Many organizations are replacing multiple tools with a single solution to cover both their daily data management needs as well as addressing full disaster scenarios. For day-to-day activities, a single solution will streamline restore operations, ensure consistent processes, and increase staff efficiency and responsiveness.

96% **of global IT decision makers surveyed had experienced one outage in the past 3 years.[1]**

The growing data availability threat: Ransomware

Your disaster recovery solution needs to be able to restore your business from a wide variety of outages. One of the leading causes of outage today is cybercrime, specifically ransomware. The truth is ransomware isn't new. It has been around in one form or another for decades. Like other technologies, malware and ransomware are evolving with new threat variants coming out all the time. One reason for this is cyber criminals are sharing techniques and base code (off-the-shelf malware) with other criminals – which accelerates the time to market for new and more robust malware.

Ransomware: 4 ways to protect and recover. **Read >**

Multi-tiered replication for cost-effective recovery

A real-world disaster recovery challenge is replicating data to your recovery site. Your organization is creating new data all the time. This new data needs to be replicated off site in case the production site has an outage.

In an ideal world, an enterprise would have 100% of their data replicated to the disaster recovery site in nanoseconds. But given you don't have infinite network capacity, a multi-tiered replication strategy is the most realistic approach. With Commvault Complete™ Backup and Recovery you can create a multi-tiered replication strategy that accommodates the different priorities of data and types of workloads you need to restore.

For example, you can have your tier 1 critical databases updated every few minutes via real-time replication, tier 2 applications replicated every 4 hours via snapshots, and tier 3 web servers replicated every 24 hours via backups. Commvault Complete Backup & Recovery provides this multi-tiered replication capability so that you can protect multiple tiers of applications and databases without spending excess IT budget on network connectivity and storage.

1 LogicMonitor, IT Outage Impact Study: A global analysis of IT downtime and its impact on businesses, 2019 Report.

Disaster recovery costs by Recovery Point Objectives

1 ## Fast RPO DR tier (continuous)

Fast > Real-time replication
Tier 0, 1 Application

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2 ## Medium RPO DR tier (4 hours)

Medium > Snap based
1, 2 Applications

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3 ## Slow RPO DR tier (24 hours)

Slow > Backup/Archives
Tier 3 Applications

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An even more budget friendly disaster recovery implementation is using multiple replication methods such as remote backups, snapshots, deduplicated copies, and real-time replications in parallel. Older disaster recovery solutions force you into using one replication method that requires high-end hardware and network components, adding unnecessary cost. Commvault approaches disaster recovery differently. With a choice of multiple replication methods, you can pick and choose the right replication technology to protect your application groups.

Multi-tiered replication also helps recover from ransomware attacks. For those, you need a scalable method such as controlled snapshots and backup copies to restore your entire environment. If you are only using a continuous replication solution, it will be prohibitively more expensive since it requires more storage to keep all the granular restoration data.

Flexibility to address daily recovery needs as well as full scale disasters

Data center-wide disasters don't happen that often, but you need to recover files or restore entire servers frequently, sometimes on a daily basis. For these recovery scenarios, it is important to be able to manage data and workloads across on-premises and cloud storage locations from a single user interface. Commvault Complete Backup & Recovery provides an easy-to-use administrator console to carry out all functions. It manages all of your data and applications across your environment and geographies.

"You can't really put a price on your data. It's priceless."
Tim Saathoff Network and Infrastructure Administrator | The City of Sparks, Nevada

Reduce IT workloads by automating disaster recovery management

Your disaster recovery solution needs to be easy to maintain and ready when disaster strikes. For both backup and disaster recovery use cases, Commvault Complete Backup & Recovery provides a consistent framework for you to customize disaster recovery plans to your specific needs.

As a single management console, Commvault Command Center™ helps you define what to protect, where to protect, and how to protect your data and applications. When you are already using Commvault for data backup and archiving, no re-training is required to expand your Commvault implementation for disaster recovery.

Commvault recovery plans only need to be setup once. You can implement the protection plan for hypervisors, VMs, databases, clouds, etc. on day one, and it will automatically protect the IT environment going forward. Commvault Complete™ Backup & Recovery gives you automation, orchestration and a repeatable process that requires very little involvement.

When disaster strikes, it's very likely that you won't have all your IT staff available. It's crucial to have a disaster recovery solution that can easily carry out your disaster recovery failover sequence even if your IT administrator is not available. Commvault Complete™ Backup & Recovery provides ways to execute automated disaster recovery for different types of disasters. You can prioritize what is more important for your organization at time of disaster (e.g., update the latest data first versus failover as soon as possible) and execute the recovery with one click.

Disaster recovery for today's real-world outages

Comprehensive disaster recovery of data across on-premises, cloud and virtual environments is critical for your business.

Select a real-world disaster recovery solution that covers your needs by:

• Protecting you from various outage types: weather events, ransomware, and other outages
• Providing flexible disaster recovery options to meet your changing infrastructure needs
• Automating and carrying out various recovery tasks, not only disaster recovery
• Supporting a wide array of disaster recovery architecture options so that you can balance cost versus performance
• Providing an easy-to-use and intuitive management console
• Streamlining recovery operations when disaster strikes

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Customer Champions
The City of Sparks, Nevada

"We're ready for the future. We don't know what's coming next, but we feel comfortable knowing that we, as the city [Sparks, NV], are ready to move in that direction and to recover data if we need to."

Steve Davidek Information Technology Manager
The City of Sparks, Nevada

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Choosing the right disaster recovery solution can be the difference between keeping the organizations' lights on or going dark during an emergency. With Commvault Complete Backup & Recovery you will be a superhero; ready to protect and recover from today's real-world outages at a moment's notice.

Learn more about comprehensive disaster recovery on-premises or in the cloud. Visit **commvault.com/disaster-recovery >**

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