COMMVAULT®

# Disaster Recovery Planning for Today's Real World Outages

Automating disaster recovery and disaster recovery testing saves time and budget, plus reduces risk when there is an actual emergency. With weather events, ransomware, and other outages disrupting your business, you need a modern disaster recovery solution that really works at time of disaster. Choosing the right disaster recovery solution can be the difference between keeping your business up and running or going dark during an emergency. Learn how the Commvault platform for data management provides availability for your business against today's real world outages.

Organizations who have separate tools for on-premises backup and recovery, cloud backup and recovery or disaster recovery are having trouble keeping up with today's business needs. Today's recovery plan needs to cover physical servers, storage arrays, hypervisors, applications, databases, cloud environments, containers, and even big data platforms. Many are replacing multiple tools with one comprehensive platform that can cover both daily data management as well as full disaster scenarios.

Commvault has full hybrid cloud disaster recovery data management support — on-premises and in the cloud — automated and accessible for IT professionals. Commvault provides industry leading enterprise data protection for enterprises and midsized organizations.

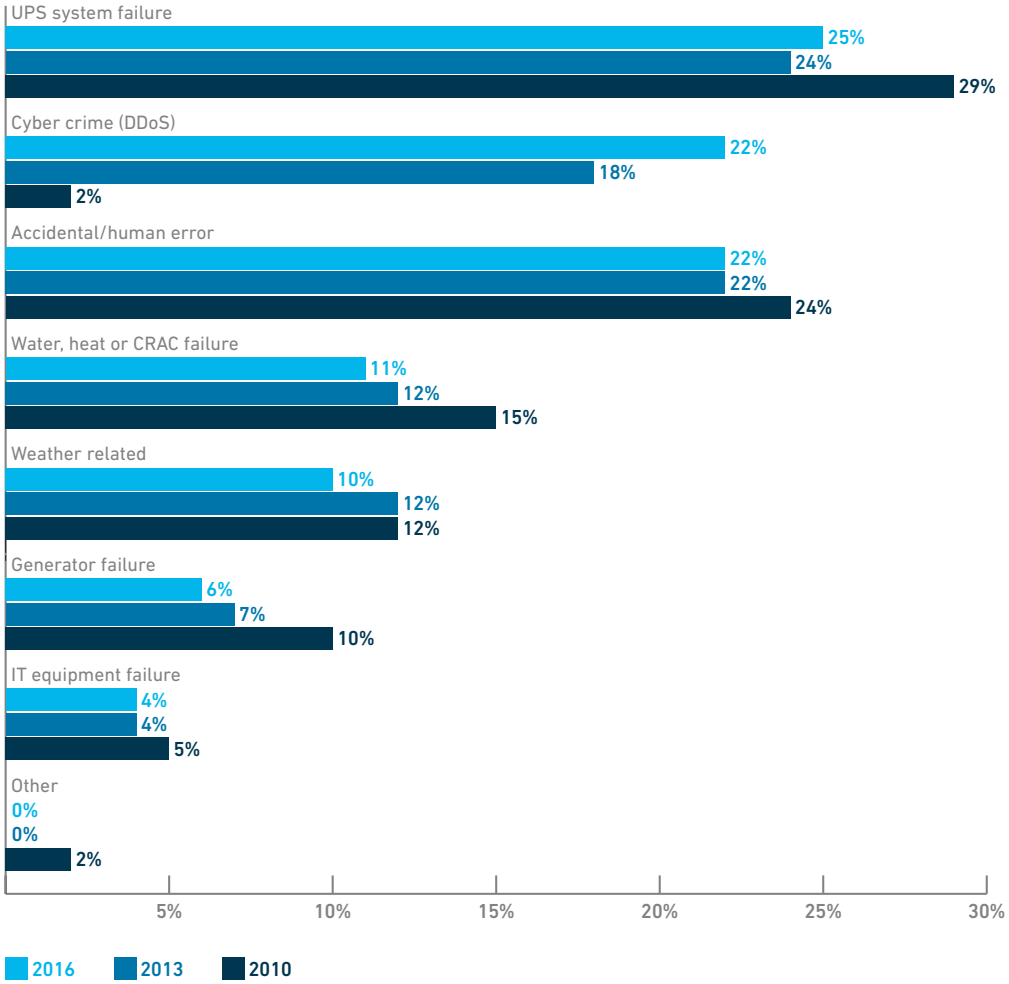
## RANSOMWARE: RECOVERY FOR ENDPOINTS AND SERVERS

Your disaster recovery solution needs to be able to truly restore your business from a wide variety of major types of outages. Disasters today are more than just weather related incidents.

One of the leading causes of outage today is cybercrime. To recover from these types of attacks, **you need to recover both the servers and the endpoints** such as desktops and laptops.

The Commvault Data Platform helps you harden the environment, detect attacks and recover the servers and endpoints from ransomware and other cyberattacks. When an organization experiences a ransomware attack, full disaster recovery across servers and endpoints is essential.

### Costs of a Disaster Recovery Outage




*SOURCE: Ponemon Institute, Cost of DR Outage 2016*

# MULTI-TIERED REPLICATION FOR COMPLEX ORGANIZATIONS

Another real world disaster recovery challenge is replicating data. Your IT environment has a lot of servers creating new data all the time. All of that new data needs to be replicated to the disaster recovery site in case the production data center has an outage.

In an ideal world, an enterprise would have 100% of the latest data replicated to the disaster recovery site in nanoseconds. But given how you don't have an infinite capacity network link to the disaster recovery site, a **multi-tiered replication strategy** is the most realistic solution to use. The Commvault Data Platform can help you create a multi-tiered replication strategy that accommodates the different levels of data and workloads you need to restore.

For example, you can have your tier 3 web servers replicated every 24 hours via backups, tier 2 applications replicated every 4 hours via snapshots and the tier 1 critical databases updated every few minutes via real-time replication. The Commvault Data Platform 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.

Multi-tiered replication also helps with recovery from ransomware attacks. For those, you will 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 expensive to recover a large environment as it will require a huge amount of storage to keep all that granular restoration data.

**Beyond a Backup Target – Using Cloud Effectively for Disaster Recovery**

Learn how Commvault can help you use data in the cloud for backup, disaster recovery and beyond.

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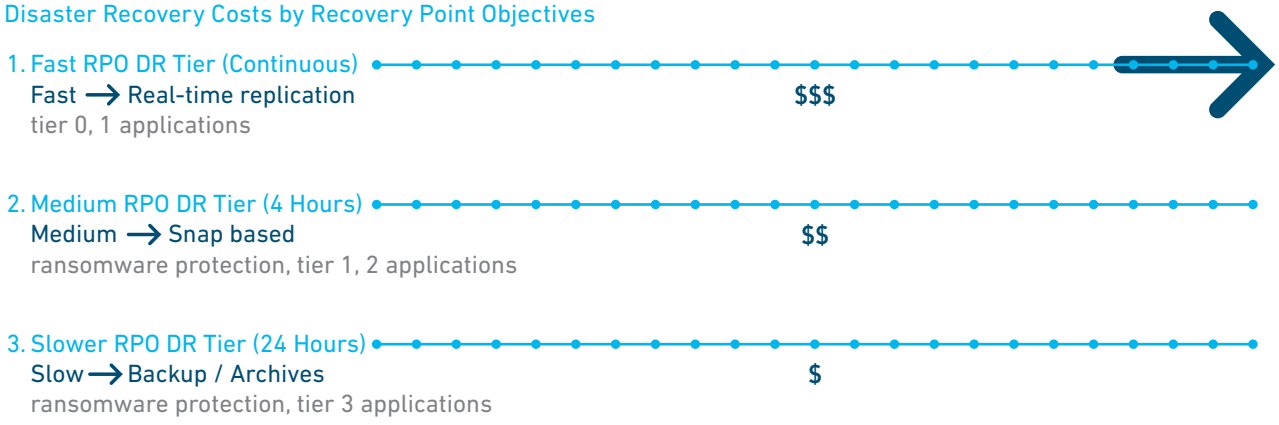
Disaster Recovery Costs by Recovery Point Objectives



## 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. For these various recovery scenarios, it is important to be able to manage data and workloads across on-premises and cloud storage locations from one streamlined control center. The Commvault Data Platform provides capabilities for archive, backup and disaster recovery all from one comprehensive platform. This empowers you with one familiar tool to carry out recovery, whether it's searching for a 7-year-old medical image, getting a local server back up and running after a hacking incident, or carrying out a full-scale disaster recovery failover. The Commvault Data Platform gives you flexibility and control for each scenario.


## BUDGET MINDED DISASTER RECOVERY

When researching disaster recovery solutions, cost becomes a big factor. Should you build a secondary data center or use the cloud? Cloud will likely cut overall disaster recovery costs, but what about your existing on-premises applications that aren't yet migrated, or cannot be migrated to the cloud?

Because every company has different needs, the Commvault solution supports a wide variety of physical, virtual, and cloud platforms plus different replication methods. Commvault gives you flexibility so that you can setup a disaster recovery architecture that is optimal for your IT environment.

For example, an organization can create a hybrid disaster recovery strategy. Choose public cloud as a low-cost, tier 2 disaster recovery target for semi-critical applications, but deploy high-end disaster recovery servers at a dedicated disaster recovery data center for mission critical applications. With this flexibility, the Commvault Data Platform lets you design a disaster recovery strategy that works with your business needs and your IT budget.

For even more budget friendly disaster recovery implementations, you should use 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 that are all included in one solution, so that you can pick and choose the right replication technology for the different tiers of application groups that you have to protect.

If you cannot allocate resources to manage a disaster recovery plan, **Commvault service provider partners** can help you to carry out your disaster recovery operations.

## REDUCE IT WORKLOAD BY AUTOMATING DISASTER RECOVERY MANAGEMENT

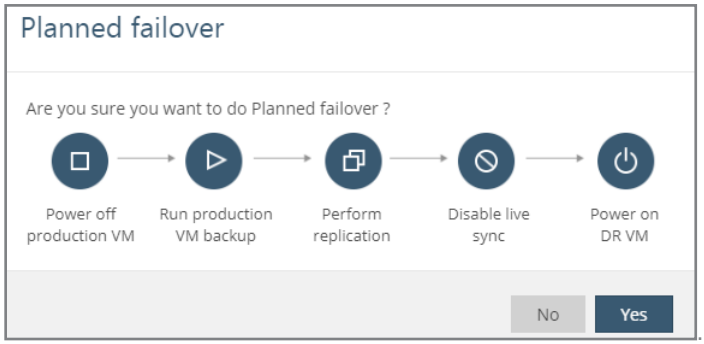
Your disaster recovery solution needs to be easy to maintain and must work when disaster strikes. For both backup and disaster recovery use cases, the Commvault Data Platform gives you a consistent framework to create company specific disaster recovery plans for different business needs.

The Commvault Data Platform helps you to define what to protect, where to protect it, and how to protect. When you are already using Commvault for data backup and archiving, no extensive re-training is required when expanding your Commvault implementation for disaster recovery.

Since Commvault Data Platform recovery plans only need to be setup once, you can set up the protection plan for hypervisors, VMs, databases, clouds, etc. on day one, and let that plan protect the IT environment going forward. The Commvault Data Platform gives you automation, orchestration and a repeatable process that means very low operational workload.

When disaster actually strikes, it's very likely that you won't have all your IT teams available. It's crucial to have a disaster recovery solution that can carry out your disaster recovery failover sequence even if your IT administrator is not available.

The Commvault Data Platform provides ways to execute automated disaster recovery actions for different types of disasters so that you can prioritize what is more important for your business at time of disaster (e.g. update the latest data first versus failover as soon as possible) and execute the failover with one click




**Win the War Against Ransomware**

In fact, nearly 50% of organizations have suffered at least one ransomware attack in the past 12 months and estimates predict this will continue to increase at an exponential rate.

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## 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:

- helps protect you from various outage types
- gives you flexible disaster recovery options to meet your changing infrastructure needs
- can carry out various recovery tasks, not only disaster recovery
- provides a wide array of disaster recovery architecture options so that you can balance cost versus performance
- requires no extensive training
- can actually carry out recovery operations when disaster strikes

The Commvault Data Platform supports a variety of physical servers, storage arrays, hypervisors, applications, databases, cloud environments, containers, and even big data platforms. This comprehensive support helps you protect your evolving environment.

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



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