



# ▶ How to Realistically Improve Your Recoverability with Commvault

## KEEP YOUR BUSINESS RUNNING WITH FASTER AND MORE EFFICIENT RECOVERY

Your goal is high availability for the applications, databases, virtual machines (VMs), servers, and data that run your business. When access is lost or interrupted, recovery speed is critical, and must be measured in minutes and seconds, not hours or days. And if your backup and recovery strategy includes point solutions with limited coverage, legacy approaches that don't support today's modern technologies, or manual processes that are time-consuming and complex, you may not be ready when disaster strikes.

The truth is, many disaster recovery and data protection solutions will claim to provide sufficient recovery capabilities to get you quickly up and running after an outage. But which of these solutions can really protect and restore your business workloads when actual disaster strikes?



With more than 2 decades of data management experience, Commvault has continually enhanced its backup and recovery solution to meet constantly evolving real world customer requirements. Commvault® software allows you to streamline and automate the development and testing of actual disaster recovery scenarios with reduced cost, effort and risk. From a single, intuitive web-based interface, you can easily manage all of your disaster recovery needs, both on-premises and in the cloud.

Commvault's support for disaster recovery is flexible enough to include physical servers, storage arrays, hypervisors, applications, databases, cloud environments, and even big data platforms. With Commvault, you can even perform recovery across all of your cloud providers.

Wherever your workloads need to move – to the cloud, from the cloud, across clouds, or back to the data center – Commvault software gives you the flexibility to make the right recovery choices for your organization.

## ▶ RECOVERY ACROSS ENDPOINTS AND SERVERS

After power failures, cyberattacks have become the second leading cause of IT outages. Cyberattacks such as ransomware target both your servers and your endpoints: laptops, mobile devices, and even BYOD. Commvault software automatically detects unusual file activity, helping to mitigate the risk of an attack, and uses a multi-layered approach to enable rapid recovery of your environment.

While some legacy disaster recovery solutions are limited to recovering either endpoints or servers, Commvault understands that you need a comprehensive recovery solution. And only Commvault software provides recovery for endpoints, servers and applications, all from the same interface. With Commvault, your environment is protected with a multi-pronged approach:

### MITIGATE RISK

- Harden access to the Commvault database and disk library
- Use selective encryption of files and folders, to prevent unauthorized access
- Monitor and block disk mount path, to prevent suspicious writes

### DETECT ANOMALIES

- Monitor and alert to unusual file changes to detect ransomware
- Deploy decoy “honeypot” files to trap ransomware and generate alerts
- Flag processes that are abnormal (i.e. too many reads)

### PROTECT

- Archive your data and restore inactive data, databases, and VMs as needed, from low-cost disk storage
- Backup your data wherever it resides; endpoints, physical, virtual, databases, SaaS and cloud
- Perform disaster recovery with an automated failover solution for site-wide disasters, and use cloud or multiple replication options for greater cost effectiveness

## 5 Steps to Application-Aware Data Protection

Application owners need to know that they'll be able to recover their data at the application level when disaster strikes.

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## RECOVER

- Recover using protected backup files (encrypted, on-premises, cloud, SaaS)
- Enable self-service, point-in-time recovery restoration
- Restore endpoints (i.e. laptops, servers, and applications)

## ► RECOVERY FOR THE REAL WORLD

What features will *you* actually use to protect your IT environment on a daily basis? What features will be needed to recover from an actual disaster? There are lots of solutions out there, but *your* recovery requirements must accommodate *your* unique infrastructure, processes, and budget. Instead of locking you into a single, restrictive method, Commvault provides options so that you can have the appropriate amount of protection, and at a cost that fits your budget.

### MULTIPLE REPLICATION AND RECOVERY OPTIONS

With Commvault, you can allocate the appropriate disaster recovery service level agreement (SLA) and recovery time and point objectives (RTOs/RPOs) to the various application and database tiers in your data center. This allows you to properly align recovery cost to the business value of each tier.

**Live Sync Direct:** Restore quickly (RTO of ~15 minutes) using disaster-ready virtual machine images on the disaster recovery side, or snapshot images.

**Live Sync (Array-Based):** Backup and replicate the storage hardware snapshot to the disaster recovery site and restore quickly using disaster-ready images.

**Live Sync:** Backup and replicate the data to the disaster recovery site and restore quickly using disaster-ready images.

**Remote Backups:** Move full backup copies to the disaster recovery site, helping ensure faster restores. Use as low-cost disaster recovery for tier 2 or 3 applications.

**DASH (Deduplication Accelerated Streaming Hash) Copy:** Deduplicate and move data to the disaster recovery site, to reduce storage costs for tier 2 or 3 applications.

**Remote Archives:** Segregate and encrypt archives that can be used as a low-cost data protection solution for ransomware recovery.

### BROAD PLATFORM PROTECTION\*

Commvault supports complex environments for your archive, backup and disaster recovery scenarios with industry-leading integration\* including:

**Cloud and SaaS Support:** AWS, Azure, Oracle, Office365, Salesforce, Google Mail, Google Drive, Microsoft OneDrive, and additional cloud storage options, along with Amazon S3-compatible object-based storage options and OpenStack Object Storage vendors

**Hypervisor Support:** VMware, Microsoft Hyper-V, Citrix XenServer, OpenStack, RedHat, Oracle, and more

**Applications, File Systems and Databases:** supports more than 24 applications, file systems and databases

**Snapshot Management Support:** 30 snapshot engines including Dell EMC, IBM, Hitachi Vantara, HPE, Huawei, NEC, NetApp, Nutanix, and Pure Storage

\* <https://www.commvault.com/commvault-supported-technologies>

## ▶ SIMPLIFIED, AUTOMATED RECOVERY OPERATIONS

At the time of a disaster, or during disaster recovery tests, many interconnected activities need to happen, in order to successfully execute the disaster recovery failover process. And since you will not likely have all your team members available at the time of an unexpected disaster, a simplified and automated approach to recovery is essential.

Commvault software provides these simplified recovery operations, and goes one step further by giving you options so you can prioritize recovery of what you *really* need, in the event of a disaster.

### RECOVER WHAT YOU REALLY NEED AT THE TIME OF A DISASTER

Commvault software provides simplified, automated recovery operation to meet your recovery time objectives:

**Planned Failover:** Helps ensure that you have the latest data regardless of when a disaster strikes.

**Unplanned Failover:** Use when failover speed (i.e. RTO) is a priority during unexpected disasters.

**Live Recovery:** Use when virtual machines need to be up and running quickly. Can also be used to validate a backup, to ensure that it is disaster recovery-ready.

**Live Browse:** Browse, download and upload files and folders from the backup data, snapshots, PST files, cloud data, and non-backup data. Can access data from the web and mobile devices.

**Live Mount:** Use to run a virtual machine directly from backup and access the data in the virtual machine without restoring the guest files. It can also validate disaster recovery readiness, along with the content inside a virtual machine.

**Failback:** Return to the original production or new production site and ensure that the most recent data is updated.

**Failover Groups:** Setup and monitor disaster recovery operations for a group of virtual machines. Live Sync replication, planned failover, unplanned failover, failback, test boot operations can be conducted.

**Workflow:** Create personalized procedures that can be executed with one click. The Commvault personalization team can help create these personalized workflows or you can download sample workflows and create workflows on their own. Complicated procedures can be carried out easily at time of disaster by using the workflow.

### Ransomware 4 Ways To Protect and Recover

To maintain access to your critical data, consider these four best practices to protect and recover from ransomware attacks with confidence.

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## ENSURE YOUR DISASTER RECOVERY PROCESS WILL BE SUCCESSFUL

Commvault software provides a number of disaster recovery test and readiness validation features, to ensure that your data is safe and to help you prepare for a recovery:

**Test Boot Virtual Machine:** Quickly test your disaster recovery setup and processes.

**Virtual Labs and Dev-Test:** Use for disaster recovery testing, or to test a group of virtual machines from backup or replication jobs.

**Live Mount, Live Browse, Live Recovery:** Validate the virtual machine and its data, quickly and easily.

## KNOW WHAT IS GOING ON THROUGHOUT YOUR ENTIRE PROTECTED ENVIRONMENT

Commvault's intuitive user interface simplifies backup and recovery, for servers, virtual machines, cloud, applications or endpoint devices. With this single solution you can quickly identify, move, manage, and recover data across your entire environment regardless of location, application or storage type.

Commvault software supports a variety of physical servers, storage arrays, hypervisors, applications, databases, cloud environments, and even big data platforms to help you protect your evolving environment. It delivers a simple, cost-effective, and modern solution that safely protects data wherever it lives and quickly restores it anywhere.

▶ Learn more about comprehensive disaster recovery on-premises and in the cloud. Visit [commvault.com/disaster-recovery](https://commvault.com/disaster-recovery).

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