



Can Your Cyber Resilience Do This?

Six Ways Your Data Security Provider May Be Letting You Down.

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CHAPTER 1

OK, LET'S START WITH THE OBVIOUS.

You've got data, applications, and infrastructure all over the place – in private clouds, public clouds, in SaaS, on-premises, at the edge, and spread across your organization. And you're worried about it. Because your business is under threat like never before.

Downloading this ebook was an important first step in making sure your approach to cyber resilience is up to the challenge of safeguarding your business. Of course, most vendors will tell you exactly what you want to hear: that all your data is covered, protected, and ready to be restored. That makes it hard to tell one vendor from the next.

We've put together this ebook to arm you with the right questions to ask when evaluating any data security vendor, even the one you have now. Time is money, so let's dive in.

CAN IT BRING BACK YOUR BUSINESS 10x FASTER?

VENDORS LIKE RUBRIK, COHESITY, AND VEEAM CAN'T AUTOMATICALLY REBUILD YOUR CLOUD APPS.

They may offer some application data recovery and limited metadata recovery, but rebuilding cloud applications and infrastructure must be done entirely outside of these systems with manual scripting.

THE BOTTOM LINE

Commvault can. Only Commvault can restore distributed cloud applications and cloud services, bringing back your business in a fraction of the time of other data management vendors.

WHY IT MATTERS

Recovering clean data is only part of the battle after a cyberattack. You need to bring back the minimal viable applications, business communications, and authentication services at the core of your operation before you can get back to business. For cloud-based apps, this means recovering the underlying infrastructure as well as the application code itself.

Most data security vendors can restore your data, but without applications and infrastructure, your customers will still be unable to access your business and be left waiting.

HOW IT WORKS

In a cloud world, where everything is code and configuration, you can do powerful things that are either really hard or nearly impossible in a traditionally packaged world. Traditional approaches to data protection limit themselves to the application data alone. With Commvault, you can discover cloud resources, capture configurations and dependencies, and treat those configs and dependencies like data – protecting it and making it recoverable.

A cyber resilience platform will automatically rebuild full cloud applications, infrastructure, and data stacks – including networking, DNS, compute, and infrastructure dependencies to get you back in business fast. Only Commvault does this and makes it all recoverable. The result is that recovery automation rebuilds everything: application configurations, infrastructure dependencies, data, and even state for a super-fast and comprehensive recovery/restoration. This can be done on AWS, Google, and Azure.

BETTER RTO AND RPO

“The integration of Cloud Rewind into Commvault Cloud enhances data management by covering every step of a data breach – protection, recovery, and rebuilding. Additionally, we can achieve better RTO and RPO to meet our business needs without requiring a parallel hot standby IT infrastructure and with minimal manual effort.”

VENKATA SUDHAKAR NAGANDLA

SVP & Global Head - IT Infrastructure & Cloud,
Allcargo Group Companies

Decreased recovery time by

276x

Decreased backup, recovery,
and disaster recovery cost by

50%

SOURCE: MULTINATIONAL HEALTHCARE CORPORATION
CUSTOMER STORY

CAN IT RECOVER ALL YOUR WORKLOADS, INCLUDING THOSE IN THE CLOUD?

RUBRIK, COHESITY, AND VEEAM WON'T.

They don't offer capabilities to discover, map dependencies, and protect cloud resources and their configurations.

THE BOTTOM LINE

Commvault will. Only Commvault offers automated cloud-native resource discovery, dependency mapping, and configuration protection across all major clouds, lowering the risk of unknown cloud resource use, and exponentially accelerating your recovery.

WHY IT MATTERS

Like most organizations, you probably rely on hundreds, if not thousands of cloud resources, serverless and containerized compute, AI services, virtual networking, and more. But you can't recover any of it if you don't know where it is. That's why continuous discovery is essential.

Automated discovery and mapping of cloud resources are vital for securing and maintaining the resilience of dynamic, auto-scaled environments. These environments change rapidly, making manual methods inadequate. With continuous discovery, all cloud resources – virtual machines, databases, networks, and more – can be identified and protected, enabling rapid and accurate recovery from failures or cyberattacks. Automation helps keep dependency mappings up to date, reduces human error, and helps protect all relevant resources as the environment evolves.

HOW IT WORKS

Without installing any agents, Commvault automatically traverses your clouds (AWS, Azure, Google) discovering cloud resources used across your estate. It gathers, in part, configuration data, the state and protection status of each resource by taking snapshots or backing up data for each resource, and dependencies on other cloud resources – for example, if it's part of a VPC, a step function, and even a full application stack. The result is a clear map of how these resources are assembled, making it easy to automatically recover and rebuild the entire cloud assembly, including state.

HELPING SAFEGUARD FROM RANSOM DEMANDS

"With Cloud Rewind, we have successfully recovered from a major cyberattack. Without Cloud Rewind support, it would have been a huge loss to our business besides paying the ransom as well unknown damage to the company's reputation."

CIO, EDISCOVERY LEADER

BETTER THAN NATIVE CAPABILITIES

"Cloud Rewind stood out among four different vendors, including AWS's native DR service, across four different categories."

TOP MORTGAGE LENDER

CAN IT RECOVER AI WORKLOADS AT SCALE?

RUBRIK, COHESITY, AND VEEAM ARE UNDER-ARCHITECTS.

All three use linear scaling, which works well in a POC and limited recovery scenarios but is slow and expensive at cloud scale.

THE BOTTOM LINE

Commvault over-achieves as the only platform offering automated, hyperscale recovery capabilities across the entire platform using its patented recovery-as-code technology. From leveraging serverless functions for restoring billions of objects in cloud datastores to using containerized microservices to bring cloud-like speed and scale to on-prem recovery, Commvault helps provide a reliable, rapid recovery at scale.

WHY IT MATTERS

Modern business recovery demands cloud-native approaches – microservices parallelism and serverless architecture – to restore operations at massive scale quickly and reliably. Without these techniques, organizations face complex processes that lead to costly downtime.

The expansive, dynamic nature of cloud environments demands the ability to perform cloud-scale recovery – harnessing the inherent scalability and flexibility of cloud infrastructure to enable rapid, easy recovery from cyber incidents like ransomware attacks. This approach transcends the traditional limitations of recovery, minimizing downtime and financial impact, while maintaining continuous business.

HOW IT WORKS

Appliance-based competitors architect their solutions in a single package, so scaling means buying the whole thing again and again. Commvault's microservices architecture separates the layers, allowing customers to upgrade only the pieces necessary (computer, storage, et al) to match the scale needed.

Commvault's Clumio® technology delivers scale on steroids, with high throughput and low latency, allowing it to scale exceptionally fast. It uses serverless (AWS Lambda) functionality to deliver at a scale that makes it possible to recover tens of billions of objects in AWS S3 faster than any other offering – including AWS's own native capabilities.



RAPID RECOVERY FOR KEY PLATFORMS

“We were looking for an offering that could protect the many key platforms deployed across our environment, and Cohesity couldn’t check either of those boxes. Commvault’s modern approach to data management was able to deliver on both plus provide the recovery speed demanded by our customers.”

GILMAN TREANTOS

Administrator, IT – Backup/Storage, Blue Cross
& Blue Shield of South Carolina

BOOSTING DATA RESILIENCE WHILE ALSO CUTTING COSTS

“With a long retention strategy, our cloud storage costs were accelerating quickly. Commvault Cloud gave us a way to dramatically lower those costs and keep them predictable, while simultaneously providing us with the data resilience needed to keep our business running.”

JACOB GSOEDL

CIO, Power Integrations

CAN IT MAKE LIGHT WORK OF MASSIVE RECOVERIES?

RUBRIK, COHESITY, AND VEEAM LIMIT YOU.

They support backing up Amazon S3, but only with linear scaling architectures, which makes recovering massive AI datasets untenable and impractical.

THE BOTTOM LINE

Commvault offers the broadest workload coverage, including emerging workloads for AI and cloud stacks. Only Commvault protects emerging workloads in Amazon S3, making it possible to recover more than 50 billion objects accurately, reliably, and faster than anything else.

WHY IT MATTERS

The underlying data used in training machine learning models are typically stored in data lakes. The data lake also serves as source data for customer portals, support dashboards, development projects, and such. Naturally, as AI and LLMs proliferate, it's never been more important to verify that your data lake is protected at the source level.

Emerging cloud workloads, like AI data, require you to recover billions of objects in stores like Amazon S3 and S3-based data lakes (e.g., Delta Lake, LakeFormation, Iceberg), and confirm they are properly restored and correlated to a previous point in time.

While the infrastructure behind S3 is supremely resilient, the resident data is your responsibility. This includes the resilience, uptime, availability, and integrity of all the data in your data lake. And that means discovering important data in your data lake and backing it up.

HOW IT WORKS

Only Commvault's architecture separates the application from the data layer and storage location, allowing it to support a vast array of workloads, regardless of where they live. That includes the ability to backup workloads in one location and recover to any other location for extreme portability and flexibility.

In the case of AI, data is stored differently from traditional data structures. Rather than storing discrete facts in labeled containers, LLMs represent information as patterns in a high-dimensional mathematical space. To make use of this, LLMs use embedding to convert words, phrases, and other data into numerical vectors in a high-dimensional space, making it a unique data type to protect. Commvault does this through Clumio and other means.

MINIMIZE CUSTOMER DISRUPTION

"Clumio's Instant Access is an important innovation, providing immediate access to our data that minimizes disruption to our customers."

MARK SEITTER

Senior Consulting Software Engineer, LexisNexis

TACKLING DATA RESILIENCY

"Clumio's game-changing approach to cloud data backup and recovery has been instrumental in tackling some of our biggest data resiliency challenges."

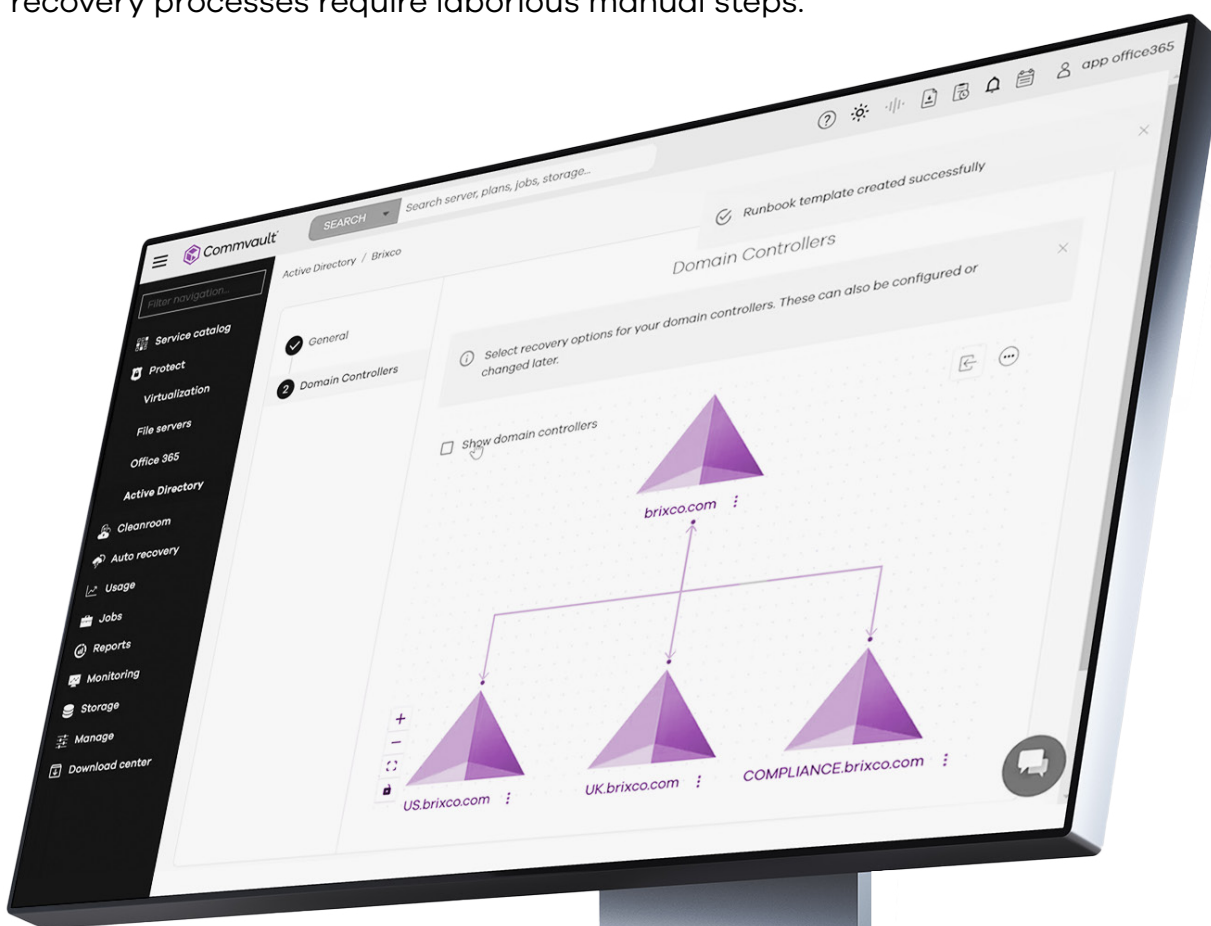
ANDREW JACKSON

Senior Engineer, Atlassian

CAN IT RECOVER FOREST-LEVEL ACTIVE DIRECTORY DOMAINS IN MINUTES?

RUBRIK, COHESITY, AND VEEAM MIGHT ... EVENTUALLY.

Other vendors support Active Directory backups, but their recovery processes require laborious manual steps.



THE BOTTOM LINE

Commvault does. Only Commvault offers automated, forest-level recovery of AD that includes the auto-generation of custom runbooks and point-and-click simplicity to recover complex AD environments in minutes, rather than weeks.

WHY IT MATTERS

AD is the center of secure authentication and services, and a critical part of any recovery. Applications, file systems, email services, and databases all rely on AD for proper authentication and secure user access control. So, when AD is damaged or taken completely offline, the critical applications and services it supports become inaccessible.

Recovering access through AD is your first critical step, yet even Microsoft says it can take “days or even weeks.” This leaves people needing to access your systems – as in customers, medical patients, educators, citizens applying for permits – locked out and shut down. And it prevents your ability to restore a minimally viable state of business operations.

HOW IT WORKS

Microsoft’s Forest Recovery guide prescribes a manual process requiring, at minimum, 50 steps, each of which must be executed and tested before moving on to the next. But, given the scale and complexity of an AD infrastructure with multiple domains, it could easily balloon to 100 steps or more – with each step requiring meticulous tracking, testing, and validation. Commvault automates this process to cut your recovery time down from several days to a few hours.



RANSOMWARE MEETS ITS MATCH

Bilthoven Biologicals suffered a ransomware attack that knocked out its AD environment. It was able to recover it on Day 2.

SOURCE: **BILTHOVEN CUSTOMER STORY**

LESS COMPLEXITY, LESS WORRY

“With Commvault, it’s just one platform. I don’t have to go to a different interface to manage storage, schedules, or securities. Removing that complexity brings a whole lot of cost reduction for us.”

ROBERT WELSFORD

IT Manager, Morrison Hershfield

CAN IT KEEP YOUR DATA IMMUTABLE, INDELIBLE, AND PORTABLE?

RUBRIK, COHESITY, AND VEEAM ARE ONE-CLOUD PONIES.

They claim to have air-gapped, immutable storage, but none have multiple cloud destinations. That forces you to choose to recover to a specific cloud – or face slow recovery times and higher costs as you move data from one cloud to another.

THE BOTTOM LINE

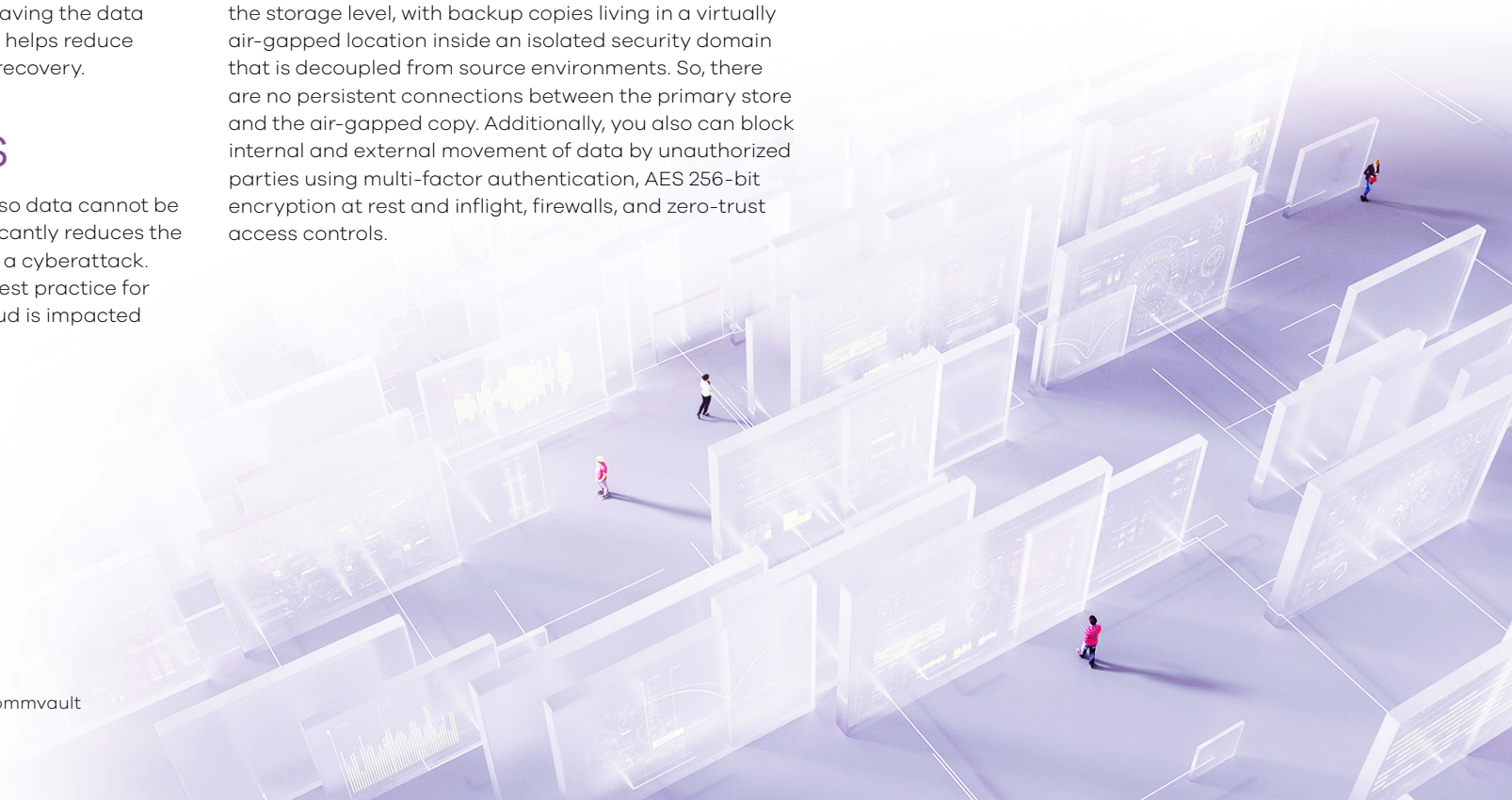
Commvault delivers. Only Commvault supports air-gapped, immutable storage across all major hyperscalers. Air Gap Protect from Commvault is also integrated with Cleanroom™ Recovery to give you a separate recovery environment free from malware. Plus, having the data adjacent to your recovery environment helps reduce egress fees and accelerates scalable recovery.

WHY IT MATTERS

Creating a “gap” between the systems so data cannot be maliciously accessed or deleted, significantly reduces the risk of the data being destroyed during a cyberattack. Extending that to multiple clouds is a best practice for cyber resilience when your primary cloud is impacted by an outage or attack.

HOW IT WORKS

Commvault allows you to automatically save a single immutable and indelible backup copy in more than one virtually air-gapped cloud location. This includes on-premises backups as well. All backup data is protected at the storage level, with backup copies living in a virtually air-gapped location inside an isolated security domain that is decoupled from source environments. So, there are no persistent connections between the primary store and the air-gapped copy. Additionally, you also can block internal and external movement of data by unauthorized parties using multi-factor authentication, AES 256-bit encryption at rest and in flight, firewalls, and zero-trust access controls.





MEET CLOUD RISK WITH IMMUTABLE DATA

"A cyberattack is our No. 1 corporate risk. Our cloud partners are not going to protect us from malicious intent like ransomware attacks. The ability to protect those workloads with immutable copies in Commvault is very much part of our cyber response plan."

CRAIG DUNDAS

ICT Operations Manager,
Scottish Fire and Rescue Service

SEAMLESS DATA MANAGEMENT AND RECOVERY

"With Commvault and Commvault Cloud Air Gap Protect, we can easily manage, protect, and recover data in the cloud and on-premises, even in the worst-case scenario."

PAUL VRIES

IT Consultant, Bilthoven Biologicals

WHAT TO LOOK FOR

Now that you have the questions, here are a few of the answers you really want to hear.

WE COVER THE MOST WORKLOADS TO ELIMINATE GAPS IN DATA PROTECTION AND MONITORING.

Commvault supports the broadest spectrum of data platforms, workloads, and cloud-native applications. This gives you the peace of mind that comes with knowing that, wherever and however your data lives, Commvault delivers consistent and integrated protection.



OUR SECURITY IS BUILT IN AND PROVIDES EARLY WARNING OF POTENTIAL THREATS TO PRODUCTION DATA.

Commvault's core data security features are engineered right into our code and not reliant on any third-party apps. It's a layered approach to threat detection that looks beyond your backups to actively monitor live data. So, you get earlier warnings of potential threats and the ability to quickly respond and mitigate any impact.

YOU HAVE THE FLEXIBILITY TO CONTROL YOUR COVERAGE AND LOWER TCO.

With Commvault® Cloud, you can build and scale your environment with a mix of appliance, reference architecture, virtual, cloud, and even SaaS to best fit your evolving business needs. But features like global deduplication, dynamic provisioning, and power management help you reduce your infrastructure costs on-premises and in the cloud. We're the only company that can do this.



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