

SOLUTION BRIEF

# Cyber Resilience and Ransomware Defense with Commvault and AWS.

## INTRODUCTION

The proliferation of ransomware and cyberattacks has become an ever-present threat to individuals, organizations, and even nations. As the digital landscape evolves, so too do the tactics employed by malicious actors seeking to exploit vulnerabilities for personal gain or to disrupt critical systems. The convergence of ransomware with AI technologies has ushered in a new era of cyber threats, with attackers leveraging generative AI and machine learning to automate and optimize the process of identifying vulnerabilities, launching attacks, and evading detection. These sophisticated techniques enable attackers to exploit weaknesses at an unprecedented scale and speed, making traditional security measures increasingly inadequate.

Cyber resilience has emerged as a critical paradigm for safeguarding against ransomware and AI-driven cyberattacks. For organizations that are looking to the cloud to become more agile and innovate faster, cyber resilience becomes an even more challenging endeavor. Hybrid cloud environments introduce more complexity and an increased exposure to threats, making data security and recoverability of even greater importance.

## CLOUD-DRIVEN CYBER RESILIENCE FOR THE HYBRID WORLD

Commvault and Amazon Web Services (AWS) combine to deliver best-in-class solutions that provide your organization the resilience and data security it needs in the face of the threat of ransomware and cyberattacks. Whether it's adopting simple, scalable storage with Amazon S3 and Amazon S3 Glacier, running workloads on Amazon EC2 compute instances, or leveraging fully managed database services like Amazon RDS or Amazon Aurora – your data is protected and secure, and you can innovate faster with Commvault and AWS.

Commvault® Cloud, powered by Metallic® AI, combines the unmatched breadth of native support for AWS services and other workloads with unique platform services that provide true cloud intelligence, security, and recovery readiness. Whether it's running on-premises in a virtualized environment, containerized, as an Amazon EC2 instance, delivered as SaaS, or a mixture of any of those, Commvault Cloud provides a single interface that enables you to access, manage, and recover data wherever it lives.

Together, Commvault Cloud and AWS provide these three pillars of cyber resilience to ensure your data is secure, defended, and recoverable at all times:

### Unparalleled cloud data security

Foundational security built on zero-trust principles provides the baseline to keep your data encrypted, air-gapped, immutable, and always available – wherever it lives.



#### SECURE CLOUD INFRASTRUCTURE

Highly trusted and secure-by-design, allowing you to confidently accelerate innovation.



#### INTEGRATED IDENTITY & ACCESS MANAGEMENT

Leverage AWS IAM, AWS STS, and AWS KMS for the most secure resource access.



#### IMMUTABILITY & OBJECT LOCKING

Layers of immutability, including Amazon S3 Object Lock, ensure your backup data isn't modified or deleted.



#### ENCRYPTION EVERYWHERE

Prevent your sensitive data from being stolen or falling into the wrong hands.

**AI-driven proactive threat detection**

Utilize the power of AI and machine learning to turn the tables on attackers, applying advanced forensics and generative AI to accelerate threat detection and response.



**ADVANCED WARNING**

Surface threats earlier before data is impacted.



**CYBER DECEPTION**

Proactively bait bad actors into engaging fake resources.



**THE POWER OF AI**

Use AI of your own to detect shape-shifting AI malware and other emerging threats.

**The fastest recovery for any workload**

Ensure predictable, clean, fast recovery at petabyte scale – all at the best TCO.



**ANY WORKLOAD, ANYWHERE**

Recover broadly across cloud, on-prem, and SaaS workloads..



**NATIVE INTEGRATION TO ACCELERATE**

Deep integration with AWS services (Amazon EBS APIs, Amazon S3 Glacier) to accelerate restores up to 85%!<sup>1</sup>



**ELASTICITY & SCALE OF CLOUD**

Dynamic infrastructure that can elastically scale using AWS resources for massively parallel restores.



**OPTIMIZED TO REDUCE COST**

Deduplicated data reduces storage and smart infrastructure cuts compute costs. AWS Graviton and Amazon Linux improve price/performance.

**CONCLUSION**

Commvault and AWS have a long partnership centered around customer-focused innovation. With joint solutions from Commvault and AWS, your organization benefits from industry-leading cyber resilience and security across all your data and hybrid cloud workloads. You'll remain protected from cyberattacks and unexpected data loss while benefitting from the agility, scale, and on-demand consumption of AWS cloud services. And you'll do it all at the best TCO – simplifying management, reducing complexity, and driving down your cloud costs.

<sup>1</sup> <https://aws.amazon.com/blogs/storage/reduce-recovery-time-and-optimize-storage-costs-with-faster-restores-from-amazon-s3-glacier-and-commvault/>

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