



SOLUTION BRIEF

# Cyber Resilience for Applications, Databases, and Data Lakes on AWS

Commvault is revolutionizing cyber resilience with Clumio®. Designed to secure petabytes of AWS data at scale, Clumio offers unparalleled cyber resilience to keep your data safe and ready for rapid recovery. By simplifying backup management and optimizing costs, Clumio empowers organizations to focus on innovation without the burden of data security concerns.

Gain confidence that your organization can quickly recover critical AWS data and maintain a state of continuous business, even in the face of operational mistakes, errors, and cyberattacks.

### Rapid Recovery

Mistakes and cyberattacks happen. Whether it's production data loss or a malicious wipeout, Clumio's instantly scalable recovery technology can help you bounce back quickly in the face of IT disruptions.

### Ransomware Resilience

Your AWS data backed up by Clumio is immutable and indelible, enabling you to withstand encryption attempts and resume operations quickly.

### Cloud Compliance

Even for the most stringent data regulatory frameworks, Clumio simplifies compliance with data protection and resilience requirements with air-gapped backups, auditability, and on-demand reporting.

### AWS Cost Optimization

Cloud bills can be overwhelming. Clumio finds unnecessary snapshots, versions, and replicas, and helps eliminate them, all while optimizing backups across workloads.

## WHAT MAKES CLUMIO DIFFERENT

### One Platform To Safeguard Your Critical Cloud Data

#### Minimal Management Needed

For far too long, cloud backup software has compelled customers to deploy agents in their accounts, creating resource constraints, security vulnerabilities, and management overhead. Clumio puts an end to this complexity. Clumio is built as a serverless and agentless data platform that saves you the trouble of having to deploy, set up, or pre-purchase software. Simply sign up from the AWS Marketplace, connect it to your AWS account, and start backing up your data.

#### Secure By Design

Your data on Clumio cannot be adversely encrypted, deleted, or altered in any way. Clumio air gaps your data from the seed backup and stores it immutably with composite encryption. Access to your environment is multifactor authenticated, permission controlled, and audited. Security controls and policies are implemented by design with no additional management or monitoring requirements.

#### Near-Zero RTO at Scale

Architected as a stateless data processing pipeline with fast-access data and metadata stores, Clumio can help you restore hundred of terabytes of data in a few hours. But that's just the start. Clumio self-optimizes for different restore modalities – you can SQL query your backups to retrieve a single database record, or go back to a particular point in time to restore a volume snapshot, or even give your production applications access to your backups in a DR scenario. Regardless of your recovery use-case, Clumio has you back up and running, fast.

Inexpensive

Not all of your data needs to be backed up. Clumio identifies and backs up exactly what you need and helps you clean up obsolete snapshots, archives, and other unnecessary data. Clumio houses data in hyper-optimized object stores, with no minimum deployment size, consumption requirements, or licensing fees.

Object Storage and Data Lakes

Amazon S3 forms the foundation for data lakes, machine learning, and AI. Clumio not only helps you backup these vast unstructured data repositories, it also enables near-instant restores by giving your application direct access to backed up data. Customers use Clumio to spin up secondary data lakes in minutes, securing them infrastructure-up.

Block and File Storage

Block and file storage solutions such as Amazon EBS serve as persistent datastores for large-scale and high-performance applications. Clumio helps you maintain uptime and resilience of these applications by providing simple rollbacks and fast restores. All backed up data is encrypted, and file-level metadata is indexed for fast searches and retrievals.

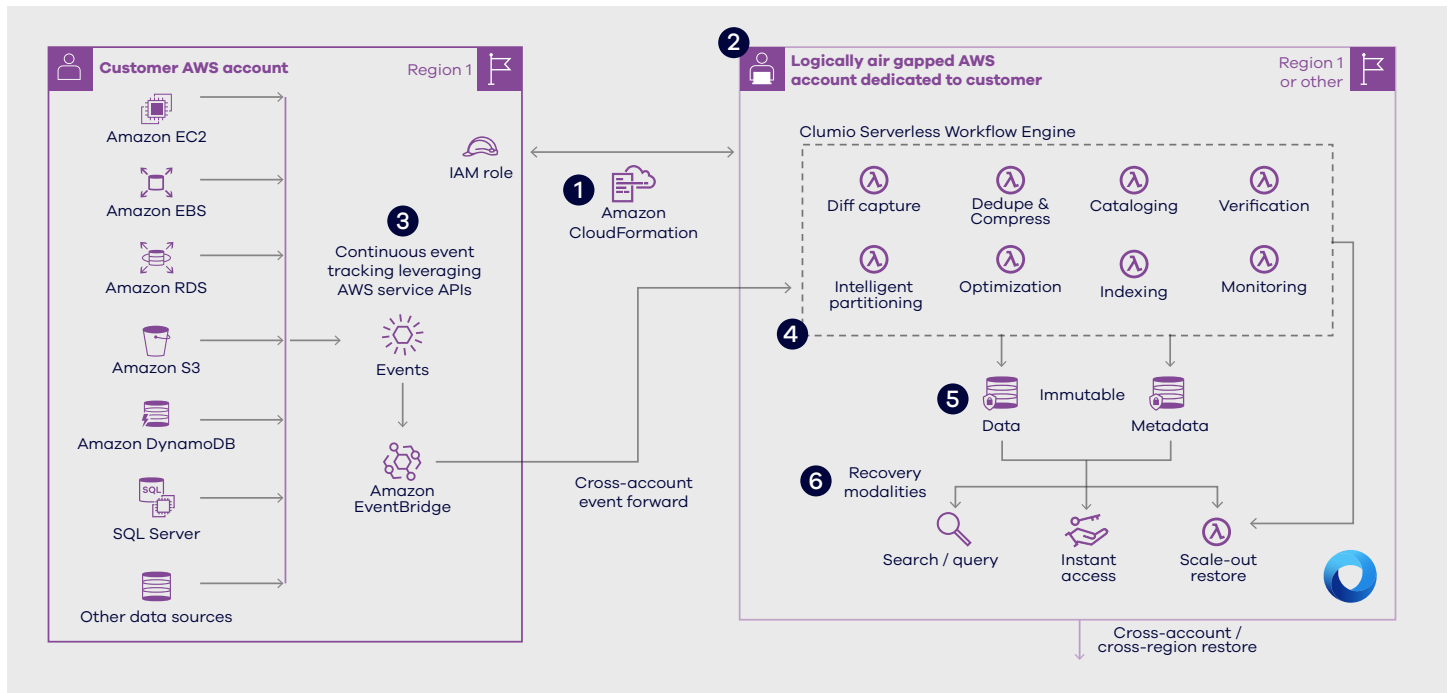
Databases

Your most critical application data resides in your databases. Clumio helps you consolidate and simplify database backups across multiple use cases into unified policies. Whether they're relational or NoSQL, managed, or self-managed, Clumio helps you automate database backups for cyber resilience, operational resilience, and long-term compliance.

ARCHITECTED TO DELIVER PEACE OF MIND

10X Faster Recovery	Powered by its serverless orchestration engine, Clumio can scale to hundreds of petabytes and restore data at 10x the speeds of other solutions.
Security By Design	Data on Clumio is immutable and air-gapped by design. The only way to expunge data from Clumio is with your explicit legal sign off.
>30% Lower Costs	Because you don't have to create a third air-gapped copy of your data, Clumio reduces your overall data footprint. In addition, Clumio helps you identify and back up only the data you deem critical, while eliminating unnecessary snapshots and replicas.
Cloud-Native Simplicity	With nothing to deploy, maintain, or oversee, Clumio simplifies backup operations. Simply connect your AWS account, set up your policies, and start backing up your data.

## ARCHITECTURE DEEP DIVE



- 1 As few as 10 mins to set up. No servers to deploy, configure, and manage
- 2 Air gapped security by default
- 3 High fidelity backup and point-in-time recovery
- 4 Proprietary workflow engine for functions that enables
  - a. Extreme speed and scale
  - b. Highly cost-efficient compute operations
  - c. Predictive troubleshooting
- 5 Immutable low-cost storage secured with customer + Clumio keys
- 6 Easy, fast restores the way you want it
  - a. SQL-query your backups for individual file or record retrieval
  - b. Provide critical applications direct access to backup data to help maintain uptime
  - c. Recover rapidly with massively parallelized restores

## UNITING INFRASTRUCTURE, SECURITY, AND DATA TEAMS TO BUILD MORE RESILIENT APPLICATIONS

### IT, Cloud, and Platform Services

Simplify operational recoveries and DR testing. Build resilient platforms that can recover near-instantly from deletions and failures. Clumio's scale out rehydration engine gets your data back in an application consistent state in minutes.

### Security

Achieve NIST alignment and speed up cyber recovery with point-in-time restores across regions and accounts. Your backups are always encrypted, and each operation is permissioned, audited, and authenticated.

### DevOps, CloudOps, and FinOps

Automate your backups and simplify application recovery with Clumio as code. Integrate Clumio into your CI/CD (Continuous Integration/Continuous Delivery) pipeline, and monitor your secondary data with fine-grained visibility into policies, jobs, and ongoing costs.

### Compliance

All data on Clumio is air gapped, immutable, and compliant with ISO 27001/701, SOC 2, as well as industry-specific frameworks such as HIPAA. With query-to-restore capabilities and granular compliance reporting, Clumio helps you stay audit-ready.

[Get a 14-day free trial](#) of Clumio in AWS Marketplace.

[Schedule a demo](#) and experience simple, logically air-gapped and default-immutable backups for AWS workloads.

To learn more, visit [commvault.com](https://commvault.com)



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