

SOLUTION BRIEF

Protecting data protects patients

Clumio simplifies data protection and compliance for healthcare.



7 out of 10

surveyed organizations reported that healthcare ransomware attacks resulted in longer hospital stays, and created delays in procedures and tests that have resulted in poor outcomes

[Healthcare Cybersecurity Report](#)

“Patient data like records and lab work tend to expand exponentially. Clumio’s infinite scalability means I don’t have to worry about backup keeping up with growth.”

–VP of Technology, BioPlus Specialty Pharmacy

A changing landscape and increased attack surface

The cloud is transforming the healthcare technology space, with healthcare data lakes helping organizations shorten drug discovery and development timelines, share information with scientific communities, power decentralized clinical trials, and plan health system capacity. Meanwhile more and more organizations that handle EHRs are migrating critical patient data to AWS to improve resiliency and scalability. This broadened access, however, also increases the potential attack surface, and cyber attackers have been taking advantage. In 2022, according to [Insider Intelligence](#), US healthcare entities suffered an average of 1,410 weekly cyberattacks per organization, up 86% vs. 2021.

Disruptions impact patient safety

Critically important data can disappear in an instant due not only to cyberattacks, but more mundane threats like accidental deletions or data corruption, with human error accounting for 50% of data loss incidents, according to [Netwrix Research](#). However data is affected, operational and informational disruptions are uniquely problematic for healthcare companies, because the inability to access health records can put patients at risk. Even when patient records are not directly involved, capacity planning, drug development, and important research can be derailed by data loss.

HIPAA compliance is serious business

Companies who deal with patient data, encompassing healthcare providers, life sciences organizations, and companies who serve them, have to comply with HIPAA regulations related to the handling of that data. HIPAA requires that Electronic Protected Health Information (ePHI) must be secured and encrypted in transit, and companies must undergo regular security audits. Meanwhile, backup plans must be in place, and certain types of data must be retained for periods of 6-10 years. Data breaches or mishandling can result in fines of up to \$2 million, not to mention patient safety issues and reputational damage.

Health data is complex; protecting it shouldn’t be

Healthcare data comes in many forms—documents such as patient files, images such as x-rays or scans, small files such as access logs, and the list goes on. These types of data can reside within multiple AWS services, all of which must be protected. Healthcare companies that have recently migrated to the cloud have found that the same data protection strategies they used for on-premises data don’t offer the complete protection needed, or the simplicity desired, especially when it comes to modern services like Amazon S3.

Clumio- Simple, powerful, compliant healthcare data protection

Always-on compliance for healthcare data

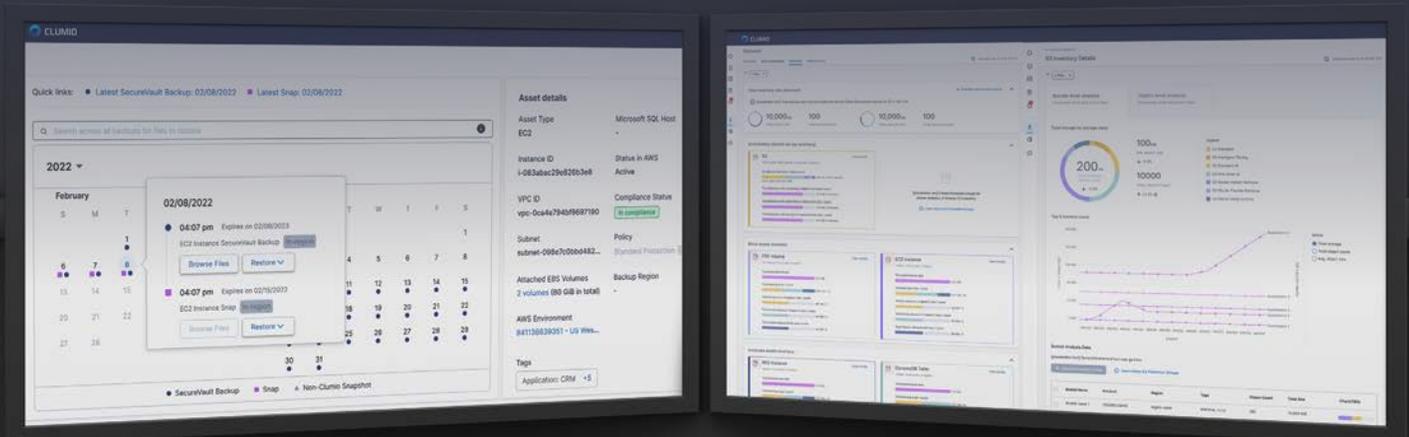
Clumio is a simple, powerful, HIPAA-compliant backup and recovery solution that allows you to protect and secure patient data in minutes. Easy-to-setup automation helps you stay continuously compliant as your AWS data estate grows and changes. Clumio backs up data quickly and reliably, no matter the scale, while file-level indexing, global search and compliance reports make audits a breeze.

Separate, secure backups

Clumio delivers the ultimate air gap— backups are always stored outside your control access domain, and you can choose to back up out of region if desired. All Clumio backups are immutable and end-to-end, FIPS 140-2 encrypted with the ability to bring your own encryption key.

Fast recovery when you need it most

Swift recoveries are essential to avoid disruptive downtimes and unavailable patient data. Clumio dynamically scales to deliver incredibly fast recovery times, made even faster (and less expensive) by the ability to search for and recover only the exact data you need.



Clumio enables the cloud and IT teams of healthcare providers and technologies to fortify their cloud data environment with automated compliance, multi-layered security, and fast recovery that saves the day.

Data protection optimized for the healthcare industry's rigorous requirements

If you have critical data in the cloud, you can be sure that Clumio will help you protect it. Here's how Clumio is different—



Get protected in minutes

- With traditional backup vendors, you have to wait for weeks for equipment to ship, set it up in your data center, and then start protecting assets. And most traditional backup vendors don't even protect cloud workloads.
- With Clumio, you can get your medical data protected in literally minutes. Simply sign up through the website or AWS Marketplace and start protecting your cloud data sources.



Air gap outside your enterprise security sphere

- If you are using native tools like snapshot managers and AWS Backup, even if you use out-of-account and out-of-region protection, your backups are vulnerable if your enterprise credentials are compromised.
- With Clumio, your data is protected and vaulted entirely out of your enterprise security sphere, so even in a worst-case scenario, your critical data is safely air-gapped, as required by HIPAA.



Protect as much—or as little—data as you need

- Native AWS object protection has size limitations that can easily be exceeded by organizations running health data lakes in S3. Moreover, native backups offer fewer ways to classify data to be backed up, causing excess data duplication that leads to prohibitively high cloud bills.
- Clumio, on the other hand, has yet to encounter a customer with too large a data volume to protect. Clumio protects data lakes of any size with speed and efficiency, with no minimum object size and the flexibility to protect only the exact data you need.



Capture every change

- At large volumes, it is computationally intensive and complex to save each change, which is why most backup vendors offer RPOs of hours.
- No matter the scale of your data, Clumio can back it up every 15 minutes, ensuring that the latest changes are saved—and can be recovered when needed.



Recover Instantly

- In the event of a disruption, you need to be able to count on your data protection solution to deliver. Unfortunately, while recovering large or disparate data sources, it can get very complex to know what data to restore. Moreover, most backup vendors falter in delivering quick recoveries for cloud workloads, and restores take hours.
- With Clumio, not only do you have a one-stop-shop to protect and recover all your data in the cloud ([EC2/EBS](#), [S3](#), [RDS](#), [DynamoDB](#), [SQL on EC2](#), [VMware Cloud on AWS](#)), its simple calendar views and protection groups help you find exactly which data to restore. During a recovery operation, Clumio automatically scales to increase restore throughput, driving parallel I/O operations for scale-out rehydration, and its intelligent indexing optimizes the restore process further. The speed at which Clumio can recover your data is unmatched. Clumio has the lowest RTO for any cloud data protection solution.



Simplify your cloud backup

- For a healthcare customer handling troves of sensitive data, it is imperative for the protection and recovery to be radically simple. However, as the volume of data grows and spreads across multiple cloud services, snapshot-based backups or DIY tooling like versioning can get complex and expensive, and are not HIPAA-compliant.
- Clumio simplifies data protection at scale. With Clumio's intuitive protection groups, you can define protection and recovery policies for particular data sets, optimizing your cloud costs and keeping in compliance. Additionally, with Clumio's visibility dashboards, ransomware risk assessment, rich REST API, and proactive support, your entire data security posture is always at your fingertips.

Why choose Clumio?



HIPAA-compliant protection



Air gapped and immutable



Industry-leading RTO & RPO



Cost-optimized

Trusted by leading healthcare companies



PACIFIC
DENTAL SERVICES®



Rush Memorial Hospital
Committed to You. Close to Home.



SHIELDS
HEALTH SOLUTIONS

St. Charles
HEALTH SYSTEM

BioPlus®
Specialty Pharmacy

Simple, automated healthcare data protection and compliance

clumio.com/demo

