Challenge
Protect EBS Volumes in AWS Accounts

Organizations running applications on Amazon Elastic Compute Cloud (EC2) with Amazon Elastic Block Store (EBS) make assumptions about data backup. Approaches for backing up AWS include snapshot managers and legacy, on-prem tools. Snapshots store data within accounts putting data at risk if those accounts are compromised. The cost of storing snapshots to meet compliance is high. On-prem tools were not built for cloud and require workarounds. Both methods leave data open to risk- the most common being accidental deletion and ransomware. Managing thousands of AWS accounts with different backup tools is complex. Enterprises need dedicated backup to protect EBS volumes.

The Clumio Solution
Backup as a Service for AWS Native Services

To simplify complexity, Clumio offers backup to protect EBS volumes in AWS accounts. Enterprises can back up data in AWS accounts from a uniform set of backup policies. Clumio provides efficient storage, charging for provisioned terabytes versus backup storage consumed. This cost-effectively supports data retention to meet compliance requirements. Tenant data is always segmented and encrypted with unique keys. During backups, data is written to an S3 object store in an immutable format for air gapped security. Clumio’s enterprise backup as a service, frees IT talent to focus on other valuable business activities without worrying about data protection.

Benefits
Backup from a uniform set of backup policies to protect EBS volumes—efficiently and cost-effectively to be compliant.

- **Cost Effective Data Retention**
  With cloud efficiencies for backup, retain data as long as required to meet compliance- with over 50% savings for data retention.

- **Easy to Manage**
  Manage backup of EBS volumes in tens to thousands of AWS accounts, from a uniform set of backup policies. Includes proactive monitoring and support.

- **Predictable Costs**
  Pricing is based on provisioned terabytes versus storage consumed for backup.

- **Always-on Security**
  Tenant data is segmented and encrypted with unique keys. Data is written to an S3 object store in an immutable format, for air gapped security—providing another data source in the case of ransomware.
Protect Data in AWS Accounts
The transition to the cloud takes time, but the complexity of managing backups should not be a hindrance. Enterprise EC2/EBS production workloads running in the cloud need an effective backup solution. Clumio provides a single service to protect EBS volumes in tens to thousands of AWS accounts. Clumio’s backup as a service protects valuable data stored in EBS volumes and enables customers to meet data retention requirements efficiently and cost-effectively.

AWS Integration

Built on AWS
Clumio leverages S3, EC2, Lambda, and DynamoDB among other AWS services. The Clumio Cloud Connector that backs up data from AWS accounts to Clumio S3 buckets is built via an Auto-Scaling Group (ASG). EC2 instances in ASG are dynamically spun up during backups and down after. This automation utilizes the on-demand capabilities of AWS to reduce costs and management. Clumio uses on-demand compute of EC2 and Lambda to run activities like indexing, enabling file restores.

Integration with AWS Key Management Service
Clumio leverages the AWS Key Management Service to generate a unique Customer Master Key (CMK) for each customer. Clumio implements AES-256 bit FIPS 140-2 compliant encryption. Encryption is the first step that occurs to protect customer data. This architecture enables the protection of customer data in-flight or at rest through end to end encryption.

“When data is dispersed across regions and accounts and is expensive to move, a SaaS application like Clumio that is wholly focused on data protection will allow us to more quickly execute on strategic initiatives. My team also has tremendous appreciation for the simplicity and function of the Clumio service. The Clumio support experience is unique and prescriptive and they remediate issues in a timely manner." Jim Boyer, CIO, Rush Memorial Hospital.

Get started with Clumio on AWS
Visit Clumio to learn more or schedule a demo today.