Amazon Macie

Discover and protect your sensitive data at scale

Amazon Macie is data security service that uses machine learning and pattern matching to discover and protect your sensitive data in Amazon Simple Storage Service (Amazon S3).
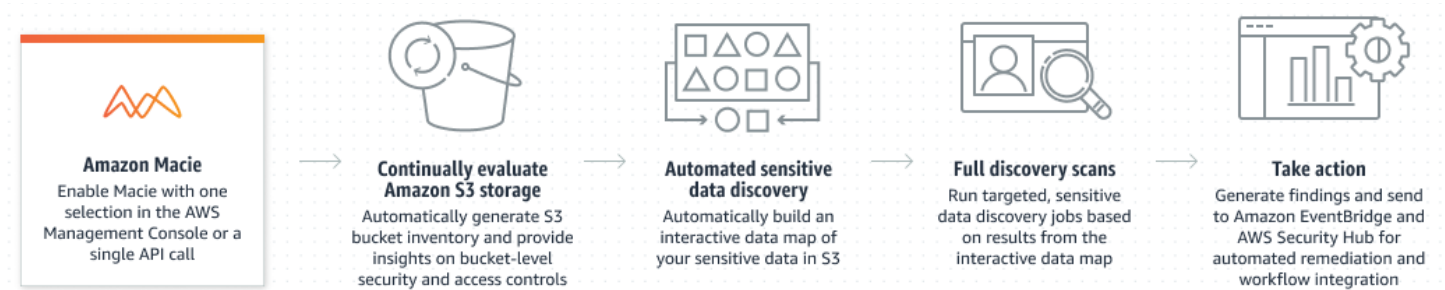
Amazon Macie can automatically discover sensitive data, such as personally identifiable information (PII), and provide insights on bucket-level security and access controls. Additionally, Amazon Macie can publish its findings to AWS Security Hub and Amazon EventBridge for automated remediation.

Benefits

- **Data visibility:** A comprehensive view of your data stored in Amazon S3.

- **Cost-efficiency:** Pay only for the data you analyze.

- **Scalability:** Analyze data across multiple AWS accounts and Regions.

How It Works

Amazon Macie is a data security service that uses machine learning (ML) and pattern matching to discover and help protect your sensitive data.

Amazon Macie
Enable Macie with one selection in the AWS Management Console or a single API call

Continually evaluate Amazon S3 storage
Automatically generate S3 bucket inventory and provide insights on bucket-level security and access controls

Automated sensitive data discovery
Automatically build an interactive data map of your sensitive data in S3

Full discovery scans
Run targeted, sensitive data discovery jobs based on results from the interactive data map

Take action
Generate findings and send to Amazon EventBridge and AWS Security Hub for automated remediation and workflow integration

Use Cases

Strengthen your data security posture
Discover sensitive data across your S3 environment to increase visibility and automated remediation of data security risks.

Discover sensitive data for compliance
Schedule data analysis to certify that sensitive data is discovered and protected.

Protect sensitive data during migration
During data ingestion, determine if sensitive data has been appropriately protected.

Increase visibility for business crucial data
Automatically and continually monitor all your sensitive data stored in S3 buckets.