Amazon Macie

Amazon Macie is a service designed to automatically discover, classify, and protect sensitive data in AWS.

Amazon Macie Overview

1. **Discovery and Classification**

   Amazon Macie uses machine learning to automatically discover and classify sensitive data such as Personally Identifiable Information (PII), financial data, and intellectual property.

2. **Data Protection**

   It provides monitoring and alerts for suspicious activity, helping to protect sensitive data from unauthorized access or accidental leaks.

3. **Compliance**

   Macie helps in meeting regulatory compliance requirements by identifying and protecting sensitive data.

Use Cases

1. **Data Discovery and Classification**

   - Automatically identify and classify sensitive data within your AWS environment.
   - Discover and categorize sensitive data to maintain compliance with data protection regulations.

2. **Data Security and Monitoring**

   - Monitor and receive alerts for suspicious activity related to sensitive data.
   - Implement data loss prevention (DLP) policies to prevent unauthorized access or data leaks.

3. **Compliance Management**

- Assist in complying with data protection regulations (e.g., GDPR, HIPAA) by identifying and protecting sensitive information.
- Simplify the process of managing and securing sensitive data in accordance with industry standards.

How to Use Amazon Macie

1. **Enable Macie**

- Sign in to the AWS Management Console.
- Open the Macie console and enable the service for your AWS account.

2. **Create and Configure Macie S3 Buckets**

- Specify the S3 buckets that you want Macie to monitor.
- Configure the settings for each bucket, including encryption and logging options.

3. **Configure Macie for Sensitive Data Discovery**

- Set up and configure Macie to automatically discover and classify sensitive data.
- Customize classification settings based on your specific needs.

4. **Review Macie Findings**

- Regularly review Macie findings to identify and address any security or compliance issues.
- Investigate and take action on any alerts generated by Macie.

Pricing

Amazon Macie pricing involves charges for the amount of data analyzed and the number of S3 buckets to monitor.

Region: Europe (Frankfurt) ⇕

Bucket inventory and monitoring	Pricing
Buckets / month	$0.10 per bucket

Data inspected per month for automated and targeted sensitive data discovery	Pricing
First 50 TB / month	$1.25 per GB
Next 450 TB / month	$0.63 per GB
Over 500 TB / month	$0.31 per GB

Automated data discovery object monitoring	Pricing
Objects / month	$0.012 per 100k objects

AWS Documentation