



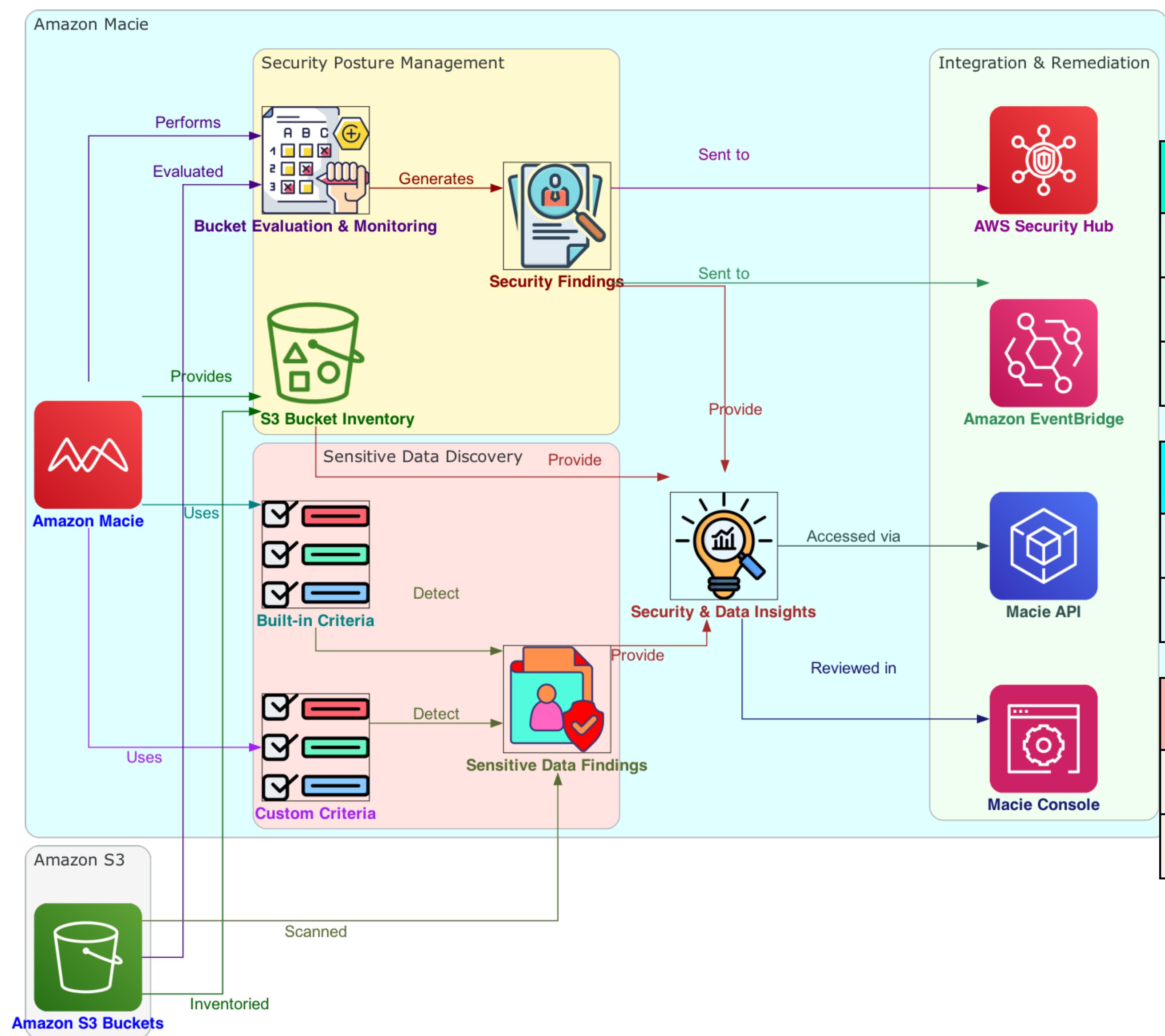
Amazon Macie

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Amazon Macie



1. **Discovers sensitive data**

Uses machine learning

Employs pattern matching

Identifies data in Amazon S3

2. **Provides visibility into data security risks**

Offers overview of potential risks

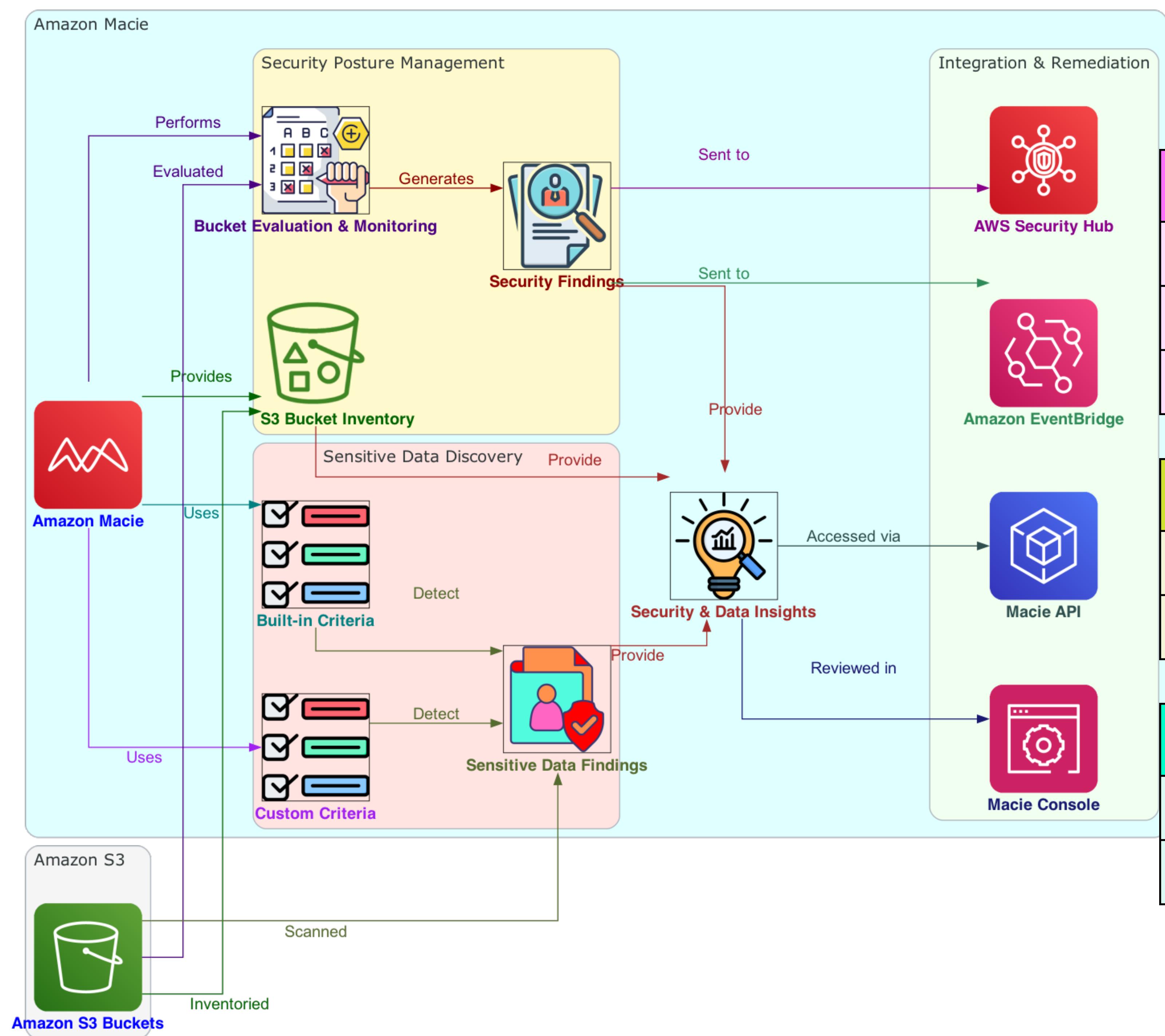
Enables informed decisions

3. **Enables automated protection against risks**

Automates data protection

Ensures proactive security approach

Amazon Macie



4. Offers inventory of S3 buckets

Evaluates security posture

Monitors security and access control

Helps maintain strong security posture

5. Generates findings for potential issues

Detects publicly accessible buckets

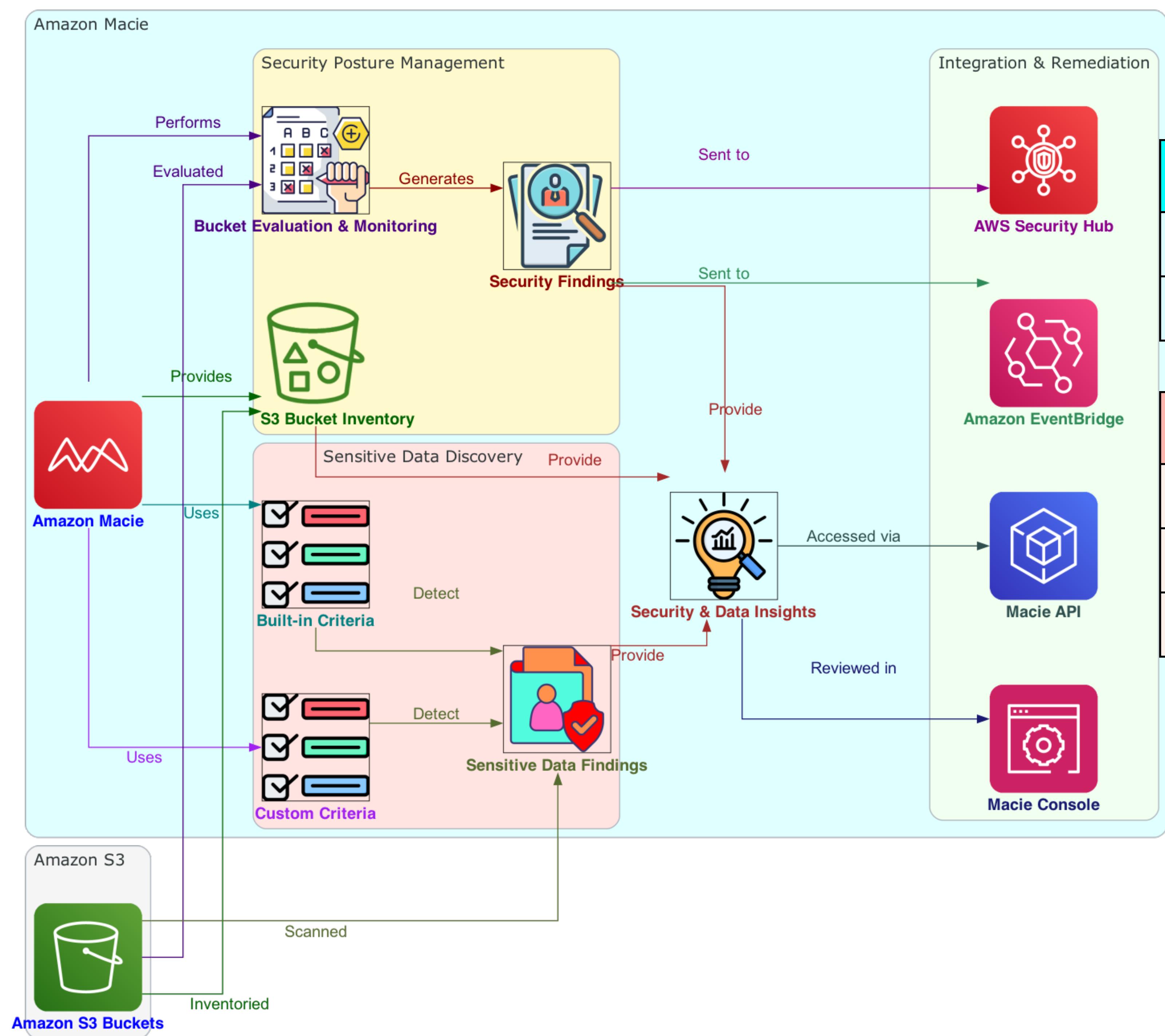
Keeps you informed about data security

6. Automates discovery and reporting of sensitive data

Discovers sensitive data in S3

Provides understanding of data landscape

Amazon Macie



7. Provides statistics and insights

Offers insights into S3 data security posture

Helps identify sensitive data location

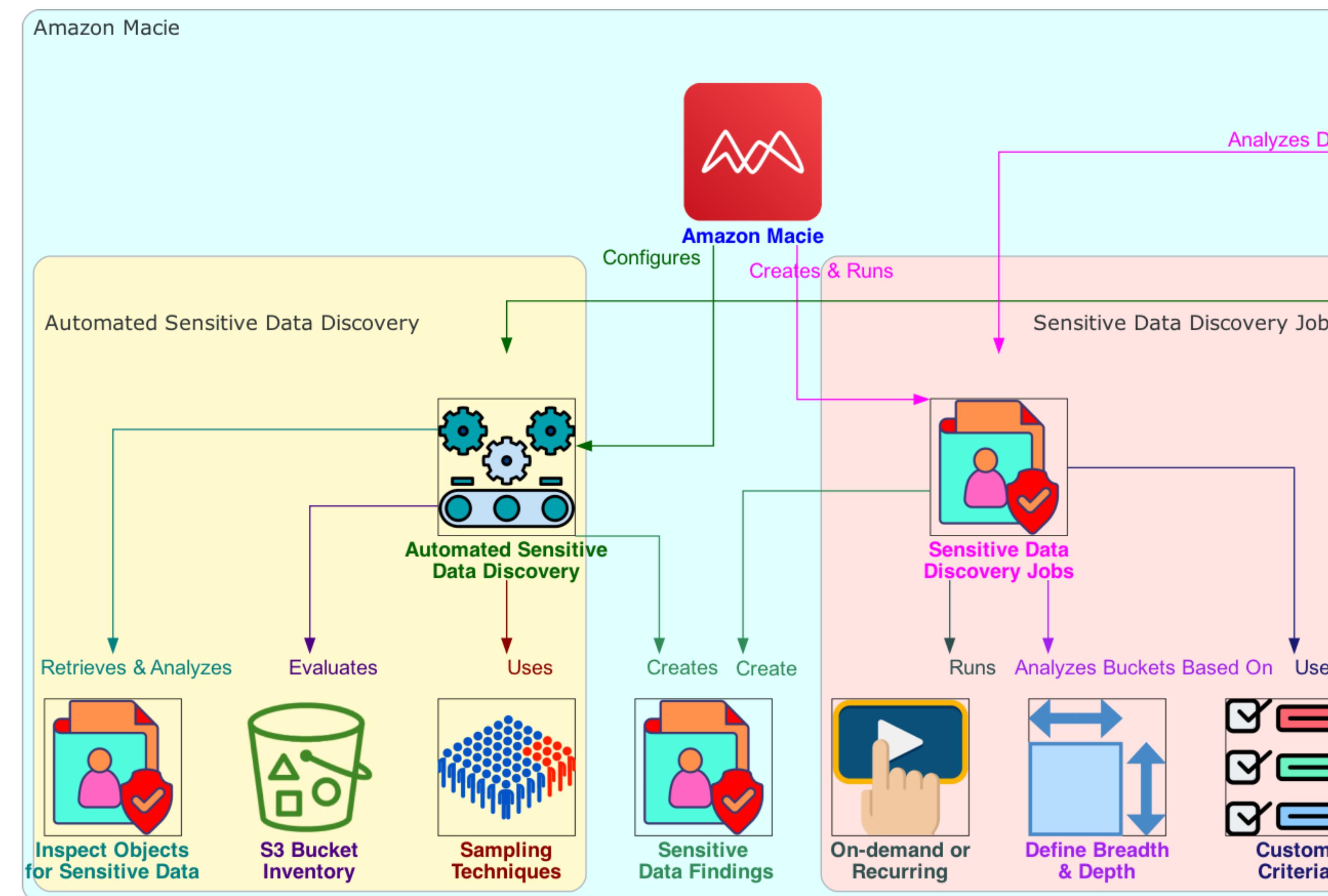
8. Integrates with other services

Works with Amazon EventBridge

Connects to AWS Security Hub

Enables comprehensive security approach

Automate the discovery of sensitive data



1. Two methods

⌚ **Automated discovery**

🔍 **Discovery jobs**

2. Sensitive data findings

📝 **Detailed reports**

3. Broad visibility with automated discovery

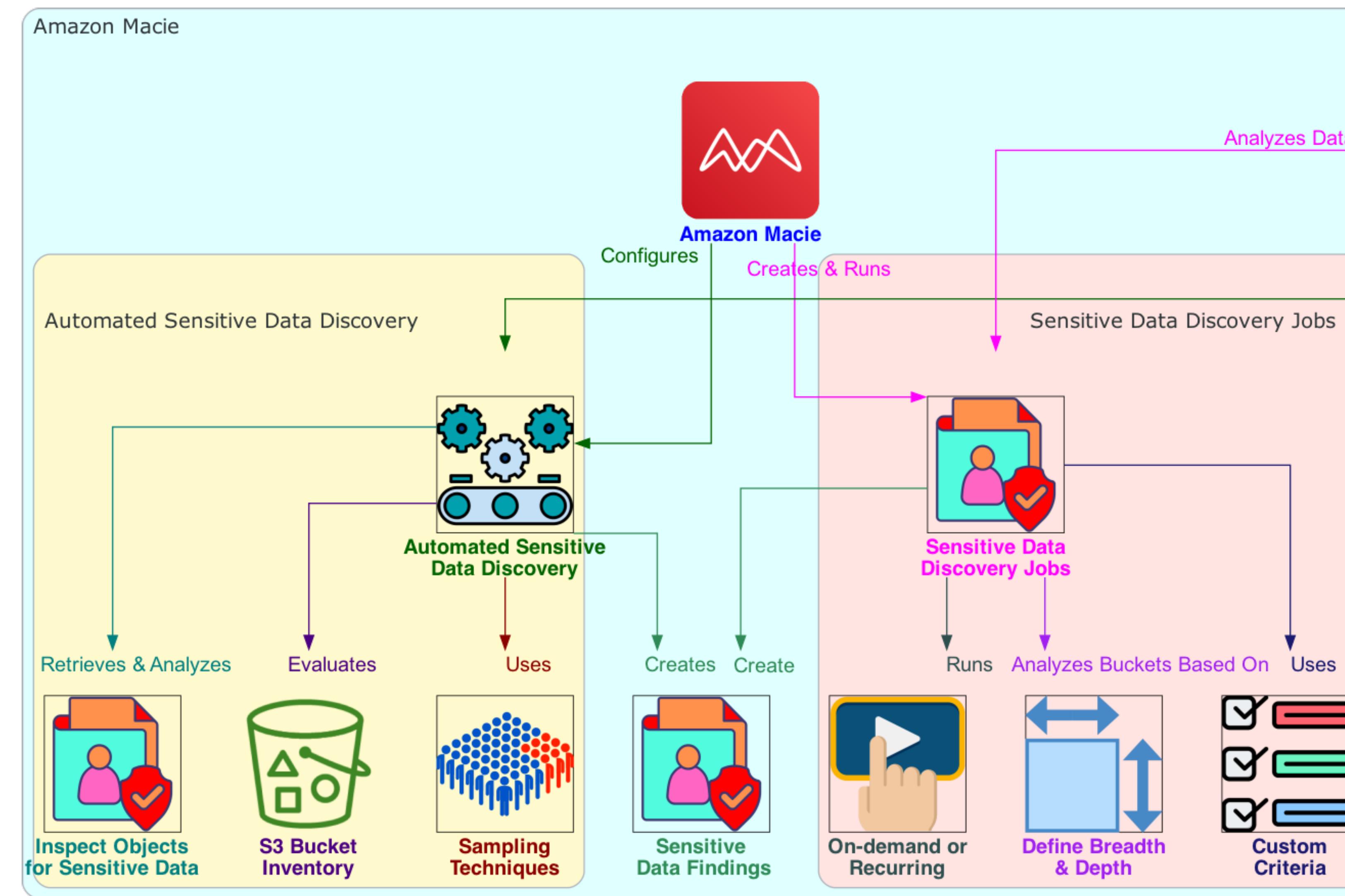
🔍 **Sensitive data in S3**

⌚ **Continual evaluation of S3 inventory**

🔍 **Sampling techniques**

🔍 **Inspection for sensitive data**

Automate the discovery of sensitive data



4. Targeted analysis with discovery jobs

Deeper analysis

Customizable breadth & depth

Specific S3 buckets

Sampling depth

Custom criteria based on S3 properties

5. Customizable job parameters

S3 buckets to analyze

Sampling depth for object selection

Custom criteria from S3 properties

6. Job scheduling

On-demand analysis & assessment

Recurring for periodic monitoring

7. Comprehensive view of data & risks

Data stored in S3

Associated security or compliance risks

Discovering Sensitive Data Types

1. Managed data identifiers

Machine learning

Pattern matching

Analyzes S3 objects

2. Detects sensitive data

PII

Financial information

Credentials data

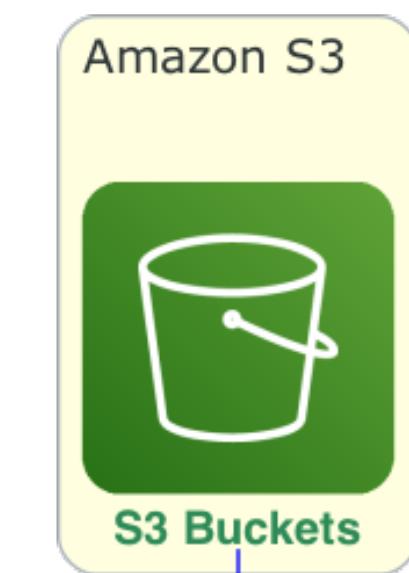
Multiple countries and regions

3. Custom data identifiers

Regex for text patterns

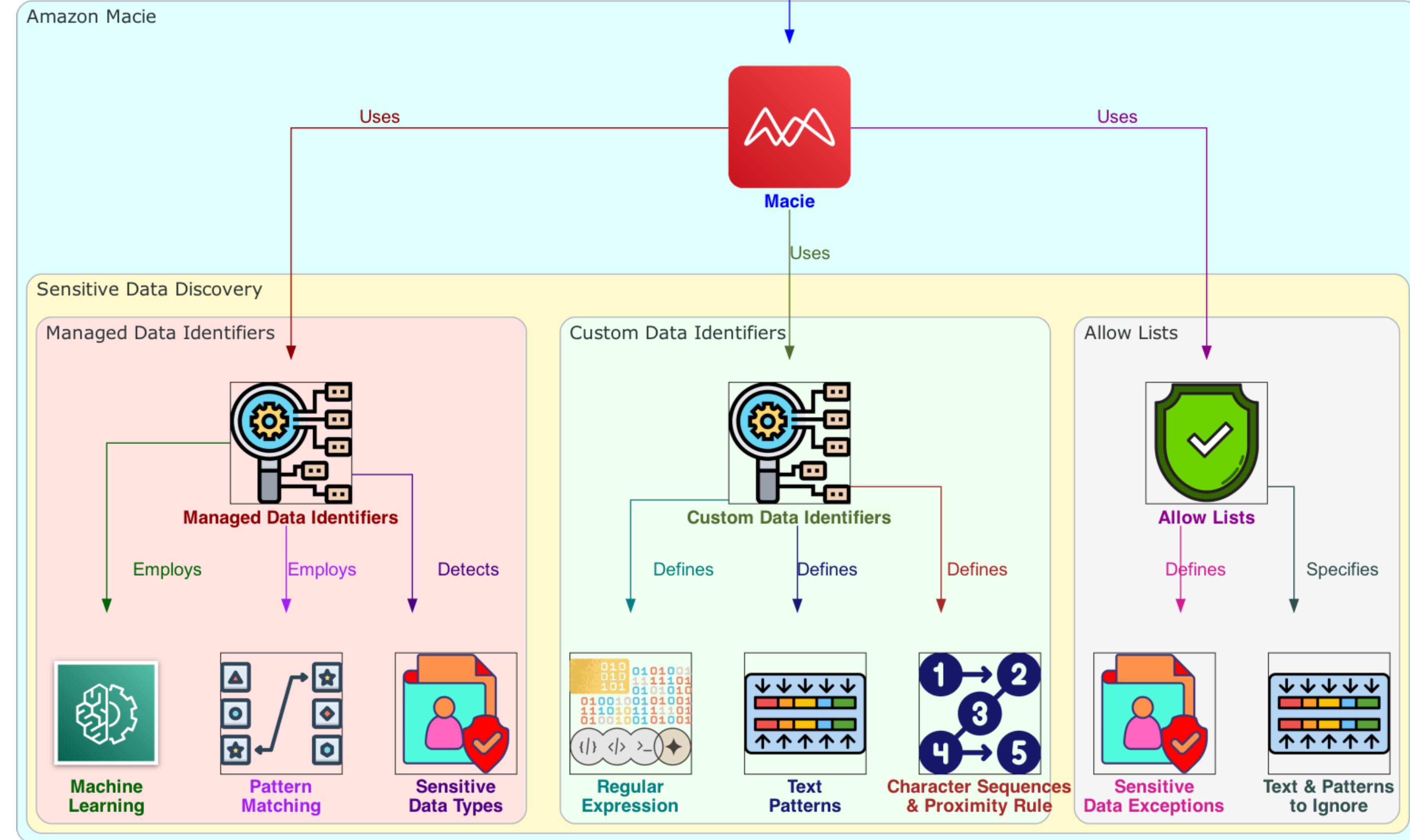
Optional character sequences

Proximity rules for refinement



S3 Buckets

Stores Objects for Analysis



Discovering Sensitive Data Types

4. Identifies proprietary data

Particular scenarios

Intellectual property

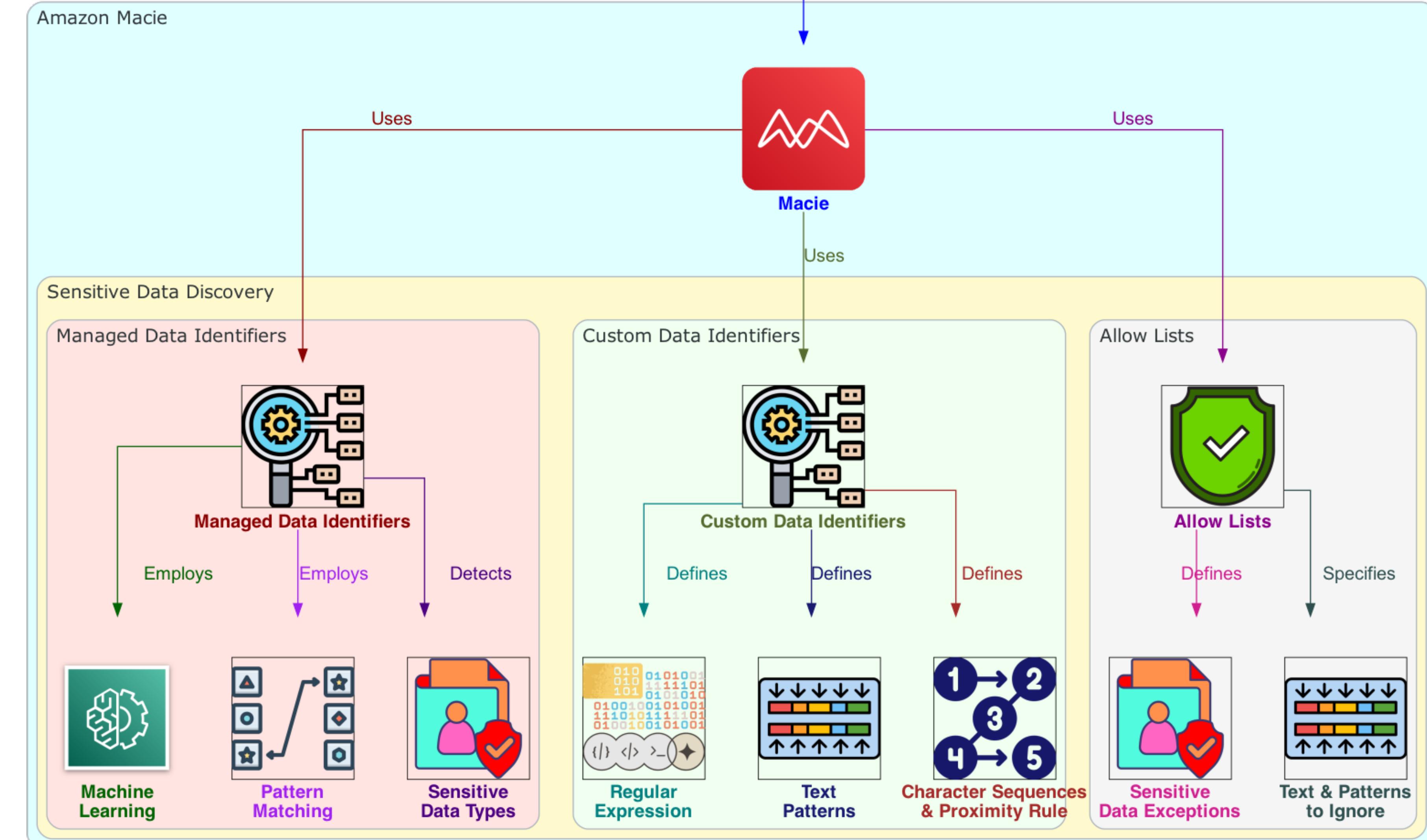
+ Supplements managed identifiers

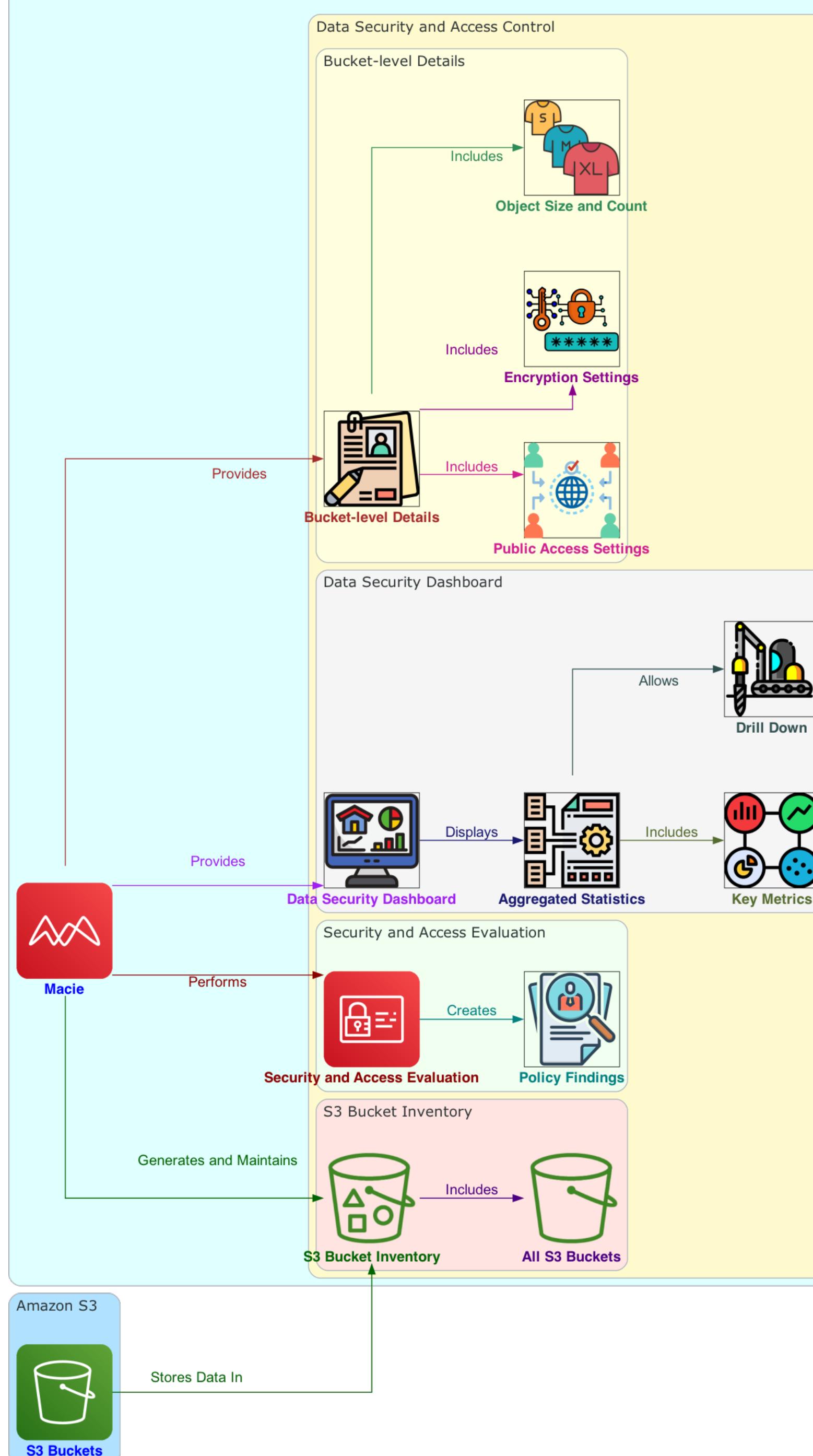
5. Allow lists

Define exceptions

Specific text and patterns to ignore

Environment-specific exceptions

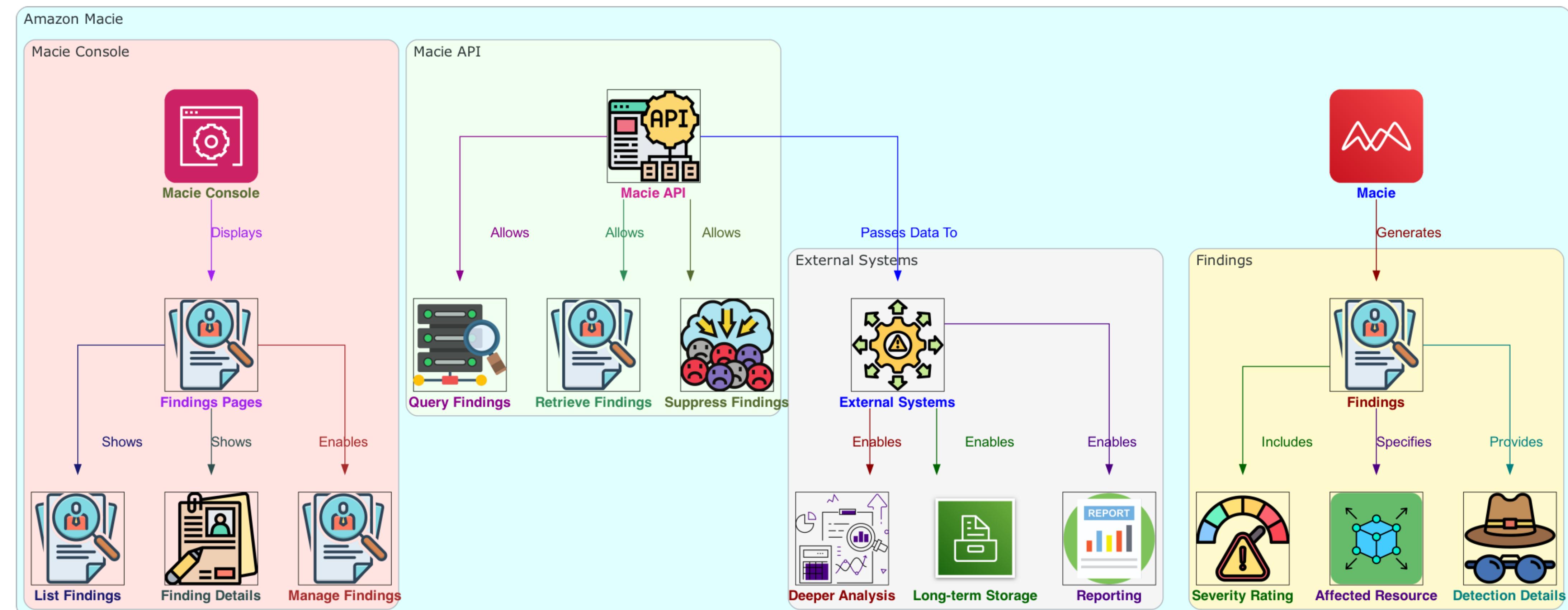




Evaluating and Monitoring Data Security with Amazon Macie

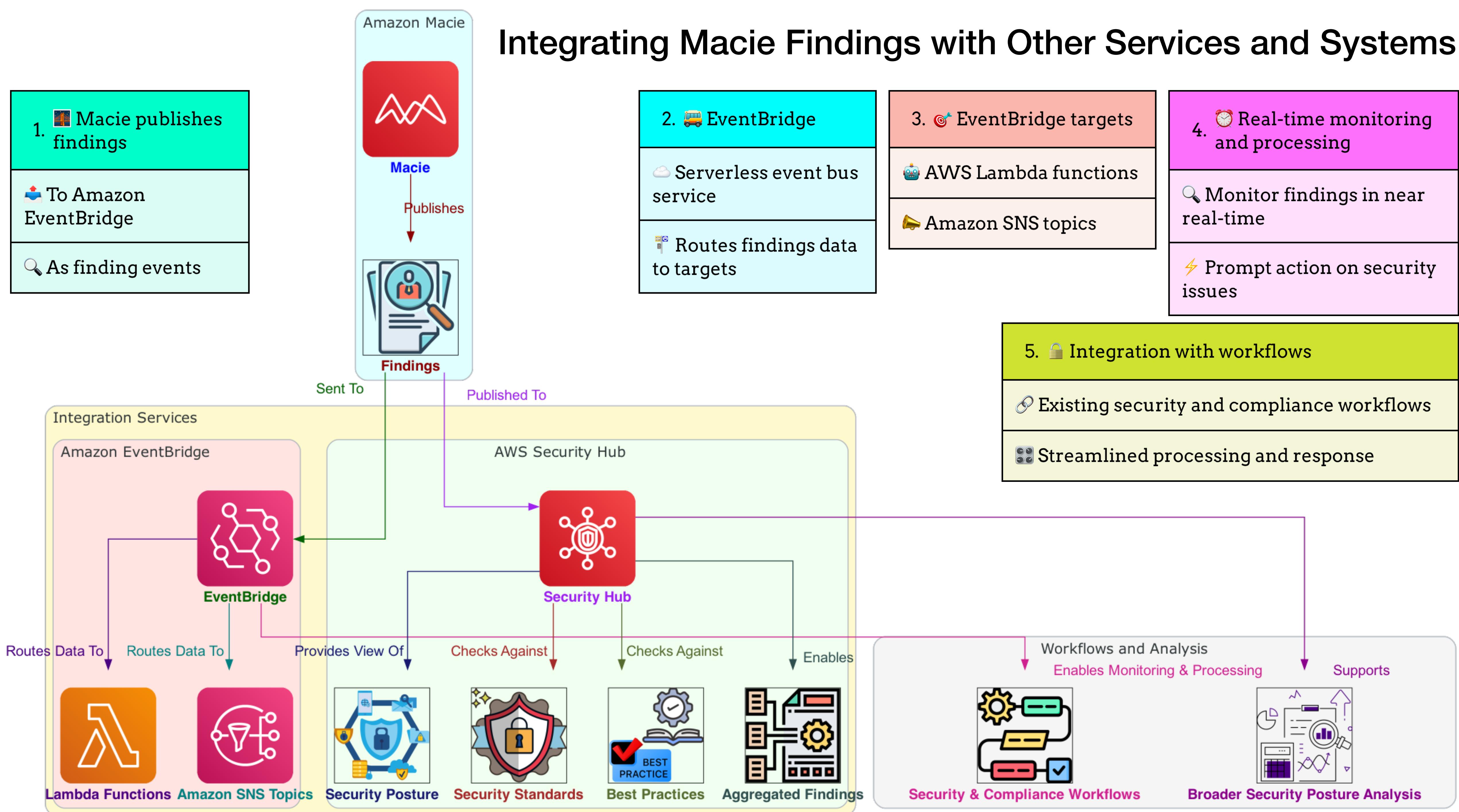
1. **Automatic S3 bucket inventory**
 - Generated when Macie enabled
 - Continuously maintained
2. **Continuous evaluation and monitoring**
 - Security and access control
 - Starts when Macie enabled
3. **Policy findings**
 - Potential security or privacy issues
 - Review and address
4. **Dashboard**
 - Aggregated statistics for S3 data
 - Complements specific findings
5. **Key metrics**
 - Publicly accessible buckets
 - Shared with other AWS accounts
6. **Detailed bucket information**
 - Statistics for individual buckets
 - Public access settings
 - Encryption settings
 - Object size and count
7. **Browsing and filtering inventory**
 - Browse S3 bucket inventory
 - Sort and filter by fields
 - Locate specific buckets or data

Reviewing and Analyzing Findings in Amazon Macie

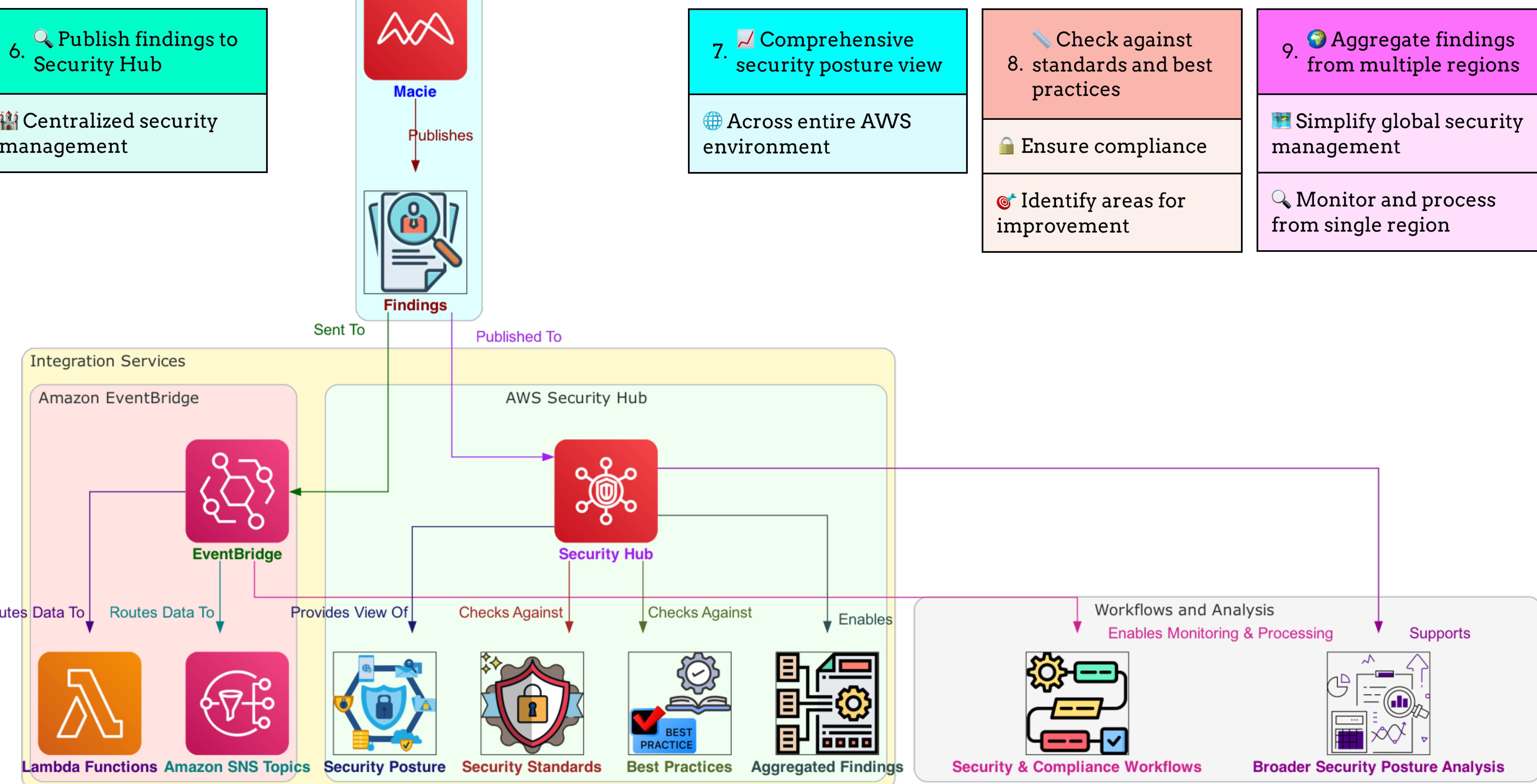


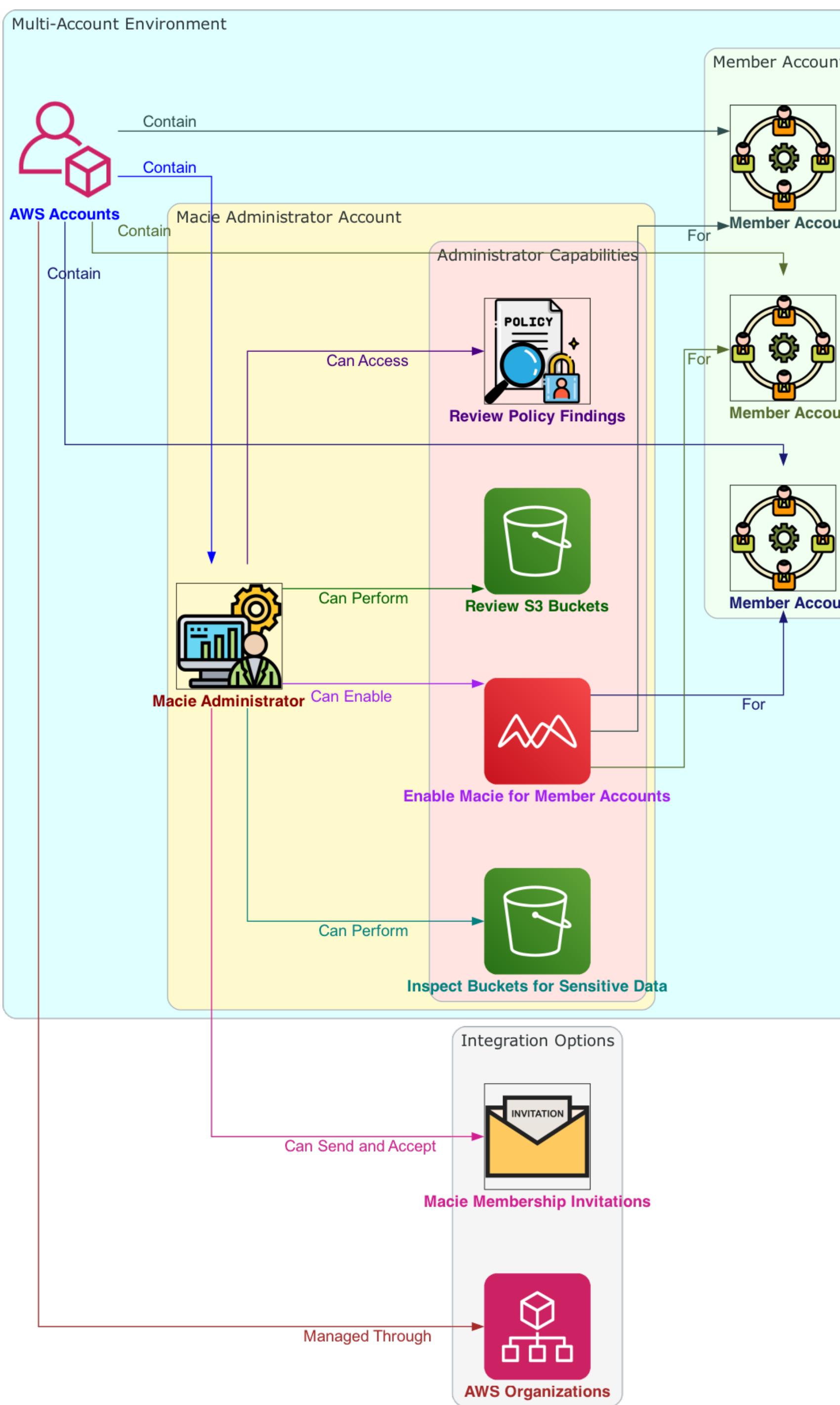
1. Findings	2. Finding details	3. Macie console	4. Findings management	5. Macie API	6. Passing data to external systems
Detailed reports	Severity rating	Findings pages	Grouping options	Query findings	Deeper analysis
Sensitive data or security issues	Affected resource	List findings	Filtering options	Retrieve findings	Long-term storage
S3 objects or buckets	Detection details	Individual finding details	Sorting options	Suppress findings	Reporting purposes

Integrating Macie Findings with Other Services and Systems



Integrating Macie Findings with Other Services and Systems

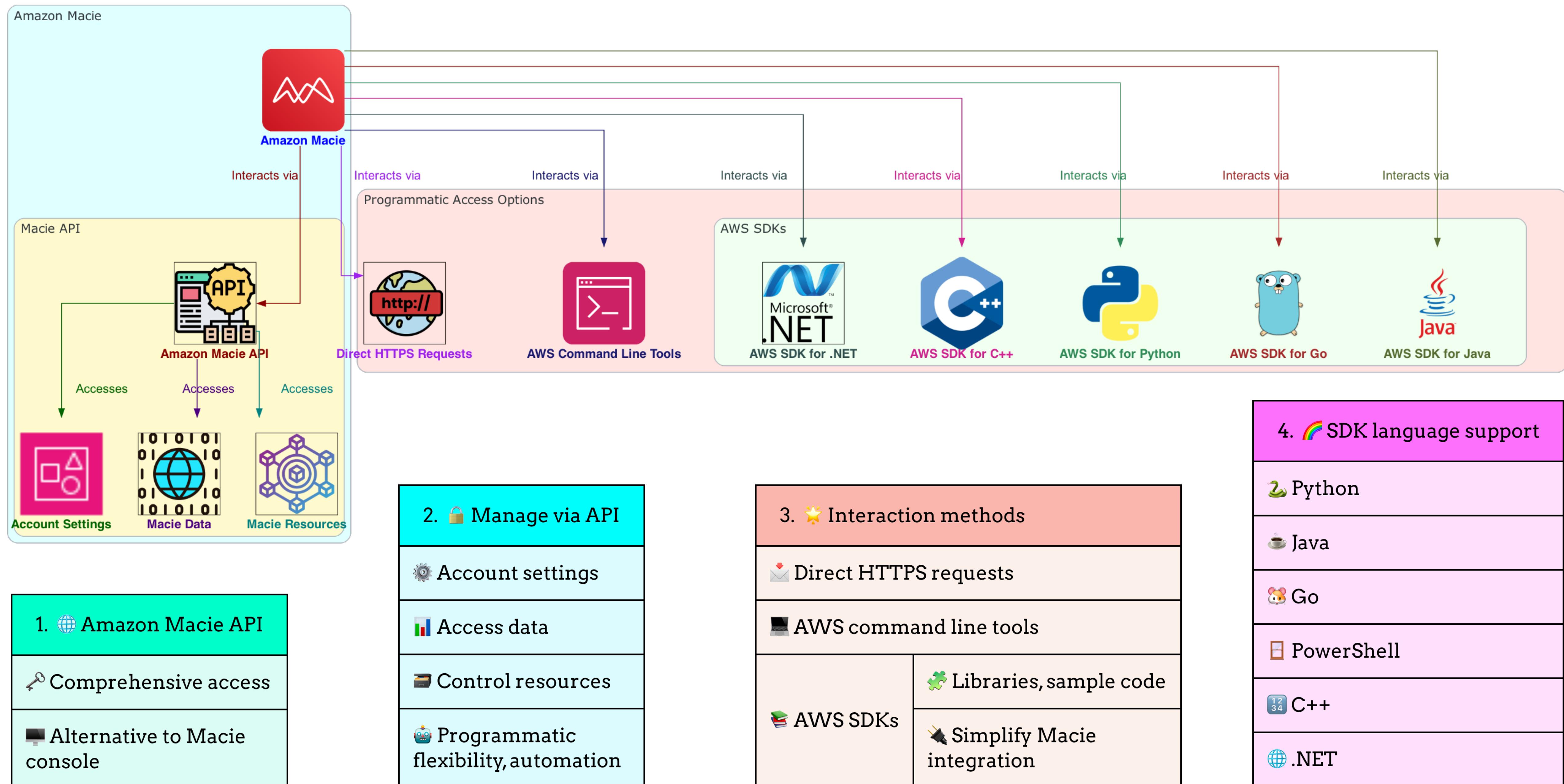


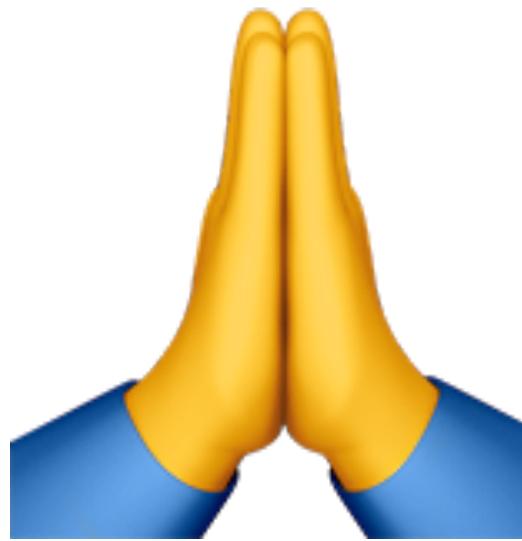


Centrally Managing Multiple Macie Accounts

1. 🌐 Manage Macie for multiple AWS accounts
 - Multiple accounts in AWS environment
 - Central management of Macie
2. 👉 Two integration options
 - AWS Organizations
 - Macie invitations
3. 👤 Designated Macie administrator
 - Performs tasks, accesses settings
 - For member accounts in organization
4. 🔍 Review S3 bucket information and policy findings
 - For member account buckets
5. 🔍 Inspect member account buckets
 - For sensitive data
6. 🔑 Enable Macie for member accounts
 - If associated through AWS Organizations

Programmatic Interaction with Amazon Macie





**Thanks
for
Watching**