Amazon Macie

REST API Reference
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Welcome

Amazon Macie is a data security service that discovers sensitive data by using machine learning and pattern matching, provides visibility into data security risks, and enables automated protection against those risks.

To help you manage the security posture of your organization's Amazon Simple Storage Service (Amazon S3) data estate, Macie provides you with an inventory of your S3 buckets and automatically evaluates and monitors the buckets for security and access control. If Macie detects a potential issue with the security or privacy of your data, such as a bucket that becomes publicly accessible, Macie generates a finding for you to review and remediate as necessary.

Macie also automates discovery and reporting of sensitive data to provide you with a better understanding of the data that your organization stores in Amazon S3. To detect sensitive data, you can use built-in criteria and techniques that Macie provides, custom criteria that you define, or a combination of the two. If Macie detects sensitive data in an S3 object, Macie generates a finding to notify you of the sensitive data that it found.

In addition to findings, Macie provides statistics and other data that offer insight into the security posture of your Amazon S3 data and where sensitive data might reside in your data estate. The statistics and data can guide your decisions to perform deeper investigations of specific S3 buckets and objects. You can analyze and process findings, statistics, and other data by using the Amazon Macie API. You can also leverage Macie integration with Amazon EventBridge and AWS Security Hub to monitor, process, and remediate findings by using other services, applications, and systems.

This guide, the Amazon Macie REST API Reference, provides information about the Amazon Macie API. This includes supported resources, HTTP methods, parameters, and schemas. If you're new to Macie, you might find it helpful to also review the Amazon Macie User Guide. The Amazon Macie User Guide explains key concepts and provides procedures that demonstrate how to use Macie features. It also provides information about topics such as integrating Macie with other AWS services.

In addition to interacting with Macie by making RESTful calls to the Amazon Macie API, you can use a current version of an AWS command line tool or SDK. AWS provides tools and SDKs that consist of libraries and sample code for various languages and platforms, such as PowerShell, Java, Go, Python, C++, and .NET. These tools and SDKs provide convenient, programmatic access to Macie and other AWS services. They also handle tasks such as signing requests, managing errors, and retrying requests automatically. For information about installing and using the AWS tools and SDKs, see Tools to Build on AWS.

Finding regional endpoints

The Amazon Macie API is available in most AWS Regions and it provides an endpoint for each of these Regions. For a list of Regions and endpoints where the API is currently available, see Amazon Macie endpoints and quotas in the AWS General Reference. To learn about managing AWS Regions for your AWS account, see Specifying which AWS Regions your account can use in the AWS Account Management Reference Guide.

When you send a request to the Amazon Macie API, the request applies only to the AWS Region that's currently active for your AWS account or specified in the request. If your request submits changes to configuration or other settings for your account, the changes apply only to that Region. To make the same changes in other Regions, send the request in each additional Region that you want to apply the changes to.
Managing multiple accounts

If your AWS environment has multiple accounts, you can associate the Amazon Macie accounts in your environment and centrally manage them as an organization in Macie. To do this, designate a single Macie account as the delegated Macie administrator account and associate other Macie accounts with it as member accounts. You can do this in two ways, by integrating Macie with AWS Organizations or by sending and accepting membership invitations in Macie. We recommend that you integrate Macie with AWS Organizations.

With this configuration, a designated Macie administrator can assess and monitor the overall security posture of the organization's Amazon Simple Storage Service (Amazon S3) data estate. The Macie administrator can: access certain Macie settings, data, and resources for member accounts; perform automated sensitive data discovery and run classification jobs to detect sensitive data in S3 buckets that member accounts own; and, perform various account management and administration tasks at scale, such as monitoring estimated usage costs and assessing account quotas.

If you have a member account in an organization, you can access Macie settings, data, and resources only for your own account. For this reason, you might not be able to use certain operations of the Amazon Macie API.

For information about the tasks that administrator and member accounts can perform, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

Signing requests

When you send an HTTPS request to the Amazon Macie API, you have to sign the request by using your AWS access key, which consists of an access key ID and a secret access key. For everyday work with Macie, we strongly recommend that you not use the access key ID and secret access key for your root AWS account. Instead, use the access key ID and secret access key for an AWS Identity and Access Management (IAM) identity. You can also use the AWS Security Token Service to generate temporary security credentials that you can use to sign requests. All Amazon Macie operations require Signature Version 4.

For information about using credentials and signing requests, refer to the following resources in the IAM User Guide:

- **AWS security credentials** – Provides information about the types of credentials that can be used to access AWS.
- **IAM identities** – Provides information about the types of identities that can be used to access an AWS account.
- **Temporary security credentials in IAM** – Provides information about creating and using temporary security credentials.
- **Signing AWS API requests** – Provides information about signing an API request.

Logging API calls

Amazon Macie integrates with AWS CloudTrail, which is a service that provides a record of actions that were taken in Macie by a user, a role, or another AWS service. This includes actions that were performed using the Amazon Macie console and programmatic calls to Amazon Macie operations.

By using the information collected by CloudTrail, you can determine which requests were sent to Macie successfully. For each request, you can identify when it was made, the IP address from which it was
made, who made it, and additional details. To learn more about CloudTrail, see the [AWS CloudTrail User Guide](https://docs.aws.amazon.com/AmazonCloudTrail/latest/userguide/).
Operations

The Amazon Macie REST API includes the following operations.

- **AcceptInvitation (p. 340)**
  Accepts an Amazon Macie membership invitation that was received from a specific account.
- **BatchGetCustomDataIdentifiers (p. 163)**
  Retrieves information about one or more custom data identifiers.
- **CreateAllowList (p. 43)**
  Creates and defines the settings for an allow list.
- **CreateClassificationJob (p. 96)**
  Creates and defines the settings for a classification job.
- **CreateCustomDataIdentifier (p. 156)**
  Creates and defines the criteria and other settings for a custom data identifier.
- **CreateFindingsFilter (p. 330)**
  Creates and defines the criteria and other settings for a findings filter.
- **CreateInvitations (p. 360)**
  Sends an Amazon Macie membership invitation to one or more accounts.
- **CreateMember (p. 398)**
  Associates an account with an Amazon Macie administrator account.
- **CreateSampleFindings (p. 237)**
  Creates sample findings.
- **DeclineInvitations (p. 349)**
  Declines Amazon Macie membership invitations that were received from specific accounts.
- **DeleteAllowList (p. 30)**
  Deletes an allow list.
- **DeleteCustomDataIdentifier (p. 147)**
  Soft deletes a custom data identifier.
- **DeleteFindingsFilter (p. 517)**
  Deletes a findings filter.
- **DeleteInvitations (p. 354)**
  Deletes Amazon Macie membership invitations that were received from specific accounts.
- **DeleteMember (p. 380)**
  Deletes the association between an Amazon Macie administrator account and an account.
- **DescribeBuckets (p. 180)**
  Retrieves (queries) statistical data and other information about one or more S3 buckets that Amazon Macie monitors and analyzes for an account.
• **DescribeClassificationJob (p. 73)**
  Retrieves the status and settings for a classification job.

• **DescribeOrganizationConfiguration (p. 61)**
  Retrieves the Amazon Macie configuration settings for an organization in AWS Organizations.

• **DisableMacie (p. 11)**
  Disables Amazon Macie and deletes all settings and resources for a Macie account.

• **DisableOrganizationAdminAccount (p. 52)**
  Disables an account as the delegated Amazon Macie administrator account for an organization in AWS Organizations.

• **DisassociateFromAdministratorAccount (p. 26)**
  Disassociates a member account from its Amazon Macie administrator account.

• **DisassociateFromMasterAccount (p. 376)**
  (Deprecated) Disassociates a member account from its Amazon Macie administrator account. This operation has been replaced by the **DisassociateFromAdministratorAccount (p. 26)** operation.

• **DisassociateMember (p. 388)**
  Disassociates an Amazon Macie administrator account from a member account.

• **EnableMacie (p. 13)**
  Enables Amazon Macie and specifies the configuration settings for a Macie account.

• **EnableOrganizationAdminAccount (p. 54)**
  Designates an account as the delegated Amazon Macie administrator account for an organization in AWS Organizations.

• **GetAdministratorAccount (p. 20)**
  Retrieves information about the Amazon Macie administrator account for an account.

• **GetAllowList (p. 31)**
  Retrieves the settings and status of an allow list.

• **GetAutomatedDiscoveryConfiguration (p. 68)**
  Retrieves the configuration settings and status of automated sensitive data discovery for an account.

• **GetBucketStatistics (p. 201)**
  Retrieves (queries) aggregated statistical data about all the S3 buckets that Amazon Macie monitors and analyzes for an account.

• **GetClassificationExportConfiguration (p. 129)**
  Retrieves the configuration settings for storing data classification results.

• **GetClassificationScope (p. 136)**
  Retrieves the classification scope settings for an account.

• **GetCustomDataIdentifier (p. 148)**
  Retrieves the criteria and other settings for a custom data identifier.

• **GetFindings (p. 250)**
  Retrieves the details of one or more findings.
• **GetFindingsFilter (p. 318)**
  Retrieves the criteria and other settings for a findings filter.

• **GetFindingsPublicationConfiguration (p. 291)**
  Retrieves the configuration settings for publishing findings to AWS Security Hub.

• **GetFindingStatistics (p. 242)**
  Retrieves (queries) aggregated statistical data about findings.

• **GetInvitationsCount (p. 344)**
  Retrieves the count of Amazon Macie membership invitations that were received by an account.

• **GetMacieSession (p. 11)**
  Retrieves the status and configuration settings for an Amazon Macie account.

• **GetMasterAccount (p. 371)**
  (Deprecated) Retrieves information about the Amazon Macie administrator account for an account. This operation has been replaced by the **GetAdministratorAccount (p. 20)** operation.

• **GetMember (p. 381)**
  Retrieves information about an account that's associated with an Amazon Macie administrator account.

• **GetResourceProfile (p. 406)**
  Retrieves (queries) sensitive data discovery statistics and the sensitivity score for an S3 bucket.

• **GetRevealConfiguration (p. 309)**
  Retrieves the status and configuration settings for retrieving occurrences of sensitive data reported by findings.

• **GetSensitiveDataOccurrences (p. 298)**
  Retrieves occurrences of sensitive data reported by a finding.

• **GetSensitiveDataOccurrencesAvailability (p. 304)**
  Checks whether occurrences of sensitive data can be retrieved for a finding.

• **GetSensitivityInspectionTemplate (p. 428)**
  Retrieves the settings for the sensitivity inspection template for an account.

• **GetUsageStatistics (p. 444)**
  Retrieves (queries) quotas and aggregated usage data for one or more accounts.

• **GetUsageTotals (p. 454)**
  Retrieves (queries) aggregated usage data for an account.

• **ListAllowLists (p. 42)**
  Retrieves a subset of information about all the allow lists for an account.

• **ListClassificationJobs (p. 114)**
  Retrieves a subset of information about one or more classification jobs.

• **ListClassificationScopes (p. 143)**
  Retrieves a subset of information about the classification scope for an account.

• **ListCustomDataIdentifiers (p. 169)**
  Retrieves a subset of information about all the custom data identifiers for an account.
• **ListFindings (p. 230)**
  Retrieves a subset of information about one or more findings.
• **ListFindingsFilters (p. 329)**
  Retrieves a subset of information about all the findings filters for an account.
• **ListInvitations (p. 359)**
  Retrieves information about the Amazon Macie membership invitations that were received by an account.
• **ListManagedDataIdentifiers (p. 368)**
  Retrieves information about all the managed data identifiers that Amazon Macie currently provides.
• **ListMembers (p. 397)**
  Retrieves information about the accounts that are associated with an Amazon Macie administrator account.
• **ListOrganizationAdminAccounts (p. 53)**
  Retrieves information about the delegated Amazon Macie administrator account for an organization in AWS Organizations.
• **ListResourceProfileArtifacts (p. 415)**
  Retrieves information about objects that were selected from an S3 bucket for automated sensitive data discovery.
• **ListResourceProfileDetections (p. 419)**
  Retrieves information about the types and amount of sensitive data that Amazon Macie found in an S3 bucket.
• **ListSensitivityInspectionTemplates (p. 435)**
  Retrieves a subset of information about the sensitivity inspection template for an account.
• **ListTagsForResource (p. 440)**
  Retrieves the tags (keys and values) that are associated with an Amazon Macie resource.
• **PutClassificationExportConfiguration (p. 129)**
  Creates or updates the configuration settings for storing data classification results.
• **PutFindingsPublicationConfiguration (p. 292)**
  Updates the configuration settings for publishing findings to AWS Security Hub.
• **SearchResources (p. 214)**
  Retrieves (queries) statistical data and other information about AWS resources that Amazon Macie monitors and analyzes.
• **TagResource (p. 441)**
  Adds or updates one or more tags (keys and values) that are associated with an Amazon Macie resource.
• **TestCustomDataIdentifier (p. 175)**
  Tests a custom data identifier.
• **UntagResource (p. 440)**
  Removes one or more tags (keys and values) from an Amazon Macie resource.
• **UpdateAllowList (p. 32)**
Updates the settings for an allow list.

- **UpdateAutomatedDiscoveryConfiguration (p. 68)**
  Enables or disables automated sensitive data discovery for an account.

- **UpdateClassificationJob (p. 74)**
  Changes the status of a classification job.

- **UpdateClassificationScope (p. 137)**
  Updates the classification scope settings for an account.

- **UpdateFindingsFilter (p. 319)**
  Updates the criteria and other settings for a findings filter.

- **UpdateMacieSession (p. 12)**
  Suspends or re-enables Amazon Macie, or updates the configuration settings for a Macie account.

- **UpdateMemberSession (p. 392)**
  Enables an Amazon Macie administrator to suspend or re-enable Macie for a member account.

- **UpdateOrganizationConfiguration (p. 62)**
  Updates the Amazon Macie configuration settings for an organization in AWS Organizations.

- **UpdateResourceProfile (p. 407)**
  Updates the sensitivity score for an S3 bucket.

- **UpdateResourceProfileDetections (p. 420)**
  Updates the sensitivity scoring settings for an S3 bucket.

- **UpdateRevealConfiguration (p. 310)**
  Updates the status and configuration settings for retrieving occurrences of sensitive data reported by findings.

- **UpdateSensitivityInspectionTemplate (p. 428)**
  Updates the settings for the sensitivity inspection template for an account.
Resources

The Amazon Macie REST API includes the following resources.

Topics

- Account Administration (p. 10)
- Administrator (p. 20)
- Administrator Disassociation (p. 25)
- Allow List (p. 29)
- Allow Lists (p. 42)
- AWS Organizations - Macie Administrator (p. 52)
- AWS Organizations - Macie Configuration (p. 60)
- Automated Sensitive Data Discovery Configuration (p. 67)
- Classification Job (p. 73)
- Classification Job Creation (p. 96)
- Classification Job List (p. 114)
- Classification Results - Export Configuration (p. 128)
- Classification Scope (p. 135)
- Classification Scopes (p. 143)
- Custom Data Identifier (p. 147)
- Custom Data Identifier Creation (p. 155)
- Custom Data Identifier Descriptions (p. 163)
- Custom Data Identifier List (p. 168)
- Custom Data Identifier Testing (p. 174)
- Data Sources - Amazon S3 (p. 180)
- Data Sources - Amazon S3 Statistics (p. 200)
- Data Sources - Search (p. 213)
- Finding List (p. 229)
- Finding Samples (p. 237)
- Finding Statistics (p. 242)
- Findings (p. 250)
- Findings - Publication Configuration (p. 291)
- Findings - Reveal Sensitive Data Occurrences (p. 297)
- Findings - Reveal Sensitive Data Occurrences Availability (p. 303)
- Findings - Reveal Sensitive Data Occurrences Configuration (p. 308)
- Findings Filter (p. 317)
- Findings Filters (p. 329)
- Invitation Acceptance (p. 339)
- Invitation Count (p. 344)
Account Administration

The Account Administration resource provides access to the status and certain configuration settings for your Amazon Macie account.

You can use this resource to enable Macie for your AWS account and specify certain settings for your Macie account. When you enable Macie, the service generates a Macie session for your AWS account in the current AWS Region. The service also assigns a unique identifier to that session. A session is a resource that represents the Macie service for a specific AWS account in a specific Region. It enables Macie to become operational. An AWS account can have only one Macie session in each Region.

After you enable Macie, you can use this resource to review and update the status and certain configuration settings for your Macie account. This includes suspending (pausing) and later re-enabling Macie. If you suspend Macie, the service stops performing all activities for your account and it cancels all of your classification jobs. However, the service retains the session identifier, settings, and resources for your account. If your account is the Macie administrator account for an organization, you must remove all member accounts that are associated with your account before you suspend Macie.

If you want to disable Macie completely, you can use this resource to do so. If you disable Macie, the service stops performing all activities for your account. In addition, Macie permanently deletes all resources that it stores or maintains for you. This includes classification jobs, custom data identifiers, findings, and the session resource (and identifier) for your account. This doesn't include resources that Macie created and stored in other AWS services for you. These might include sensitive data discovery results in Amazon Simple Storage Service (Amazon S3), finding events in Amazon EventBridge, and findings in AWS Security Hub.

If you want to disable Macie and your account is the Macie administrator account for an organization, you must first:

- Remove all member accounts that are associated with your administrator account.
- Delete the associations between your administrator account and its member accounts.
If you want to disable Macie and your account is a Macie member account in an organization, you must first disassociate your account from its Macie administrator account.

**URI**

/macie

**HTTP methods**

DELETE

**Operation ID:** DisableMacie

Disables Amazon Macie and deletes all settings and resources for a Macie account.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 14)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 14)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 15)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 15)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
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<td>ResourceNotFoundException (p. 15)</td>
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<td>ConflictException (p. 15)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 15)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 15)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**GET**

**Operation ID:** GetMacieSession
Retrieves the status and configuration settings for an Amazon Macie account.

### Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetMacieSessionResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
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<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### PATCH

**Operation ID:** UpdateMacieSession

Suspends or re-enables Amazon Macie, or updates the configuration settings for a Macie account.

### Responses

<table>
<thead>
<tr>
<th>Status code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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### HTTP methods

<table>
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<tr>
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<tr>
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<td>ThrottlingException (p. 15)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
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<tr>
<td>500</td>
<td>InternalServerException (p. 15)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### POST

**Operation ID:** EnableMacie

Enables Amazon Macie and specifies the configuration settings for a Macie account.

### Responses

<table>
<thead>
<tr>
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<tbody>
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<td>ConflictException (p. 15)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
</tbody>
</table>
## Status code

| 429 | ThrottlingException (p. 15) | The request failed because you sent too many requests during a certain amount of time. |
| 500 | InternalServerErrorException (p. 15) | The request failed due to an unknown internal server error, exception, or failure. |

## Schemas

### Request bodies

**PATCH schema**

```json
{
   "findingPublishingFrequency": enum,
   "status": enum
}
```

**POST schema**

```json
{
   "clientToken": "string",
   "findingPublishingFrequency": enum,
   "status": enum
}
```

### Response bodies

**Empty Schema schema**

```json
{
}
```

**GetMacieSessionResponse schema**

```json
{
   "createdAt": "string",
   "findingPublishingFrequency": enum,
   "serviceRole": "string",
   "status": enum,
   "updatedAt": "string"
}
```

**ValidationException schema**

```json
{
   "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
**Properties**

**ConflictException**

Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

**Empty**

The request succeeded and there isn’t any content to include in the body of the response (No Content).

**EnableMacieRequest**

Enables Amazon Macie and specifies the configuration settings for a Macie account.

**clientToken**

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

- **Type:** string
- **Required:** False

**findingPublishingFrequency**

Specifies how often to publish updates to policy findings for the account. This includes publishing updates to AWS Security Hub and Amazon EventBridge (formerly Amazon CloudWatch Events).

- **Type:** FindingPublishingFrequency (p. 16)
- **Required:** False

**status**

Specifies the new status for the account. To enable Amazon Macie and start all Macie activities for the account, set this value to ENABLED.

- **Type:** MacieStatus (p. 18)
- **Required:** False

**FindingPublishingFrequency**

The frequency with which Amazon Macie publishes updates to policy findings for an account. This includes publishing updates to AWS Security Hub and Amazon EventBridge (formerly Amazon CloudWatch Events). For more information, see [Monitoring and processing findings](#) in the *Amazon Macie User Guide*. Valid values are:

- FIFTEEN_MINUTES
- ONE_HOUR
- SIX_HOURS
GetMacieSessionResponse

Provides information about the status and configuration settings for an Amazon Macie account.

**createdAt**

The date and time, in UTC and extended ISO 8601 format, when the Amazon Macie account was created.

- **Type:** string
- **Required:** False
- **Format:** date-time

**findingPublishingFrequency**

The frequency with which Amazon Macie publishes updates to policy findings for the account. This includes publishing updates to AWS Security Hub and Amazon EventBridge (formerly Amazon CloudWatch Events).

- **Type:** FindingPublishingFrequency ([p. 16](#))
- **Required:** False

**serviceRole**

The Amazon Resource Name (ARN) of the service-linked role that allows Amazon Macie to monitor and analyze data in AWS resources for the account.

- **Type:** string
- **Required:** False

**status**

The current status of the Amazon Macie account. Possible values are: PAUSED, the account is enabled but all Macie activities are suspended (paused) for the account; and, ENABLED, the account is enabled and all Macie activities are enabled for the account.

- **Type:** MacieStatus ([p. 18](#))
- **Required:** False

**updatedAt**

The date and time, in UTC and extended ISO 8601 format, of the most recent change to the status or configuration settings for the Amazon Macie account.

- **Type:** string
- **Required:** False
- **Format:** date-time

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.
Type: string  
Required: False

**MacieStatus**

The status of an Amazon Macie account. Valid values are:

PAUSED  
ENABLED

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

message  
The explanation of the error that occurred.

Type: string  
Required: False

**ServiceQuotaExceedededException**

Provides information about an error that occurred due to one or more service quotas for an account.

message  
The explanation of the error that occurred.

Type: string  
Required: False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message  
The explanation of the error that occurred.

Type: string  
Required: False

**UpdateMacieSessionRequest**

Changes the status or configuration settings for an Amazon Macie account.

**findingPublishingFrequency**

Specifies how often to publish updates to policy findings for the account. This includes publishing updates to AWS Security Hub and Amazon EventBridge (formerly Amazon CloudWatch Events).
Type: FindingPublishingFrequency (p. 16)
Required: False

status

Specifies a new status for the account. Valid values are: ENABLED, resume all Amazon Macie activities for
the account; and, PAUSED, suspend all Macie activities for the account.

Type: MacieStatus (p. 18)
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see
the following:

DisableMacie

• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript V3
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3

GetMacieSession

• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript V3
• AWS SDK for PHP V3
• AWS SDK for Python
If your account is an Amazon Macie member account in an organization, the Administrator resource provides information about the Macie administrator account for your account. If you joined the organization by accepting a Macie membership invitation, this resource also provides information about that invitation. For information about the relationship between your account and its Macie administrator account, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

You can use the Administrator resource to retrieve information about the Macie administrator account for your account.

**URI**

/administrator

**HTTP methods**

GET

**Operation ID:** GetAdministratorAccount

Retrieves information about the Amazon Macie administrator account for an account.
Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetAdministratorAccountResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 21)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 22)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 22)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 22)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 22)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 22)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Response bodies

GetAdministratorAccountResponse schema

```json
{
  "administrator": {
    "accountId": "string",
    "invitationId": "string",
    "invitedAt": "string",
    "relationshipStatus": enum
  }
}
```

ValidationException schema

```json
{
  "message": "string"
}
```
### Properties

#### AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

#### ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.
message
The explanation of the error that occurred.

Type: string
Required: False

GetAdministratorAccountResponse
Provides information about the Amazon Macie administrator account for an account. If the accounts are associated by a Macie membership invitation, the response also provides information about that invitation.

administrator
The AWS account ID for the administrator account. If the accounts are associated by an Amazon Macie membership invitation, this object also provides details about the invitation that was sent to establish the relationship between the accounts.

Type: Invitation (p. 23)
Required: False

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

Invitation
Provides information about an Amazon Macie membership invitation.

accountId
The AWS account ID for the account that sent the invitation.

Type: string
Required: False

invitationId
The unique identifier for the invitation.

Type: string
Required: False

invitedAt
The date and time, in UTC and extended ISO 8601 format, when the invitation was sent.
**Type**: string  
**Required**: False  
**Format**: date-time

**relationshipStatus**

The status of the relationship between the account that sent the invitation and the account that received the invitation.

**Type**: RelationshipStatus (p. 24)  
**Required**: False

**RelationshipStatus**

The current status of the relationship between an account and an associated Amazon Macie administrator account. Possible values are:

- Enabled
- Paused
- Invited
- Created
- Removed
- Resigned
- EmailVerificationInProgress
- EmailVerificationFailed
- RegionDisabled
- AccountSuspended

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.
message
The explanation of the error that occurred.

Type: string
Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

Type: string
Required: False

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetAdministratorAccount
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Administrator Disassociation
The Administrator Disassociation resource provides access to the association between your Amazon Macie account and its Macie administrator account. If you joined an organization by accepting a Macie membership invitation, you can use this resource to disassociate your Macie account from its current Macie administrator account. For more information, see Managing your membership in an invitation-based organization in the Amazon Macie User Guide.

If you're the Macie administrator for an organization and you want to disassociate (remove) a member account from your organization, use the Member Disassociation (p. 387) resource instead of this resource.

URI
/administrator/disassociate
HTTP methods

POST

**Operation ID:** DisassociateFromAdministratorAccount

Disassociates a member account from its Amazon Macie administrator account.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 26)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 27)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 27)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 27)</td>
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<td>ThrottlingException (p. 27)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 27)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**Schemas**

**Response bodies**

Empty Schema schema

```json
{
}
```
ValidationException schema

```json
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
  "message": "string"
}
```

AccessDeniedException schema

```json
{
  "message": "string"
}
```

ResourceNotFoundException schema

```json
{
  "message": "string"
}
```

ConflictException schema

```json
{
  "message": "string"
}
```

ThrottlingException schema

```json
{
  "message": "string"
}
```

InternalServerException schema

```json
{
  "message": "string"
}
```

Properties

**AccessDeniedException**

Provides information about an error that occurred due to insufficient access to a specified resource.
message
The explanation of the error that occurred.

Type: string
Required: False

ConflictException
Provides information about an error that occurred due to a versioning conflict for a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

Empty
The request succeeded and there isn’t any content to include in the body of the response (No Content).

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn’t found.

message
The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

Type: string
ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string

Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string

Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DisassociateFromAdministratorAccount

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Allow List

The Allow List resource provides access to existing allow lists for your Amazon Macie account. In Macie, an allow list defines specific text or a text pattern that you want Macie to ignore when it inspects a data source for sensitive data. If data matches text or a text pattern in an allow list, Macie doesn't report the data. This is the case even if the data matches the criteria of a managed data identifier or a custom data
identifier. You can create and use allow lists in all the AWS Regions where Macie is currently available except the Asia Pacific (Osaka) Region.

Macie supports two types of allow lists. An allow list can be a line-delimited plaintext file that lists specific text to ignore. For this type of list (s3WordsList), you create the list by using a text editor, store the list in an Amazon Simple Storage Service (Amazon S3) bucket, and then configure settings for Macie to access the list in the bucket. Alternatively, an allow list can specify a regular expression (regex) that defines a text pattern to ignore. For this type of list (regex), you create and store the regex and all other list settings in Macie. For more information, see Defining sensitive data exceptions with allow lists in the Amazon Macie User Guide.

You can use the Allow List resource to retrieve detailed information about an allow list, including the current status of the list. If a list is stored in an S3 bucket, the list’s status indicates whether Macie can retrieve and parse the list. You can also use the Allow List resource to update the settings for an allow list or to delete an allow list from Macie.

To use this resource, you have to specify the unique identifier for the allow list that your request applies to. To find this identifier, use the Allow Lists (p. 42) resource.

**URI**

/allow-lists/id

**HTTP methods**

DELETE

**Operation ID:** DeleteAllowList

Deletes an allow list.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ignoreJobChecks</td>
<td>String</td>
<td>False</td>
<td>Specifies whether to force deletion of the allow list, even if active classification jobs are configured to use the list. When you try to delete an allow list, Amazon Macie checks for classification jobs that use the list and</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Required</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>have a status other than COMPLETE or CANCELLED. By default, Macie rejects your request if any jobs meet these criteria. To skip these checks and delete the list, set this value to true. To delete the list only if no active jobs are configured to use it, set this value to false.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 33)</td>
<td>The request succeeded. The allow list was deleted and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 34)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 34)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 34)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 34)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 34)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**GET**

**Operation ID:** GetAllowList

Retrieves the settings and status of an allow list.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie</td>
</tr>
</tbody>
</table>
### HTTP methods

#### PUT

**Operation ID:** UpdateAllowList

Updates the settings for an allow list.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>UpdateAllowListResponse (p. 33)</td>
<td>The request succeeded. The settings for the allow list were updated.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 34)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 34)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 34)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 34)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 34)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>
### Status code

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 34)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 34)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 34)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 34)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**PUT schema**

```json
{
    "criteria": {
        "regex": "string",
        "s3WordsList": {
            "bucketName": "string",
            "objectKey": "string"
        }
    },
    "description": "string",
    "name": "string"
}
```

#### Response bodies

**Empty Schema schema**

```json
{}
```

**GetAllowListResponse schema**

```json
{
    "arn": "string",
    "createdAt": "string",
    "criteria": {
        "regex": "string",
        "s3WordsList": {
            "bucketName": "string",
            "objectKey": "string"
        }
    }
}
```
Amazon Macie REST API Reference

Schemas

UpdateAllowListResponse schema

```
{
  "arn": "string",
  "id": "string"
}
```

ValidationException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
  "message": "string"
}
```

ResourceNotFoundException schema

```
{
  "message": "string"
}
```

ThrottlingException schema

```
{
  "message": "string"
}
```

InternalServerErrorException schema

```
{
  "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

AllowListCriteria

Specifies the criteria for an allow list. The criteria must specify a regular expression (regex) or an S3 object (s3WordsList). It can't specify both.

regex

The regular expression (regex) that defines the text pattern to ignore. The expression can contain as many as 512 characters.

Type: string
Required: False
Pattern: ^\[\s\S]+$  
MinLength: 1  
MaxLength: 512

s3WordsList

The location and name of the S3 object that lists specific text to ignore.

Type: S3WordsList (p. 39)  
Required: False

AllowListStatus

Provides information about the current status of an allow list, which indicates whether Amazon Macie can access and use the list's criteria.

code

The current status of the allow list. If the list's criteria specify a regular expression (regex), this value is typically OK. Amazon Macie can compile the expression.

If the list's criteria specify an S3 object, possible values are:

- OK - Macie can retrieve and parse the contents of the object.
- S3_OBJECT_ACCESS_DENIED - Macie isn't allowed to access the object or the object is encrypted with a customer managed AWS KMS key that Macie isn't allowed to use. Check the bucket policy and other permissions settings for the bucket and the object. If the object is encrypted, also ensure that it's encrypted with a key that Macie is allowed to use.
• **S3_OBJECT_EMPTY** - Macie can retrieve the object but the object doesn't contain any content. Ensure that the object contains the correct entries. Also ensure that the list's criteria specify the correct bucket and object names.

• **S3_OBJECT_NOT_FOUND** - The object doesn't exist in Amazon S3. Ensure that the list's criteria specify the correct bucket and object names.

• **S3_OBJECT_OVERSIZ**E - Macie can retrieve the object. However, the object contains too many entries or its storage size exceeds the quota for an allow list. Try breaking the list into multiple files and ensure that each file doesn't exceed any quotas. Then configure list settings in Macie for each file.

• **S3_THROTTLED** - Amazon S3 throttled the request to retrieve the object. Wait a few minutes and then try again.

• **S3_USER_ACCESS_DENIED** - Amazon S3 denied the request to retrieve the object. If the specified object exists, you're not allowed to access it or it's encrypted with an AWS KMS key that you're not allowed to use. Work with your AWS administrator to ensure that the list's criteria specify the correct bucket and object names, and you have read access to the bucket and the object. If the object is encrypted, also ensure that it's encrypted with a key that you're allowed to use.

• **UNKNOWN_ERROR** - A transient or internal error occurred when Macie attempted to retrieve or parse the object. Wait a few minutes and then try again. A list can also have this status if it's encrypted with a key that Amazon S3 and Macie can't access or use.

**Type:** AllowListStatusCode (p. 36)

**Required:** True

**description**

A brief description of the status of the allow list. Amazon Macie uses this value to provide additional information about an error that occurred when Macie tried to access and use the list's criteria.

**Type:** string

**Required:** False

**Pattern:** ^\[\s\S\]+$  

**MinLength:** 1  

**MaxLength:** 1024

**AllowListStatusCode**

Indicates the current status of an allow list. Depending on the type of criteria that the list specifies, possible values are:

OK  
S3_OBJECT_NOT_FOUND  
S3_USER_ACCESS_DENIED  
S3_OBJECT_ACCESS_DENIED  
S3_THROTTLED  
S3_OBJECT_OVERSIZE  
S3_OBJECT_EMPTY  
UNKNOWN_ERROR

**Empty**

The request succeeded and there isn't any content to include in the body of the response (No Content).
GetAllowListResponse

Provides information about the settings and status of an allow list.

arn

The Amazon Resource Name (ARN) of the allow list.

Type: string
Required: True
Pattern: ^arn:(aws|aws-cn|aws-us-gov):macie2:[a-z1-9-]{9,20}::\d{12}:allow-list\/[a-z0-9]{22}$
MinLength: 71
MaxLength: 89

createdAt

The date and time, in UTC and extended ISO 8601 format, when the allow list was created in Amazon Macie.

Type: string
Required: True
Format: date-time

criteria

The criteria that specify the text or text pattern to ignore. The criteria can be the location and name of an S3 object that lists specific text to ignore (s3WordsList), or a regular expression (regex) that defines a text pattern to ignore.

Type: AllowListCriteria (p. 35)
Required: False

description

The custom description of the allow list.

Type: string
Required: False
Pattern: ^\s*$
MinLength: 1
MaxLength: 512

id

The unique identifier for the allow list.

Type: string
Required: True
Pattern: ^[a-z0-9]{22}$
MinLength: 22
MaxLength: 22
name

The custom name of the allow list.

Type: string
Required: True
Pattern: ^\d+$
MinLength: 1
MaxLength: 128

status

The current status of the allow list, which indicates whether Amazon Macie can access and use the list's criteria.

Type: AllowListStatus (p. 35)
Required: False

tags

A map of key-value pairs that specifies which tags (keys and values) are associated with the allow list.

Type: TagMap (p. 39)
Required: False

updatedAt

The date and time, in UTC and extended ISO 8601 format, when the allow list's settings were most recently changed in Amazon Macie.

Type: string
Required: True
Format: date-time

InternalServerErrorException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
**Required**: False

**S3WordsList**

Provides information about an S3 object that lists specific text to ignore.

**bucketName**

The full name of the S3 bucket that contains the object.

- **Type**: string
- **Required**: True
- **Pattern**: `^[A-Za-z0-9.-_]{3,255}$`
- **MinLength**: 3
- **MaxLength**: 255

**objectKey**

The full name (key) of the object.

- **Type**: string
- **Required**: True
- **Pattern**: `^[\s\S]*+$`
- **MinLength**: 1
- **MaxLength**: 1024

**TagMap**

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

**key-value pairs**

- **Type**: string

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**UpdateAllowListRequest**

Changes the settings for an allow list. If you change the list's criteria, Amazon Macie tests the new criteria when it processes your request. If the criteria specify a regular expression that Macie can't compile or an S3 object that Macie can't retrieve or parse, an error occurs.
criteria

The criteria that specify the text or text pattern to ignore. The criteria can be the location and name of an S3 object that lists specific text to ignore (s3WordsList), or a regular expression that defines a text pattern to ignore (regex).

You can change a list's underlying criteria, such as the name of the S3 object or the regular expression to use. However, you can't change the type from `s3WordsList` to `regex` or the other way around.

Type: AllowListCriteria (p. 35)
Required: True

description

A custom description of the allow list. The description can contain as many as 512 characters.

Type: string
Required: False
Pattern: ^\[\s\S\]+$  
MinLength: 1  
MaxLength: 512

name

A custom name for the allow list. The name can contain as many as 128 characters.

Type: string
Required: True
Pattern: ^\.+$  
MinLength: 1  
MaxLength: 128

UpdateAllowListResponse

Provides information about an allow list whose settings were changed in response to a request.

arn

The Amazon Resource Name (ARN) of the allow list.

Type: string
Required: True
Pattern: ^arn:(aws|aws-cn|aws-us-gov):macie2:[a-z1-9-]\{9,20\}:\d\{12\}:allow-list \/[a-z0-9]\{22\}$  
MinLength: 71  
MaxLength: 89

id

The unique identifier for the allow list.

Type: string
Required: True
Pattern: ^[a-z0-9]\{22\}$
MinLength: 22
MaxLength: 22

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DeleteAllowList

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetAllowList

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateAllowList

- [AWS Command Line Interface](#)
Allow Lists

In Amazon Macie, an allow list defines specific text or a text pattern that you want Macie to ignore when it inspects a data source for sensitive data. If data matches text or a text pattern in an allow list, Macie doesn't report the data. This is the case even if the data matches the criteria of a managed data identifier or a custom data identifier. You can create and use allow lists in all the AWS Regions where Macie is currently available except the Asia Pacific (Osaka) Region.

Macie supports two types of allow lists:

- **Predefined text** - For this type of list (s3WordsList), you create a line-delimited plaintext file that lists specific text to ignore. You store the file in an Amazon Simple Storage Service (Amazon S3) bucket and then configure settings for Macie to access the list in the bucket.

  This type of list typically contains specific words, phrases, and other kinds of character sequences that aren't sensitive, aren't likely to change, and don't necessarily adhere to a common pattern. If you use this type of list, Macie doesn't report occurrences of text that exactly match a complete entry in the list. Macie treats each entry in the list as a string literal value. Matches aren't case sensitive.

- **Regular expression** - For this type of list (regex), you specify a regular expression that defines a text pattern to ignore. Unlike an allow list with predefined text, you create and store the regex and all other list settings in Macie.

  This type of list is helpful if you want to specify text that isn't sensitive but varies or is likely to change while also adhering to a common pattern. If you use this type of list, Macie doesn't report occurrences of text that completely match the pattern defined by the list.

For more information, see [Defining sensitive data exceptions with allow lists](https://docs.aws.amazon.com/macie/latest/userguide/defining-sensitive-data-exceptions-with-allow-lists.html) in the *Amazon Macie User Guide*.

You can use the Allow Lists resource to create an allow list or to retrieve a subset of information about all the existing allow lists for your account. To retrieve detailed information about the settings and status of an individual allow list, use the *Allow List* (p. 29) resource.

**URI**

/allow-lists

**HTTP methods**

**GET**

**Operation ID:** ListAllowLists
Retrieves a subset of information about all the allow lists for an account.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to return in a paginated response.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>The maximum number of items to include in each page of a paginated response.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListAllowListsResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**POST**

**Operation ID:** CreateAllowList

Creates and defines the settings for an allow list.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>CreateAllowListResponse</td>
<td>The request succeeded. The specified allow list was created.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>Status code</td>
<td>Response model</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 45)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 45)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 45)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 45)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 46)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**POST schema**

```json
{
   "clientToken": "string",
   "criteria": {
      "regex": "string",
      "s3WordsList": {
         "bucketName": "string",
         "objectKey": "string"
      }
   },
   "description": "string",
   "name": "string",
   "tags": {
   }
}
```

#### Response bodies

**ListAllowListsResponse schema**

```json
{
   "allowLists": [
      {
         "arn": "string",
         "createdAt": "string",
         "description": "string",
      }
   ]
}
```
CreateAllowListResponse schema

```json
{
  "arn": "string",
  "id": "string"
}
```

ValidationException schema

```json
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
  "message": "string"
}
```

AccessDeniedException schema

```json
{
  "message": "string"
}
```

ResourceNotFoundException schema

```json
{
  "message": "string"
}
```

ConflictException schema

```json
{
  "message": "string"
}
```

ThrottlingException schema

```json
{
  "message": "string"
}
```
InternalServerException schema
{
  "message": "string"
}

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

AllowListCriteria

Specifies the criteria for an allow list. The criteria must specify a regular expression (regex) or an S3 object (s3WordsList). It can't specify both.

regex

The regular expression (regex) that defines the text pattern to ignore. The expression can contain as many as 512 characters.

  Type: string
  Required: False
  Pattern: ^[^\s]+$
  MinLength: 1
  MaxLength: 512

s3WordsList

The location and name of the S3 object that lists specific text to ignore.

  Type: S3WordsList (p. 50)
  Required: False

AllowListSummary

Provides a subset of information about an allow list.

arn

The Amazon Resource Name (ARN) of the allow list.
Properties

Type: string  
Required: False
Pattern: ^arn:(aws|aws-cn|aws-us-gov):macie2:\[a-z1-9\]{9,20}::allow-list \[a-z0-9\]{22}$
MinLength: 71  
MaxLength: 89

createdAt

The date and time, in UTC and extended ISO 8601 format, when the allow list was created in Amazon Macie.

Type: string  
Required: False
Format: date-time

description

The custom description of the allow list.

Type: string  
Required: False
Pattern: ^[^\s]+$  
MinLength: 1  
MaxLength: 512

id

The unique identifier for the allow list.

Type: string  
Required: False
Pattern: ^[a-z0-9]{22}$  
MinLength: 22  
MaxLength: 22

name

The custom name of the allow list.

Type: string  
Required: False
Pattern: ^.+$  
MinLength: 1  
MaxLength: 128

updatedAt

The date and time, in UTC and extended ISO 8601 format, when the allow list's settings were most recently changed in Amazon Macie.

Type: string  
Required: False
Format: date-time

ConflictingException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

CreateAllowListRequest

Specifies the settings for an allow list. When Amazon Macie processes the request, Macie tests the list's criteria. If the criteria specify a regular expression that Macie can't compile or an S3 object that Macie can't retrieve or parse, an error occurs.

clientToken

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

Type: string
Required: True

criteria

The criteria that specify the text or text pattern to ignore. The criteria can be the location and name of an S3 object that lists specific text to ignore (s3WordsList), or a regular expression (regex) that defines a text pattern to ignore.

Type: AllowListCriteria (p. 46)
Required: True

description

A custom description of the allow list. The description can contain as many as 512 characters.

Type: string
Required: False
Pattern: ^[^\s\$]+$  
MinLength: 1  
MaxLength: 512

name

A custom name for the allow list. The name can contain as many as 128 characters.

Type: string
Required: True
Pattern: ^\.+$  
MinLength: 1
MaxLength: 128

tags
A map of key-value pairs that specifies the tags to associate with the allow list.

An allow list can have a maximum of 50 tags. Each tag consists of a tag key and an associated tag value. The maximum length of a tag key is 128 characters. The maximum length of a tag value is 256 characters.

Type: TagMap (p. 51)
Required: False

CreateAllowListResponse
Provides information about an allow list that was created in response to a request.

arn
The Amazon Resource Name (ARN) of the allow list.

Type: string
Required: True
Pattern: ^arn:(aws|aws-cn|aws-us-gov):macie2:[a-z1-9-][9,20]:\d{12}:allow-list\/[a-z0-9]{22}$
MinLength: 71
MaxLength: 89

id
The unique identifier for the allow list.

Type: string
Required: True
Pattern: ^[a-z0-9]{22}$
MinLength: 22
MaxLength: 22

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

ListAllowListsResponse
Provides the results of a request for information about allow lists.
allowLists
An array of objects, one for each allow list.

Type: Array of type AllowListSummary (p. 46)
Required: False

nextToken
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

Type: string
Required: False

S3WordsList
Provides information about an S3 object that lists specific text to ignore.

bucketName
The full name of the S3 bucket that contains the object.

Type: string
Required: True
Pattern: ^[A-Za-z0-9-9.\-_]{3,255}$
MinLength: 3
MaxLength: 255

objectKey
The full name (key) of the object.

Type: string
Required: True
Pattern: ^[\s\S]+$  
MinLength: 1
MaxLength: 1024

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.
**message**

The explanation of the error that occurred.

- **Type**: string
  - **Required**: False

**TagMap**

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

**key-value pairs**

- **Type**: string

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

- **Type**: string
  - **Required**: False

**ValidationException**

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.

- **Type**: string
  - **Required**: False

**See also**

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**ListAllowLists**

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
The Macie Administrator resource for AWS Organizations provides settings for designating the delegated Amazon Macie administrator account for an organization in AWS Organizations. AWS Organizations is a global account management service that enables AWS administrators to consolidate and centrally manage multiple AWS accounts. For more information about this service, see the AWS Organizations User Guide. For information about integrating Macie with AWS Organizations, see Managing Amazon Macie accounts with AWS Organizations in the Amazon Macie User Guide.

If you're a user of the AWS Organizations management account for an organization, you can use this resource to designate the delegated Macie administrator account for your organization. You can also use this resource to retrieve information about and change that designation. Note that an organization can have only one delegated Macie administrator account at a time. To use this resource, you must be a user of the AWS Organizations management account for your organization.

### URI

/admin

### HTTP methods

DELETE

**Operation ID:** DisableOrganizationAdminAccount

Disables an account as the delegated Amazon Macie administrator account for an organization in AWS Organizations.

#### Query parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>adminAccountId</td>
<td>String</td>
<td>True</td>
<td>The AWS account ID of the delegated Amazon Macie administrator account for an organization in AWS Organizations.</td>
</tr>
</tbody>
</table>
Amazon Macie REST API Reference

HTTP methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macie administrator</td>
<td>account</td>
<td></td>
<td>Macie administrator account.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 55)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 56)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 56)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 56)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 56)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 56)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 56)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**GET**

Operation ID: ListOrganizationAdminAccounts

Retrieves information about the delegated Amazon Macie administrator account for an organization in AWS Organizations.

Query parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to</td>
</tr>
</tbody>
</table>
## POST

**Operation ID:** EnableOrganizationAdminAccount

Designates an account as the delegated Amazon Macie administrator account for an organization in AWS Organizations.

### Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 55)</td>
<td>The request succeeded and there isn’t any content to include in</td>
</tr>
</tbody>
</table>
### Status codes

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>ValidationException (p. 56)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 56)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 56)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 56)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 56)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 56)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 56)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**POST schema**

```json
{
  "adminAccountId": "string",
  "clientToken": "string"
}
```

#### Response bodies

**Empty Schema schema**

```json
{
}
```

**ListOrganizationAdminAccountsResponse schema**

```json
{
}
```
"adminAccounts": [
  {
    "accountId": "string",
    "status": enum
  }
],
"nextToken": "string"

ValidationException schema

{
  "message": "string"
}

ServiceQuotaExceededException schema

{
  "message": "string"
}

AccessDeniedException schema

{
  "message": "string"
}

ResourceNotFoundException schema

{
  "message": "string"
}

ConflictException schema

{
  "message": "string"
}

ThrottlingException schema

{
  "message": "string"
}

InternalServerException schema

{ }
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

AdminAccount

Provides information about the delegated Amazon Macie administrator account for an organization in AWS Organizations.

accountId

The AWS account ID for the account.

Type: string
Required: False

status

The current status of the account as the delegated Amazon Macie administrator account for the organization.

Type: AdminStatus (p. 57)
Required: False

AdminStatus

The current status of an account as the delegated Amazon Macie administrator account for an organization in AWS Organizations. Possible values are:

ENABLED
DISABLING_IN_PROGRESS

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.
Empty

The request succeeded and there isn't any content to include in the body of the response (No Content).

EnableOrganizationAdminAccountRequest

Specifies an account to designate as the delegated Amazon Macie administrator account for an organization in AWS Organizations. To submit this request, you must be a user of the AWS Organizations management account.

adminAccountId

The AWS account ID for the account to designate as the delegated Amazon Macie administrator account for the organization.

Type: string  
Required: True

clientToken

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

Type: string  
Required: False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string  
Required: False

ListOrganizationAdminAccountsResponse

Provides information about the delegated Amazon Macie administrator accounts for an organization in AWS Organizations.

adminAccounts

An array of objects, one for each delegated Amazon Macie administrator account for the organization. Only one of these accounts can have a status of ENABLED.

Type: Array of type AdminAccount (p. 57)  
Required: False
nextToken

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string
Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False
See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**DisableOrganizationAdminAccount**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**ListOrganizationAdminAccounts**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**EnableOrganizationAdminAccount**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**AWS Organizations - Macie Configuration**

The Macie Configuration resource for AWS Organizations provides access to the Amazon Macie configuration settings for an organization in AWS Organizations. AWS Organizations is a global account
management service that enables AWS administrators to consolidate and centrally manage multiple AWS accounts. For more information about this service, see the AWS Organizations User Guide. For information about integrating Macie with AWS Organizations, see Managing Amazon Macie accounts with AWS Organizations in the Amazon Macie User Guide.

If you're the delegated Macie administrator for an organization in AWS Organizations, you can use this resource to retrieve information about and update the Macie configuration settings for your organization. This includes the setting that determines whether Macie is enabled automatically for new accounts when these accounts are added to your organization in AWS Organizations. To use this resource, you must be the delegated Macie administrator for an organization in AWS Organizations.

**URI**

/admin/configuration

**HTTP methods**

**GET**

**Operation ID:** DescribeOrganizationConfiguration

Retrieves the Amazon Macie configuration settings for an organization in AWS Organizations.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>DescribeOrganizationConfiguration</td>
<td>The request succeeded (p. 63)</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 63)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 63)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 63)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 63)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 63)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 63)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>
PATCH

Operation ID: UpdateOrganizationConfiguration

Updates the Amazon Macie configuration settings for an organization in AWS Organizations.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 63)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 63)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 63)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 63)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 63)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 63)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 63)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 63)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

PATCH schema

```
{
    "autoEnable": boolean
}
```

Response bodies
DescribeOrganizationConfigurationResponse schema

```json
{
   "autoEnable": boolean,
   "maxAccountLimitReached": boolean
}
```

Empty Schema schema

```json
{
}
```

ValidationException schema

```json
{
   "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
   "message": "string"
}
```

AccessDeniedException schema

```json
{
   "message": "string"
}
```

ResourceNotFoundException schema

```json
{
   "message": "string"
}
```

ConflictException schema

```json
{
   "message": "string"
}
```

ThrottlingException schema

```json
{
   "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**
The explanation of the error that occurred.

  * Type: string
  * Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**
The explanation of the error that occurred.

  * Type: string
  * Required: False

DescribeOrganizationConfigurationResponse

Provides information about the Amazon Macie configuration settings for an organization in AWS Organizations.

**autoEnable**
Specifies whether Amazon Macie is enabled automatically for accounts that are added to the organization.

  * Type: boolean
  * Required: False

**maxAccountLimitReached**
Specifies whether the maximum number of Amazon Macie member accounts are part of the organization.

  * Type: boolean
Required: False

Empty

The request succeeded and there isn't any content to include in the body of the response (No Content).

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ServiceQuotaExceedededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

  Type: string
  Required: False
**UpdateOrganizationConfigurationRequest**

Specifies whether to enable Amazon Macie automatically for accounts that are added to an organization in AWS Organizations.

**autoEnable**

Specifies whether to enable Amazon Macie automatically for an account when the account is added to the organization in AWS Organizations.

*Type:* boolean  
*Required:* True

**ValidationException**

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.

*Type:* string  
*Required:* False

**See also**

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**DescribeOrganizationConfiguration**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**UpdateOrganizationConfiguration**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
Automated Sensitive Data Discovery Configuration

The Automated Sensitive Data Discovery Configuration resource provides access to the configuration settings for performing automated sensitive data discovery for your account, and the status of the configuration. To configure and use automated sensitive data discovery, your account must be the Amazon Macie administrator account for an organization or a standalone Macie account.

If automated sensitive data discovery is enabled for your Macie account, Macie continually uses sampling techniques to identify and select representative objects from your Amazon Simple Storage Service (Amazon S3) buckets. Macie then retrieves and analyzes the selected objects, inspecting them for sensitive data. If your account is the Macie administrator account for an organization, this includes objects in S3 buckets that your member accounts own.

You can monitor and review analyses’ results in resource sensitivity profiles, statistical data, and other information that Macie produces and provides about your Amazon S3 data. These results are in addition to sensitive data findings, which report sensitive data that Macie finds in individual S3 objects, and sensitive data discovery results, which log details about the analysis of individual S3 objects. For more information, see Performing automated sensitive data discovery in the Amazon Macie User Guide.

To customize the analyses, you can change the automated sensitive data discovery configuration for your account. The configuration consists of a classification scope and a sensitivity inspection template. The classification scope specifies S3 buckets that you want to exclude from the analyses, such as buckets that typically store AWS logging data. The sensitivity inspection template specifies the allow lists, custom data identifiers, and managed data identifiers that you want Macie to use when it analyzes S3 objects. To change the configuration, use the Classification Scope (p. 135) and Sensitivity Inspection Template (p. 427) resources.

If you disable automated sensitive data discovery for your account, Macie retains your configuration settings. However, Macie stops performing all automated sensitive data discovery activities for your account. In addition, you lose access to all resource sensitivity profiles, statistical data, and other information that Macie produced and directly provided about your Amazon S3 data while performing those activities. This doesn't include sensitive data findings and discovery results. Macie stores your findings for 90 days, and you can continue to access your sensitive data discovery results in Amazon S3.

If you disable automated sensitive data discovery for your account, you can enable it again. Macie then resumes all automated sensitive data discovery activities for your account. If you re-enable it within 30 days, you regain access to resource sensitivity profiles, statistical data, and other information that Macie previously produced and directly provided while performing those activities. If you don't re-enable it within 30 days, Macie permanently deletes these profiles and the statistical data and other information that it produced and directly provided.

If you're the delegated Macie administrator for an organization or you have a standalone Macie account, you can use the Automated Sensitive Data Discovery Configuration resource to enable or disable automated sensitive data discovery for your account. You can also use this resource to retrieve your current configuration settings for performing automated sensitive data discovery, and the status of the configuration for your account.

**URI**

/automated-discovery/configuration
HTTP methods

GET

**Operation ID:** GetAutomatedDiscoveryConfiguration

Retrieves the configuration settings and status of automated sensitive data discovery for an account.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetAutomatedDiscoveryConfiguration</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

PUT

**Operation ID:** UpdateAutomatedDiscoveryConfiguration

Enables or disables automated sensitive data discovery for an account.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema</td>
<td>The request succeeded. The status of the automated sensitive data discovery configuration for the account was updated and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
</tbody>
</table>
Schemas

Request bodies

PUT schema

```
{
  "status": enum
}
```

Response bodies

GetAutomatedDiscoveryConfigurationResponse schema

```
{
  "classificationScopeId": "string",
  "disabledAt": "string",
  "firstEnabledAt": "string",
  "lastUpdatedAt": "string",
  "sensitivityInspectionTemplateId": "string",
  "status": enum
}
```

Empty Schema schema

```
{}
```

ValidationException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
  "message": "string"
}
```
ThrottlingException schema

```json
{
  "message": "string"
}
```

InternalServerException schema

```json
{
  "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

AutomatedDiscoveryStatus

The status of the automated sensitive data discovery configuration for an Amazon Macie account. Valid values are:

- ENABLED
- DISABLED

Empty

The request succeeded and there isn't any content to include in the body of the response (No Content).

GetAutomatedDiscoveryConfigurationResponse

Provides information about the configuration settings for performing automated sensitive data discovery for an Amazon Macie account, and the status of the configuration for the account.

**classificationScopeId**

The unique identifier for the classification scope that's used when performing automated sensitive data discovery for the account. The classification scope specifies S3 buckets to exclude from automated sensitive data discovery.

- **Type**: string
- **Required**: False
**disabledAt**

The date and time, in UTC and extended ISO 8601 format, when automated sensitive data discovery was most recently disabled for the account. This value is null if automated sensitive data discovery wasn't enabled and subsequently disabled for the account.

*Type*: string  
*Required*: False

**firstEnabledAt**

The date and time, in UTC and extended ISO 8601 format, when automated sensitive data discovery was initially enabled for the account. This value is null if automated sensitive data discovery has never been enabled for the account.

*Type*: string  
*Required*: False

**lastUpdatedAt**

The date and time, in UTC and extended ISO 8601 format, when automated sensitive data discovery was most recently enabled or disabled for the account.

*Type*: string  
*Required*: False

**sensitivityInspectionTemplateId**

The unique identifier for the sensitivity inspection template that's used when performing automated sensitive data discovery for the account. The template specifies which allow lists, custom data identifiers, and managed data identifiers to use when analyzing data.

*Type*: string  
*Required*: False

**status**

The current status of the automated sensitive data discovery configuration for the account. Possible values are: ENABLED, use the specified settings to perform automated sensitive data discovery activities for the account; and, DISABLED, don't perform automated sensitive data discovery activities for the account.

*Type*: `AutomatedDiscoveryStatus (p. 70)`  
*Required*: False

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

*Type*: string
Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

UpdateAutomatedDiscoveryConfigurationRequest

Enables or disables automated sensitive data discovery for an Amazon Macie account.

status

The new status of automated sensitive data discovery for the account. Valid values are: ENABLED, start or resume automated sensitive data discovery activities for the account; and, DISABLED, stop performing automated sensitive data discovery activities for the account.

When you enable automated sensitive data discovery for the first time, Amazon Macie uses default configuration settings to determine which data sources to analyze and which managed data identifiers to use. To change these settings, use the UpdateClassificationScope and UpdateSensitivityInspectionTemplate operations, respectively. If you change the settings and subsequently disable the configuration, Amazon Macie retains your changes.

Type: AutomatedDiscoveryStatus (p. 70)
Required: True

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetAutomatedDiscoveryConfiguration

- AWS Command Line Interface
- AWS SDK for .NET
The Classification Job resource provides detailed information about individual classification jobs for your Amazon Macie account. It also provides access to the status of each job. A classification job, also referred to as a sensitive data discovery job, is a job that you create to analyze objects in Amazon Simple Storage Service (Amazon S3) buckets and determine whether the objects contain sensitive data.

You can use this resource to pause, resume, or cancel a classification job, or retrieve detailed information about a classification job. To retrieve information about more than one classification job, use the Classification Job List (p. 114) resource.

**URI**

/jobs/jobId

**HTTP methods**

**GET**

**Operation ID:** DescribeClassificationJob

Retrieves the status and settings for a classification job.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jobId</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the classification job.</td>
</tr>
</tbody>
</table>
### Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>DescribeClassificationJobResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 78)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 78)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 78)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 78)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 78)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 78)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 78)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### PATCH

**Operation ID:** UpdateClassificationJob

Changes the status of a classification job.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jobId</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the classification job.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 78)</td>
<td>The request succeeded. The job's status was changed and there isn't any content to include in the body of the response (No Content).</td>
</tr>
</tbody>
</table>
Status code | Response model | Description
--- | --- | ---
400 | *ValidationException (p. 78)* | The request failed because the input doesn't satisfy the constraints specified by the service.
402 | *ServiceQuotaExceededException (p. 78)* | The request failed because fulfilling the request would exceed one or more service quotas for your account.
403 | *AccessDeniedException (p. 78)* | The request was denied because you don't have sufficient access to the specified resource.
404 | *ResourceNotFoundException (p. 78)* | The request failed because the specified resource wasn't found.
409 | *ConflictException (p. 78)* | The request failed because it conflicts with the current state of the specified resource.
429 | *ThrottlingException (p. 78)* | The request failed because you sent too many requests during a certain amount of time.
500 | *InternalServerException (p. 78)* | The request failed due to an unknown internal server error, exception, or failure.

### Schemas

#### Request bodies

**PATCH schema**

```json
{
  "jobStatus": enum
}
```

#### Response bodies

**DescribeClassificationJobResponse schema**

```json
[
  "allowListIds": [  
    "string"
  ],
  "clientToken": "string",
  "createdAt": "string",
  "customDataIdentifierIds": [  
    "string"
  ],
  "description": "string",
  "initialRun": boolean,
  "jobArn": "string",
```
Amazon Macie REST API Reference
Schemas

"jobId": "string",
"jobStatus": enum,
"jobType": enum,
"lastRunErrorStatus": {
  "code": enum
},
"lastRunTime": "string",
"managedDataIdentifierIds": [ "string" ],
"managedDataIdentifierSelector": enum,
"name": "string",
"s3JobDefinition": {
  "bucketCriteria": {
    "excludes": {
      "and": [
        "simpleCriterion": {
          "comparator": enum,
          "key": enum,
          "values": [ "string"
        }
      ],
      "tagCriterion": {
        "comparator": enum,
        "tagValues": [
          { "key": "string", "value": "string" }
        ]
      }
    },
    "includes": {
      "and": [
        { "simpleCriterion": { "comparator": enum, "key": enum, "values": [ "string" ] } },
        "tagCriterion": { "comparator": enum, "tagValues": [ { "key": "string", "value": "string" } ] } }
    ]
  }
},
"bucketDefinitions": [
  { "accountId": "string", "buckets": [ "string" ] }
]
"scoping": {
  "excludes": {
    "and": [
      {"simpleScopeTerm": {
        "comparator": enum,
        "key": enum,
        "values": [ "string" ]
      }},
      {"tagScopeTerm": {
        "comparator": enum,
        "key": "string",
        "tagValues": [
          {"key": "string",
           "value": "string"}
        ],
        "target": enum
      }},
    ],
  },
  "includes": {
    "and": [
      {"simpleScopeTerm": {
        "comparator": enum,
        "key": enum,
        "values": [ "string" ]
      }},
      {"tagScopeTerm": {
        "comparator": enum,
        "key": "string",
        "tagValues": [
          {"key": "string",
           "value": "string"}
        ],
        "target": enum
      }},
    ]
  }
},
"samplingPercentage": integer,
"scheduleFrequency": {
  "dailySchedule": {
  },
  "monthlySchedule": {
    "dayOfMonth": integer
  },
  "weeklySchedule": {
    "dayOfWeek": enum
  }
},
"statistics": {
  "approximateNumberOfObjectsToProcess": number,
  "numberOfRuns": number
},
  "tags": {
  },
  "userPausedDetails": {
    "jobExpiresAt": "string",
    "jobImminentExpirationHealthEventArn": "string",
    "jobPausedAt": "string"
  }
}

Empty Schema schema

{
}

ValidationException schema

{
  "message": "string"
}

ServiceQuotaExceedededException schema

{
  "message": "string"
}

AccessDeniedException schema

{
  "message": "string"
}

ResourceNotFoundException schema

{
  "message": "string"
}

ConflictingException schema

{
  "message": "string"
}

ThrottlingException schema

{
  "message": "string"
}
InternalServerException schema

```
{
  "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

CriteriaBlockForJob

Specifies one or more property- and tag-based conditions that define criteria for including or excluding S3 buckets from a classification job.

and

An array of conditions, one for each condition that determines which buckets to include or exclude from the job. If you specify more than one condition, Amazon Macie uses AND logic to join the conditions.

- **Type**: Array of type CriteriaForJob (p. 79)
- **Required**: False

CriteriaForJob

Specifies a property- or tag-based condition that defines criteria for including or excluding S3 buckets from a classification job.

simpleCriterion

A property-based condition that defines a property, operator, and one or more values for including or excluding buckets from the job.

- **Type**: SimpleCriterionForJob (p. 89)
Properties

Required: False

tagCriterion

A tag-based condition that defines an operator and tag keys, tag values, or tag key and value pairs for including or excluding buckets from the job.

Type: TagCriterionForJob (p. 91)
Required: False

DailySchedule

Specifies that a classification job runs once a day, every day. This is an empty object.

DescribeClassificationJobResponse

Provides information about a classification job, including the current configuration settings and status of the job.

allowListIds

An array of unique identifiers, one for each allow list that the job uses when it analyzes data.

Type: Array of type string
Required: False

clientToken

The token that was provided to ensure the idempotency of the request to create the job.

Type: string
Required: False

createdAt

The date and time, in UTC and extended ISO 8601 format, when the job was created.

Type: string
Required: False
Format: date-time

customDataIdentifierIds

An array of unique identifiers, one for each custom data identifier that the job uses when it analyzes data. This value is null if the job uses only managed data identifiers to analyze data.

Type: Array of type string
Required: False

description

The custom description of the job.

Type: string
Required: False
**initialRun**

For a recurring job, specifies whether you configured the job to analyze all existing, eligible objects immediately after the job was created (true). If you configured the job to analyze only those objects that were created or changed after the job was created and before the job's first scheduled run, this value is false. This value is also false for a one-time job.

*Type:* boolean  
*Required:* False

**jobArn**

The Amazon Resource Name (ARN) of the job.

*Type:* string  
*Required:* False

**jobId**

The unique identifier for the job.

*Type:* string  
*Required:* False

**jobStatus**

The current status of the job. Possible values are:

- **CANCELLED** - You cancelled the job or, if it's a one-time job, you paused the job and didn't resume it within 30 days.
- **COMPLETE** - For a one-time job, Amazon Macie finished processing the data specified for the job. This value doesn't apply to recurring jobs.
- **IDLE** - For a recurring job, the previous scheduled run is complete and the next scheduled run is pending. This value doesn't apply to one-time jobs.
- **PAUSED** - Macie started running the job but additional processing would exceed the monthly sensitive data discovery quota for your account or one or more member accounts that the job analyzes data for.
- **RUNNING** - For a one-time job, the job is in progress. For a recurring job, a scheduled run is in progress.
- **USER_PAUSED** - You paused the job. If you paused the job while it had a status of RUNNING and you don't resume it within 30 days of pausing it, the job or job run will expire and be cancelled, depending on the job's type. To check the expiration date, refer to the UserPausedDetails.jobExpiresAt property.

*Type:* JobStatus (p. 85)  
*Required:* False

**jobType**

The schedule for running the job. Possible values are:

- **ONE_TIME** - The job runs only once.
- **SCHEDULED** - The job runs on a daily, weekly, or monthly basis. The scheduleFrequency property indicates the recurrence pattern for the job.
**Properties**

**Type**: `JobType (p. 85)`
**Required**: False

**lastRunErrorStatus**

Specifies whether any account- or bucket-level access errors occurred when the job ran. For a recurring job, this value indicates the error status of the job’s most recent run.

**Type**: `LastRunErrorStatus (p. 86)`
**Required**: False

**lastRunTime**

The date and time, in UTC and extended ISO 8601 format, when the job started. If the job is a recurring job, this value indicates when the most recent run started or, if the job hasn’t run yet, when the job was created.

**Type**: string
**Required**: False
**Format**: date-time

**managedDataIdentifierIds**

An array of unique identifiers, one for each managed data identifier that the job is explicitly configured to include (use) or exclude (not use) when it analyzes data. Inclusion or exclusion depends on the managed data identifier selection type specified for the job (`managedDataIdentifierSelector`).

This value is null if the job’s managed data identifier selection type is `ALL`, `NONE`, or `RECOMMENDED`.

**Type**: Array of type string
**Required**: False

**managedDataIdentifierSelector**

The selection type that determines which managed data identifiers the job uses when it analyzes data. Possible values are:

- **ALL** - Use all managed data identifiers.
- **EXCLUDE** - Use all managed data identifiers except the ones specified by the `managedDataIdentifierIds` property.
- **INCLUDE** - Use only the managed data identifiers specified by the `managedDataIdentifierIds` property.
- **NONE** - Don't use any managed data identifiers. Use only custom data identifiers (`customDataIdentifierIds`).
- **RECOMMENDED** (default) - Use the recommended set of managed data identifiers.

If this value is null, the job uses the recommended set of managed data identifiers.

If the job is a recurring job and this value is `ALL` or `EXCLUDE`, each job run automatically uses new managed data identifiers that are released. If this value is null or `RECOMMENDED` for a recurring job, each job run uses all the managed data identifiers that are in the recommended set when the run starts.

For information about individual managed data identifiers or to determine which ones are in the recommended set, see [Using managed data identifiers](#) and [Recommended managed data identifiers](#) in the Amazon Macie User Guide.

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**Type:** ManagedDataIdentifierSelector (p. 86)  
**Required:** False

**name**
The custom name of the job.

**Type:** string  
**Required:** False

**s3JobDefinition**
The S3 buckets that contain the objects to analyze, and the scope of that analysis.

**Type:** S3JobDefinition (p. 88)  
**Required:** False

**samplingPercentage**
The sampling depth, as a percentage, that determines the percentage of eligible objects that the job analyzes.

**Type:** integer  
**Required:** False  
**Format:** int32

**scheduleFrequency**
The recurrence pattern for running the job. This value is null if the job is configured to run only once.

**Type:** JobScheduleFrequency (p. 84)  
**Required:** False

**statistics**
The number of times that the job has run and processing statistics for the job's current run.

**Type:** Statistics (p. 91)  
**Required:** False

**tags**
A map of key-value pairs that specifies which tags (keys and values) are associated with the classification job.

**Type:** TagMap (p. 92)  
**Required:** False

**userPausedDetails**
If the current status of the job is USER_PAUSED, specifies when the job was paused and when the job or job run will expire and be cancelled if it isn't resumed. This value is present only if the value for jobStatus is USER_PAUSED.

**Type:** UserPausedDetails (p. 94)
Required: False

Empty
The request succeeded and there isn't any content to include in the body of the response (No Content).

InternalServerErrorException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

  Type: string
  Required: False

JobComparator
The operator to use in a condition. Depending on the type of condition, possible values are:

  EQ
  GT
  GTE
  LT
  LTE
  NE
  CONTAINS
  STARTS_WITH

JobScheduleFrequency
Specifies the recurrence pattern for running a classification job.

dailySchedule
Specifies a daily recurrence pattern for running the job.

  Type: DailySchedule (p. 80)
  Required: False

monthlySchedule
Specifies a monthly recurrence pattern for running the job.

  Type: MonthlySchedule (p. 86)
  Required: False

weeklySchedule
Specifies a weekly recurrence pattern for running the job.
JobScopeTerm

Specifies a property- or tag-based condition that defines criteria for including or excluding S3 objects from a classification job. A JobScopeTerm object can contain only one simpleScopeTerm object or one tagScopeTerm object.

simpleScopeTerm

A property-based condition that defines a property, operator, and one or more values for including or excluding objects from the job.

    Type: SimpleScopeTerm (p. 90)
    Required: False

tagScopeTerm

A tag-based condition that defines the operator and tag keys or tag key and value pairs for including or excluding objects from the job.

    Type: TagScopeTerm (p. 92)
    Required: False

JobScopingBlock

Specifies one or more property- and tag-based conditions that define criteria for including or excluding S3 objects from a classification job.

and

An array of conditions, one for each property- or tag-based condition that determines which objects to include or exclude from the job. If you specify more than one condition, Amazon Macie uses AND logic to join the conditions.

    Type: Array of type JobScopeTerm (p. 85)
    Required: False

JobStatus

The status of a classification job. Possible values are:

    RUNNING
    PAUSED
    CANCELLED
    COMPLETE
    IDLE
    USER_PAUSED

JobType

The schedule for running a classification job. Valid values are:
## LastRunErrorStatus

Specifies whether any account- or bucket-level access errors occurred when a classification job ran. For information about using logging data to investigate these errors, see Monitoring sensitive data discovery jobs in the Amazon Macie User Guide.

### code

Specifies whether any account- or bucket-level access errors occurred when the job ran. For a recurring job, this value indicates the error status of the job's most recent run. Possible values are:

- **ERROR** - One or more errors occurred. Amazon Macie didn't process all the data specified for the job.
- **NONE** - No errors occurred. Macie processed all the data specified for the job.

**Type:** LastRunErrorStatusCode (p. 86)

**Required:** False

## LastRunErrorStatusCode

Specifies whether any account- or bucket-level access errors occurred during the run of a one-time classification job or the most recent run of a recurring classification job. Possible values are:

- **NONE**
- **ERROR**

## ManagedDataIdentifierSelector

The selection type that determines which managed data identifiers a classification job uses to analyze data. Valid values are:

- **ALL**
- **EXCLUDE**
- **INCLUDE**
- **NONE**
- **RECOMMENDED**

## MonthlySchedule

Specifies a monthly recurrence pattern for running a classification job.

### dayOfMonth

The numeric day of the month when Amazon Macie runs the job. This value can be an integer from 1 through 31.

If this value exceeds the number of days in a certain month, Macie doesn't run the job that month. Macie runs the job only during months that have the specified day. For example, if this value is 31 and a month has only 30 days, Macie doesn't run the job that month. To run the job every month, specify a value that's less than 29.
**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

**S3BucketCriteriaForJob**

Specifies property- and tag-based conditions that define criteria for including or excluding S3 buckets from a classification job. Exclude conditions take precedence over include conditions.

**excludes**

The property- and tag-based conditions that determine which buckets to exclude from the job.

**Includes**

The property- and tag-based conditions that determine which buckets to include in the job.

**S3BucketDefinitionForJob**

Specifies an AWS account that owns S3 buckets for a classification job to analyze, and one or more specific buckets to analyze for that account.

**accountld**

The unique identifier for the AWS account that owns the buckets.

**buckets**

An array that lists the names of the buckets.
**S3JobDefinition**

Specifies which S3 buckets contain the objects that a classification job analyzes, and the scope of that analysis. The bucket specification can be static (bucketDefinitions) or dynamic (bucketCriteria). If it's static, the job analyzes objects in the same predefined set of buckets each time the job runs. If it's dynamic, the job analyzes objects in any buckets that match the specified criteria each time the job starts to run.

**bucketCriteria**

The property- and tag-based conditions that determine which S3 buckets to include or exclude from the analysis. Each time the job runs, the job uses these criteria to determine which buckets contain objects to analyze. A job's definition can contain a bucketCriteria object or a bucketDefinitions array, not both.

*Type:* S3BucketCriteriaForJob (p. 87)

*Required:* False

**bucketDefinitions**

An array of objects, one for each AWS account that owns specific S3 buckets to analyze. Each object specifies the account ID for an account and one or more buckets to analyze for that account. A job's definition can contain a bucketDefinitions array or a bucketCriteria object, not both.

*Type:* Array of type S3BucketDefinitionForJob (p. 87)

*Required:* False

**scoping**

The property- and tag-based conditions that determine which S3 objects to include or exclude from the analysis. Each time the job runs, the job uses these criteria to determine which objects to analyze.

*Type:* Scoping (p. 88)

*Required:* False

**ScopeFilterKey**

The property to use in a condition that determines whether an S3 object is included or excluded from a classification job. Valid values are:

- OBJECT_EXTENSION
- OBJECT_LAST_MODIFIED_DATE
- OBJECT_SIZE
- OBJECT_KEY

**Scoping**

Specifies one or more property- and tag-based conditions that define criteria for including or excluding S3 objects from a classification job. Exclude conditions take precedence over include conditions.

**excludes**

The property- and tag-based conditions that determine which objects to exclude from the analysis.

*Type:* JobScopingBlock (p. 85)
Required: False

includes
The property- and tag-based conditions that determine which objects to include in the analysis.

Type: JobScopingBlock (p. 85)
Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

Type: string
Required: False

SimpleCriterionForJob
Specifies a property-based condition that determines whether an S3 bucket is included or excluded from a classification job.

comparator
The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

Type: JobComparator (p. 84)
Required: False

key
The property to use in the condition.

Type: SimpleCriterionKeyForJob (p. 90)
Required: False

values
An array that lists one or more values to use in the condition. If you specify multiple values, Amazon Macie uses OR logic to join the values. Valid values for each supported property (key) are:

- ACCOUNT_ID - A string that represents the unique identifier for the AWS account that owns the bucket.
- S3_BUCKET_EFFECTIVE_PERMISSION - A string that represents an enumerated value that Macie defines for the BucketPublicAccess.effectivePermission property of a bucket.
- S3_BUCKET_NAME - A string that represents the name of a bucket.
- S3_BUCKET_SHARED_ACCESS - A string that represents an enumerated value that Macie defines for the BucketMetadata.sharedAccess property of a bucket.

Values are case sensitive. Also, Macie doesn't support use of partial values or wildcard characters in these values.
**Type:** Array of type string  
**Required:** False

**SimpleCriterionKeyForJob**

The property to use in a condition that determines whether an S3 bucket is included or excluded from a classification job. Valid values are:

- ACCOUNT_ID
- S3_BUCKET_NAME
- S3_BUCKET_EFFECTIVE_PERMISSION
- S3_BUCKET_SHARED_ACCESS

**SimpleScopeTerm**

Specifies a property-based condition that determines whether an S3 object is included or excluded from a classification job.

**comparator**

The operator to use in the condition. Valid values for each supported property (key) are:

- **OBJECT_EXTENSION** - EQ (equals) or NE (not equals)
- **OBJECT_KEY** - STARTS_WITH
- **OBJECT_LAST_MODIFIED_DATE** - EQ (equals), GT (greater than), GTE (greater than or equals), LT (less than), LTE (less than or equals), or NE (not equals)
- **OBJECT_SIZE** - EQ (equals), GT (greater than), GTE (greater than or equals), LT (less than), LTE (less than or equals), or NE (not equals)

**Type:** JobComparator (p. 84)  
**Required:** False

**key**

The object property to use in the condition.

**Type:** ScopeFilterKey (p. 88)  
**Required:** False

**values**

An array that lists the values to use in the condition. If the value for the key property is OBJECT_EXTENSION or OBJECT_KEY, this array can specify multiple values and Amazon Macie uses OR logic to join the values. Otherwise, this array can specify only one value.

Valid values for each supported property (key) are:

- **OBJECT_EXTENSION** - A string that represents the file name extension of an object. For example: docx or pdf
- **OBJECT_KEY** - A string that represents the key prefix (folder name or path) of an object. For example: logs or awslogs/eventlogs. This value applies a condition to objects whose keys (names) begin with the specified value.
• **OBJECT_LAST_MODIFIED_DATE** - The date and time (in UTC and extended ISO 8601 format) when an object was created or last changed, whichever is latest. For example: 2023-09-24T14:31:13Z

• **OBJECT_SIZE** - An integer that represents the storage size (in bytes) of an object.

Macie doesn't support use of wildcard characters in these values. Also, string values are case sensitive.

  **Type**: Array of type string  
  **Required**: False

### Statistics

Provides processing statistics for a classification job.

#### approximateNumberOfObjectsToProcess

The approximate number of objects that the job has yet to process during its current run.

  **Type**: number  
  **Required**: False

#### numberOfRuns

The number of times that the job has run.

  **Type**: number  
  **Required**: False

### TagCriterionForJob

Specifies a tag-based condition that determines whether an S3 bucket is included or excluded from a classification job.

#### comparator

The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

  **Type**: [JobComparator](p. 84)  
  **Required**: False

#### tagValues

The tag keys, tag values, or tag key and value pairs to use in the condition.

  **Type**: Array of type [TagCriterionPairForJob](p. 91)  
  **Required**: False

### TagCriterionPairForJob

Specifies a tag key, a tag value, or a tag key and value (as a pair) to use in a tag-based condition that determines whether an S3 bucket is included or excluded from a classification job. Tag keys and values are case sensitive. Also, Amazon Macie doesn't support use of partial values or wildcard characters in tag-based conditions.
key
The value for the tag key to use in the condition.

  Type: string
  Required: False

value
The tag value to use in the condition.

  Type: string
  Required: False

TagMap
A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

key-value pairs
  Type: string

TagScopeTerm
Specifies a tag-based condition that determines whether an S3 object is included or excluded from a classification job.

comparator
The operator to use in the condition. Valid values are EQ (equals) or NE (not equals).

  Type: JobComparator (p. 84)
  Required: False

key
The object property to use in the condition. The only valid value is TAG.

  Type: string
  Required: False

tagValues
The tag keys or tag key and value pairs to use in the condition. To specify only tag keys in a condition, specify the keys in this array and set the value for each associated tag value to an empty string.

  Type: Array of type TagValuePair (p. 93)
  Required: False

target
The type of object to apply the condition to.

  Type: TagTarget (p. 93)
Required: False

TagTarget
The type of object to apply a tag-based condition to. Valid values are:

S3_OBJECT

TagValuePair
Specifies a tag key or tag key and value pair to use in a tag-based condition that determines whether an
S3 object is included or excluded from a classification job. Tag keys and values are case sensitive. Also,
Amazon Macie doesn't support use of partial values or wildcard characters in tag-based conditions.

key
The value for the tag key to use in the condition.

Type: string
Required: False

value
The tag value, associated with the specified tag key (key), to use in the condition. To specify only a tag
key for a condition, specify the tag key for the key property and set this value to an empty string.

Type: string
Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain
amount of time.

message
The explanation of the error that occurred.

Type: string
Required: False

UpdateClassificationJobRequest
Changes the status of a classification job. For more information about pausing, resuming, or cancelling
jobs, see Managing sensitive data discovery jobs in the Amazon Macie User Guide.

jobStatus
The new status for the job. Valid values are:

- CANCELLED - Stops the job permanently and cancels it. This value is valid only if the job's current
  status is IDLE, PAUSED, RUNNING, or USER_PAUSED.

  If you specify this value and the job's current status is RUNNING, Amazon Macie immediately begins to
  stop all processing tasks for the job. You can't resume or restart a job after you cancel it.
RUNNING - Resumes the job. This value is valid only if the job's current status is USER_PAUSED.

If you paused the job while it was actively running and you specify this value less than 30 days after you paused the job, Macie immediately resumes processing from the point where you paused the job. Otherwise, Macie resumes the job according to the schedule and other settings for the job.

USER_PAUSED - Pauses the job temporarily. This value is valid only if the job's current status is IDLE, PAUSED, or RUNNING. If you specify this value and the job's current status is RUNNING, Macie immediately begins to pause all processing tasks for the job.

If you pause a one-time job and you don't resume it within 30 days, the job expires and Macie cancels the job. If you pause a recurring job when its status is RUNNING and you don't resume it within 30 days, the job run expires and Macie cancels the run. To check the expiration date, refer to the UserPausedDetails.jobExpiresAt property.

Type: JobStatus (p. 85)
Required: True

UserPausedDetails

Provides information about when a classification job was paused. For a one-time job, this object also specifies when the job will expire and be cancelled if it isn't resumed. For a recurring job, this object also specifies when the paused job run will expire and be cancelled if it isn't resumed. This object is present only if a job's current status (jobStatus) is USER_PAUSED. The information in this object applies only to a job that was paused while it had a status of RUNNING.

jobExpiresAt

The date and time, in UTC and extended ISO 8601 format, when the job or job run will expire and be cancelled if you don't resume it first.

Type: string
Required: False
Format: date-time

jobImminentExpirationHealthEventArn

The Amazon Resource Name (ARN) of the AWS Health event that Amazon Macie sent to notify you of the job or job run's pending expiration and cancellation. This value is null if a job has been paused for less than 23 days.

Type: string
Required: False

jobPausedAt

The date and time, in UTC and extended ISO 8601 format, when you paused the job.

Type: string
Required: False
Format: date-time

ValidationException

Provides information about an error that occurred due to a syntax error in a request.
message

The explanation of the error that occurred.

Type: string
Required: False

WeeklySchedule

Specifies a weekly recurrence pattern for running a classification job.

dayOfWeek

The day of the week when Amazon Macie runs the job.

Type: string
Required: False

Values: SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DescribeClassificationJob

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateClassificationJob

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)
Classification Job Creation

The Classification Job Creation resource represents the collection of settings that define the scope and schedule for a classification job. A classification job, also referred to as a sensitive data discovery job, is a job that you create to analyze objects in Amazon Simple Storage Service (Amazon S3) buckets and determine whether the objects contain sensitive data. To detect sensitive data, a job can use managed data identifiers (p. 368) that Amazon Macie provides, custom data identifiers (p. 155) that you define, or a combination of the two.

When you create a classification job, you can configure it to address specific scenarios. For example, you can use property- and tag-based conditions to perform targeted analysis of S3 buckets and objects that match specific criteria. You can also define a schedule for running the job on a recurring basis, such as every day or a specific day of each week or month. This can be helpful if you want to align your analysis with periodic updates to bucket objects or monitor buckets for the presence of sensitive data. In addition to these settings, you can configure a job to use one or more allow lists (p. 42). Allow lists define specific text or text patterns that you want Macie to ignore when it analyzes objects. You can create and use allow lists in all the AWS Regions where Macie is currently available except the Asia Pacific (Osaka) Region. For more information about creating and configuring jobs, see Running sensitive data discovery jobs in the Amazon Macie User Guide.

You can use the Classification Job Creation resource to create and define the settings for a classification job. Note that you can't change any settings for a job after you create it. This helps to ensure that you have an immutable history of sensitive data findings and discovery results for data privacy and protection audits or investigations that you perform.

**URI**

/jobs

**HTTP methods**

POST

**Operation ID:** CreateClassificationJob

Creates and defines the settings for a classification job.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>CreateClassificationJobResponse</td>
<td>The request succeeded. The specified job was created.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 99)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 99)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
</tbody>
</table>
### Status code

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 100)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 100)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 100)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**POST schema**

```json
{
    "allowListIds": [ "string" ],
    "clientToken": "string",
    "customDataIdentifierIds": [ "string" ],
    "description": "string",
    "initialRun": boolean,
    "jobType": enum,
    "managedDataIdentifierIds": [ "string" ],
    "managedDataIdentifierSelector": enum,
    "name": "string",
    "s3JobDefinition": {
        "bucketCriteria": {
            "and": [ {
                "simpleCriterion": {
                    "comparator": enum,
                    "key": enum,
                    "values": [ "string" ]
                },
                "tagCriterion": {
                    "comparator": enum,
                    "tagValues": [ {
                        "key": "string",
                        "value": "string"
                    } ]
                }
            } ]
        }
    }
}
```
"includes": {
"and": [
{
"simpleCriterion": {
"comparator": enum,
"key": enum,
"values": [
"string"
]
},
"tagCriterion": {
"comparator": enum,
"tagValues": [
{
"key": "string",
"value": "string"
}
]
}
}
],
"bucketDefinitions": [
{
"accountId": "string",
"buckets": [
"string"
]
}
],
"scoping": {
"excludes": {
"and": [
{
"simpleScopeTerm": {
"comparator": enum,
"key": enum,
"values": [
"string"
]
},
"tagScopeTerm": {
"comparator": enum,
"key": "string",
"tagValues": [
{
"key": "string",
"value": "string"
}
],
"target": enum
}
}
],
"includes": {
"and": [
{
"simpleScopeTerm": {
"comparator": enum,
"key": enum,
"values": [
"string"
]
}
]
"string",
],[
"tagScopeTerm": {
  "comparator": enum,
  "key": "string",
  "TagValues": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "target": enum
}
},
"samplingPercentage": integer,
"scheduleFrequency": {
  "dailySchedule": {},
  "monthlySchedule": {
    "dayOfMonth": integer
  },
  "weeklySchedule": {
    "dayOfWeek": enum
  }
},
"tags": {
}
}

Response bodies

CreateClassificationJobResponse schema

{
  "jobArn": "string",
  "jobId": "string"
}

ValidationException schema

{
  "message": "string"
}

ServiceQuotaExceededException schema

{
  "message": "string"
}

AccessDeniedException schema

{
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
CreateClassificationJobRequest

Specifies the scope, schedule, and other settings for a classification job. You can't change any settings for a classification job after you create it. This helps to ensure that you have an immutable history of sensitive data findings and discovery results for data privacy and protection audits or investigations.

**allowListIds**

An array of unique identifiers, one for each allow list for the job to use when it analyzes data.

`Type`: Array of type string  
`Required`: False

**clientToken**

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

`Type`: string  
`Required`: True

**customDataIdentifierIds**

An array of unique identifiers, one for each custom data identifier for the job to use when it analyzes data. To use only managed data identifiers, don't specify a value for this property and specify a value other than `NONE` for the managedDataIdentifierSelector property.

`Type`: Array of type string  
`Required`: False

**description**

A custom description of the job. The description can contain as many as 200 characters.

`Type`: string  
`Required`: False

**initialRun**

For a recurring job, specifies whether to analyze all existing, eligible objects immediately after the job is created (`true`). To analyze only those objects that are created or changed after you create the job and before the job's first scheduled run, set this value to `false`.

If you configure the job to run only once, don't specify a value for this property.

`Type`: boolean  
`Required`: False

**jobType**

The schedule for running the job. Valid values are:

- `ONE_TIME` - Run the job only once. If you specify this value, don't specify a value for the scheduleFrequency property.
• SCHEDULED - Run the job on a daily, weekly, or monthly basis. If you specify this value, use the scheduleFrequency property to define the recurrence pattern for the job.

**Type:** JobType (p. 106)
**Required:** True

**managedDataIdentifierIds**

An array of unique identifiers, one for each managed data identifier for the job to include (use) or exclude (not use) when it analyzes data. Inclusion or exclusion depends on the managed data identifier selection type that you specify for the job (managedDataIdentifierSelector).

To retrieve a list of valid values for this property, use the ListManagedDataIdentifiers operation.

**Type:** Array of type string
**Required:** False

**managedDataIdentifierSelector**

The selection type to apply when determining which managed data identifiers the job uses to analyze data. Valid values are:

• ALL - Use all managed data identifiers. If you specify this value, don't specify any values for the managedDataIdentifierIds property.
• EXCLUDE - Use all managed data identifiers except the ones specified by the managedDataIdentifierIds property.
• INCLUDE - Use only the managed data identifiers specified by the managedDataIdentifierIds property.
• NONE - Don't use any managed data identifiers. If you specify this value, specify at least one value for the customDataIdentifierIds property and don't specify any values for the managedDataIdentifierIds property.
• RECOMMENDED (default) - Use the recommended set of managed data identifiers. If you specify this value, don't specify any values for the managedDataIdentifierIds property.

If you don't specify a value for this property, the job uses the recommended set of managed data identifiers.

If the job is a recurring job and you specify ALL or EXCLUDE, each job run automatically uses new managed data identifiers that are released. If you don't specify a value for this property or you specify RECOMMENDED for a recurring job, each job run automatically uses all the managed data identifiers that are in the recommended set when the run starts.

For information about individual managed data identifiers or to determine which ones are in the recommended set, see Using managed data identifiers and Recommended managed data identifiers in the Amazon Macie User Guide.

**Type:** ManagedDataIdentifierSelector (p. 106)
**Required:** False

**name**

A custom name for the job. The name can contain as many as 500 characters.

**Type:** string
Required: True

s3JobDefinition
The S3 buckets that contain the objects to analyze, and the scope of that analysis.

  Type: S3JobDefinition (p. 107)
  Required: True

samplingPercentage
The sampling depth, as a percentage, for the job to apply when processing objects. This value determines the percentage of eligible objects that the job analyzes. If this value is less than 100, Amazon Macie selects the objects to analyze at random, up to the specified percentage, and analyzes all the data in those objects.

  Type: integer
  Required: False
  Format: int32

scheduleFrequency
The recurrence pattern for running the job. To run the job only once, don't specify a value for this property and set the value for the jobType property to ONE_TIME.

  Type: JobScheduleFrequency (p. 105)
  Required: False

tags
A map of key-value pairs that specifies the tags to associate with the job. A job can have a maximum of 50 tags. Each tag consists of a tag key and an associated tag value. The maximum length of a tag key is 128 characters. The maximum length of a tag value is 256 characters.

  Type: TagMap (p. 111)
  Required: False

CreateClassificationJobResponse
Provides information about a classification job that was created in response to a request.

jobArn
The Amazon Resource Name (ARN) of the job.

  Type: string
  Required: False

jobId
The unique identifier for the job.

  Type: string
  Required: False
CriteriaBlockForJob

Specifies one or more property- and tag-based conditions that define criteria for including or excluding S3 buckets from a classification job.

and

An array of conditions, one for each condition that determines which buckets to include or exclude from the job. If you specify more than one condition, Amazon Macie uses AND logic to join the conditions.

Type: Array of type CriteriaForJob (p. 104)
Required: False

CriteriaForJob

Specifies a property- or tag-based condition that defines criteria for including or excluding S3 buckets from a classification job.

simpleCriterion

A property-based condition that defines a property, operator, and one or more values for including or excluding buckets from the job.

Type: SimpleCriterionForJob (p. 109)
Required: False

tagCriterion

A tag-based condition that defines an operator and tag keys, tag values, or tag key and value pairs for including or excluding buckets from the job.

Type: TagCriterionForJob (p. 111)
Required: False

DailySchedule

Specifies that a classification job runs once a day, every day. This is an empty object.

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

JobComparator

The operator to use in a condition. Depending on the type of condition, possible values are:
JobScheduleFrequency

Specifies the recurrence pattern for running a classification job.

**dailySchedule**

Specifies a daily recurrence pattern for running the job.

Type: DailySchedule (p. 104)
Required: False

**monthlySchedule**

Specifies a monthly recurrence pattern for running the job.

Type: MonthlySchedule (p. 106)
Required: False

**weeklySchedule**

Specifies a weekly recurrence pattern for running the job.

Type: WeeklySchedule (p. 113)
Required: False

JobScopeTerm

Specifies a property- or tag-based condition that defines criteria for including or excluding S3 objects from a classification job. A JobScopeTerm object can contain only one simpleScopeTerm object or one tagScopeTerm object.

**simpleScopeTerm**

A property-based condition that defines a property, operator, and one or more values for including or excluding objects from the job.

Type: SimpleScopeTerm (p. 110)
Required: False

**tagScopeTerm**

A tag-based condition that defines the operator and tag keys or tag key and value pairs for including or excluding objects from the job.

Type: TagScopeTerm (p. 111)
Required: False
JobScopingBlock

Specifies one or more property- and tag-based conditions that define criteria for including or excluding S3 objects from a classification job.

and

An array of conditions, one for each property- or tag-based condition that determines which objects to include or exclude from the job. If you specify more than one condition, Amazon Macie uses AND logic to join the conditions.

Type: Array of type JobScopeTerm (p. 105)
Required: False

JobType

The schedule for running a classification job. Valid values are:

ONE_TIME
SCHEDULED

ManagedDataIdentifierSelector

The selection type that determines which managed data identifiers a classification job uses to analyze data. Valid values are:

ALL
EXCLUDE
INCLUDE
NONE
RECOMMENDED

MonthlySchedule

Specifies a monthly recurrence pattern for running a classification job.

dayOfMonth

The numeric day of the month when Amazon Macie runs the job. This value can be an integer from 1 through 31.

If this value exceeds the number of days in a certain month, Macie doesn't run the job that month. Macie runs the job only during months that have the specified day. For example, if this value is 31 and a month has only 30 days, Macie doesn't run the job that month. To run the job every month, specify a value that's less than 29.

Type: integer
Required: False
Format: int32

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.
message

The explanation of the error that occurred.

Type: string
Required: False

S3BucketCriteriaForJob

Specifies property- and tag-based conditions that define criteria for including or excluding S3 buckets from a classification job. Exclude conditions take precedence over include conditions.

excludes

The property- and tag-based conditions that determine which buckets to exclude from the job.

Type: CriteriaBlockForJob (p. 104)
Required: False

includes

The property- and tag-based conditions that determine which buckets to include in the job.

Type: CriteriaBlockForJob (p. 104)
Required: False

S3BucketDefinitionForJob

Specifies an AWS account that owns S3 buckets for a classification job to analyze, and one or more specific buckets to analyze for that account.

accountId

The unique identifier for the AWS account that owns the buckets.

Type: string
Required: True

buckets

An array that lists the names of the buckets.

Type: Array of type string
Required: True

S3JobDefinition

Specifies which S3 buckets contain the objects that a classification job analyzes, and the scope of that analysis. The bucket specification can be static (bucketDefinitions) or dynamic (bucketCriteria). If it's static, the job analyzes objects in the same predefined set of buckets each time the job runs. If it's dynamic, the job analyzes objects in any buckets that match the specified criteria each time the job starts to run.
bucketCriteria

The property- and tag-based conditions that determine which S3 buckets to include or exclude from the analysis. Each time the job runs, the job uses these criteria to determine which buckets contain objects to analyze. A job's definition can contain a bucketCriteria object or a bucketDefinitions array, not both.

Type: S3BucketCriteriaForJob (p. 107)
Required: False

bucketDefinitions

An array of objects, one for each AWS account that owns specific S3 buckets to analyze. Each object specifies the account ID for an account and one or more buckets to analyze for that account. A job's definition can contain a bucketDefinitions array or a bucketCriteria object, not both.

Type: Array of type S3BucketDefinitionForJob (p. 107)
Required: False

scoping

The property- and tag-based conditions that determine which S3 objects to include or exclude from the analysis. Each time the job runs, the job uses these criteria to determine which objects to analyze.

Type: Scoping (p. 108)
Required: False

ScopeFilterKey

The property to use in a condition that determines whether an S3 object is included or excluded from a classification job. Valid values are:

- OBJECT_EXTENSION
- OBJECT_LAST_MODIFIED_DATE
- OBJECT_SIZE
- OBJECT_KEY

Scoping

Specifies one or more property- and tag-based conditions that define criteria for including or excluding S3 objects from a classification job. Exclude conditions take precedence over include conditions.

excludes

The property- and tag-based conditions that determine which objects to exclude from the analysis.

Type: JobScopingBlock (p. 106)
Required: False

includes

The property- and tag-based conditions that determine which objects to include in the analysis.

Type: JobScopingBlock (p. 106)
Required: False
**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

  * Type: string
  * Required: False

**SimpleCriterionForJob**

Specifies a property-based condition that determines whether an S3 bucket is included or excluded from a classification job.

**comparator**

The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

  * Type: JobComparator (p. 104)
  * Required: False

**key**

The property to use in the condition.

  * Type: SimpleCriterionKeyForJob (p. 109)
  * Required: False

**values**

An array that lists one or more values to use in the condition. If you specify multiple values, Amazon Macie uses OR logic to join the values. Valid values for each supported property (key) are:

- **ACCOUNT_ID** - A string that represents the unique identifier for the AWS account that owns the bucket.
- **S3_BUCKET_EFFECTIVE_PERMISSION** - A string that represents an enumerated value that Macie defines for the BucketPublicAccess.effectivePermission property of a bucket.
- **S3_BUCKET_NAME** - A string that represents the name of a bucket.
- **S3_BUCKET_SHARED_ACCESS** - A string that represents an enumerated value that Macie defines for the BucketMetadata.sharedAccess property of a bucket.

Values are case sensitive. Also, Macie doesn't support use of partial values or wildcard characters in these values.

  * Type: Array of type string
  * Required: False

**SimpleCriterionKeyForJob**

The property to use in a condition that determines whether an S3 bucket is included or excluded from a classification job. Valid values are:
ACCOUNT_ID
S3_BUCKET_NAME
S3_BUCKET_EFFECTIVE_PERMISSION
S3_BUCKET_SHARED_ACCESS

SimpleScopeTerm

Specifies a property-based condition that determines whether an S3 object is included or excluded from a classification job.

comparator

The operator to use in the condition. Valid values for each supported property (key) are:

- **OBJECT_EXTENSION** - EQ (equals) or NE (not equals)
- **OBJECT_KEY** - STARTS_WITH
- **OBJECT_LAST_MODIFIED_DATE** - EQ (equals), GT (greater than), GTE (greater than or equals), LT (less than), LTE (less than or equals), or NE (not equals)
- **OBJECT_SIZE** - EQ (equals), GT (greater than), GTE (greater than or equals), LT (less than), LTE (less than or equals), or NE (not equals)

**Type**: JobComparator (p. 104)
**Required**: False

key

The object property to use in the condition.

**Type**: ScopeFilterKey (p. 108)
**Required**: False

values

An array that lists the values to use in the condition. If the value for the key property is **OBJECT_EXTENSION** or **OBJECT_KEY**, this array can specify multiple values and Amazon Macie uses OR logic to join the values. Otherwise, this array can specify only one value.

Valid values for each supported property (key) are:

- **OBJECT_EXTENSION** - A string that represents the file name extension of an object. For example: docx or pdf
- **OBJECT_KEY** - A string that represents the key prefix (folder name or path) of an object. For example: logs or awslogs/eventlogs. This value applies a condition to objects whose keys (names) begin with the specified value.
- **OBJECT_LAST_MODIFIED_DATE** - The date and time (in UTC and extended ISO 8601 format) when an object was created or last changed, whichever is latest. For example: 2023-09-24T14:31:13Z
- **OBJECT_SIZE** - An integer that represents the storage size (in bytes) of an object.

Macie doesn't support use of wildcard characters in these values. Also, string values are case sensitive.

**Type**: Array of type string
**Required**: False
**TagCriterionForJob**

Specifies a tag-based condition that determines whether an S3 bucket is included or excluded from a classification job.

**comparator**

The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

*Type:* [JobComparator](p. 104)  
*Required:* False

**tagValues**

The tag keys, tag values, or tag key and value pairs to use in the condition.

*Type:* Array of type [TagCriterionPairForJob](p. 111)  
*Required:* False

**TagCriterionPairForJob**

Specifies a tag key, a tag value, or a tag key and value (as a pair) to use in a tag-based condition that determines whether an S3 bucket is included or excluded from a classification job. Tag keys and values are case sensitive. Also, Amazon Macie doesn't support use of partial values or wildcard characters in tag-based conditions.

**key**

The value for the tag key to use in the condition.

*Type:* string  
*Required:* False

**value**

The tag value to use in the condition.

*Type:* string  
*Required:* False

**TagMap**

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

**key-value pairs**

*Type:* string

**TagScopeTerm**

Specifies a tag-based condition that determines whether an S3 object is included or excluded from a classification job.
**comparator**

The operator to use in the condition. Valid values are EQ (equals) or NE (not equals).

- **Type:** JobComparator (p. 104)
- **Required:** False

**key**

The object property to use in the condition. The only valid value is TAG.

- **Type:** string
- **Required:** False

**tagValues**

The tag keys or tag key and value pairs to use in the condition. To specify only tag keys in a condition, specify the keys in this array and set the value for each associated tag value to an empty string.

- **Type:** Array of type TagValuePair (p. 112)
- **Required:** False

**target**

The type of object to apply the condition to.

- **Type:** TagTarget (p. 112)
- **Required:** False

**TagTarget**

The type of object to apply a tag-based condition to. Valid values are:

- S3_OBJECT

**TagValuePair**

Specifies a tag key or tag key and value pair to use in a tag-based condition that determines whether an S3 object is included or excluded from a classification job. Tag keys and values are case sensitive. Also, Amazon Macie doesn't support use of partial values or wildcard characters in tag-based conditions.

- **key**

  The value for the tag key to use in the condition.

  - **Type:** string
  - **Required:** False

- **value**

  The tag value, associated with the specified tag key (key), to use in the condition. To specify only a tag key for a condition, specify the tag key for the key property and set this value to an empty string.

  - **Type:** string
Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

WeeklySchedule

Specifies a weekly recurrence pattern for running a classification job.

dayOfWeek

The day of the week when Amazon Macie runs the job.

Type: string
Required: False
Values: SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

CreateClassificationJob

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
Classification Job List

The Classification Job List resource provides a subset of information about the classification jobs for your Amazon Macie account. A classification job, also referred to as a sensitive data discovery job, is a job that you create to analyze objects in Amazon Simple Storage Service (Amazon S3) buckets and determine whether the objects contain sensitive data.

You can use this resource to retrieve a subset of information about your classification jobs. To customize and refine your request, you can use the supported parameters to specify how to filter, sort, and paginate the results. To retrieve additional information about a particular classification job, use the Classification Job (p. 73) resource.

URI

/jobs/list

HTTP methods

POST

Operation ID: ListClassificationJobs

Retrieves a subset of information about one or more classification jobs.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListClassificationJobsResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 116)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 117)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 117)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 117)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 117)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 117)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>Status code</td>
<td>Response model</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

## Schemas

### Request bodies

#### POST schema

```json
{
  "filterCriteria": {
    "excludes": [
      {
        "comparator": enum,
        "key": enum,
        "values": [
          "string"
        ]
      },
      "includes": [
        {
          "comparator": enum,
          "key": enum,
          "values": [
            "string"
          ]
        }
      ],
      "maxResults": integer,
      "nextToken": "string",
      "sortCriteria": {
        "attributeName": enum,
        "orderBy": enum
      }
    }
  }
}
```

### Response bodies

#### ListClassificationJobsResponse schema

```json
{
  "items": [
    {
      "bucketCriteria": {
        "excludes": {
          "and": [
            {
              "simpleCriterion": {
                "comparator": enum,
                "key": enum,
                "values": [
                  "string"
                ]
              }
            }
          ]
        }
      }
    }
  ]
}
```
"tagCriterion": {
  "comparator": enum,
  "tagValues": [
    {
      "key": "string",
      "value": "string"
    }
  ]
},
"includes": {
  "and": [
    {"simpleCriterion": {
      "comparator": enum,
      "key": enum,
      "values": [
        "string"
      ]
    },
    "tagCriterion": {
      "comparator": enum,
      "tagValues": [
        {
          "key": "string",
          "value": "string"
        }
      ]
    }
  ]
}
},
"bucketDefinitions": [
  {
    "accountId": "string",
    "buckets": [
      "string"
    ],
    "createdAt": "string",
    "jobId": "string",
    "jobStatus": enum,
    "jobType": enum,
    "lastRunErrorStatus": {
      "code": enum
    },
    "name": "string",
    "userPausedDetails": {
      "jobExpiresAt": "string",
      "jobImminentExpirationHealthEventArn": "string",
      "jobPausedAt": "string"
    }
  },
  "nextToken": "string"
}

ValidationException schema

{
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False
ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

CriteriaBlockForJob

Specifies one or more property- and tag-based conditions that define criteria for including or excluding S3 buckets from a classification job.

and

An array of conditions, one for each condition that determines which buckets to include or exclude from the job. If you specify more than one condition, Amazon Macie uses AND logic to join the conditions.

  Type: Array of type CriteriaForJob (p. 118)
  Required: False

CriteriaForJob

Specifies a property- or tag-based condition that defines criteria for including or excluding S3 buckets from a classification job.

simpleCriterion

A property-based condition that defines a property, operator, and one or more values for including or excluding buckets from the job.

  Type: SimpleCriterionForJob (p. 125)
  Required: False

tagCriterion

A tag-based condition that defines an operator and tag keys, tag values, or tag key and value pairs for including or excluding buckets from the job.

  Type: TagCriterionForJob (p. 126)
  Required: False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

  Type: string
**Required**: False

**JobComparator**

The operator to use in a condition. Depending on the type of condition, possible values are:

- EQ
- GT
- GTE
- LT
- LTE
- NE
- CONTAINS
- STARTS_WITH

**JobStatus**

The status of a classification job. Possible values are:

- RUNNING
- PAUSED
- CANCELLED
- COMPLETE
- IDLE
- USER_PAUSED

**JobSummary**

Provides information about a classification job, including the current status of the job.

**bucketCriteria**

The property- and tag-based conditions that determine which S3 buckets are included or excluded from the job's analysis. Each time the job runs, the job uses these criteria to determine which buckets to analyze. A job's definition can contain a `bucketCriteria` object or a `bucketDefinitions` array, not both.

*Type*: `S3BucketCriteriaForJob (p. 124)`

*Required*: False

**bucketDefinitions**

An array of objects, one for each AWS account that owns specific S3 buckets for the job to analyze. Each object specifies the account ID for an account and one or more buckets to analyze for that account. A job's definition can contain a bucketDefinitions array or a bucketCriteria object, not both.

*Type*: Array of type `S3BucketDefinitionForJob (p. 124)`

*Required*: False

**createdAt**

The date and time, in UTC and extended ISO 8601 format, when the job was created.

*Type*: string
Required: False  
Format: date-time

**jobId**

The unique identifier for the job.

Type: string  
Required: False

**jobStatus**

The current status of the job. Possible values are:

- CANCELLED - You cancelled the job or, if it's a one-time job, you paused the job and didn't resume it within 30 days.
- COMPLETE - For a one-time job, Amazon Macie finished processing the data specified for the job. This value doesn't apply to recurring jobs.
- IDLE - For a recurring job, the previous scheduled run is complete and the next scheduled run is pending. This value doesn't apply to one-time jobs.
- PAUSED - Macie started running the job but additional processing would exceed the monthly sensitive data discovery quota for your account or one or more member accounts that the job analyzes data for.
- RUNNING - For a one-time job, the job is in progress. For a recurring job, a scheduled run is in progress.
- USER_PAUSED - You paused the job. If you paused the job while it had a status of RUNNING and you don't resume it within 30 days of pausing it, the job or job run will expire and be cancelled, depending on the job's type. To check the expiration date, refer to the UserPausedDetails.jobExpiresAt property.

Type: [JobStatus](p. 119)  
Required: False

**jobType**

The schedule for running the job. Possible values are:

- ONE_TIME - The job runs only once.
- SCHEDULED - The job runs on a daily, weekly, or monthly basis.

Type: [JobType](p. 121)  
Required: False

**lastRunErrorStatus**

Specifies whether any account- or bucket-level access errors occurred when the job ran. For a recurring job, this value indicates the error status of the job's most recent run.

Type: [LastRunErrorStatus](p. 121)  
Required: False

**name**

The custom name of the job.
Properties

Type: string  
Required: False

userPausedDetails

If the current status of the job is USER_PAUSED, specifies when the job was paused and when the job or job run will expire and be cancelled if it isn’t resumed. This value is present only if the value for jobStatus is USER_PAUSED.

Type: UserPausedDetails (p. 127)  
Required: False

JobType

The schedule for running a classification job. Valid values are:

- ONE_TIME
- SCHEDULED

LastRunErrorStatus

Specifies whether any account- or bucket-level access errors occurred when a classification job ran. For information about using logging data to investigate these errors, see Monitoring sensitive data discovery jobs in the Amazon Macie User Guide.

code

Specifies whether any account- or bucket-level access errors occurred when the job ran. For a recurring job, this value indicates the error status of the job’s most recent run. Possible values are:

- ERROR - One or more errors occurred. Amazon Macie didn’t process all the data specified for the job.
- NONE - No errors occurred. Macie processed all the data specified for the job.

Type: LastRunErrorStatusCode (p. 121)  
Required: False

LastRunErrorStatusCode

Specifies whether any account- or bucket-level access errors occurred during the run of a one-time classification job or the most recent run of a recurring classification job. Possible values are:

- NONE
- ERROR

ListClassificationJobsRequest

Specifies criteria for filtering, sorting, and paginating the results of a request for information about classification jobs.

filterCriteria

The criteria to use to filter the results.
Type: ListJobsFilterCriteria (p. 122)
Required: False

maxResults
The maximum number of items to include in each page of the response.
Type: integer
Required: False
Format: int32

nextToken
The nextToken string that specifies which page of results to return in a paginated response.
Type: string
Required: False

sortCriteria
The criteria to use to sort the results.
Type: ListJobsSortCriteria (p. 123)
Required: False

ListClassificationJobsResponse
Provides the results of a request for information about one or more classification jobs.

items
An array of objects, one for each job that matches the filter criteria specified in the request.
Type: Array of type JobSummary (p. 119)
Required: False

nextToken
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.
Type: string
Required: False

ListJobsFilterCriteria
Specifies criteria for filtering the results of a request for information about classification jobs.

excludes
An array of objects, one for each condition that determines which jobs to exclude from the results.
Type: Array of type ListJobsFilterTerm (p. 123)
Required: False
includes

An array of objects, one for each condition that determines which jobs to include in the results.

  Type: Array of type ListJobsFilterTerm (p. 123)
  Required: False

**ListJobsFilterKey**

The property to use to filter the results. Valid values are:

- jobType
- jobStatus
- createdAt
- name

**ListJobsFilterTerm**

Specifies a condition that filters the results of a request for information about classification jobs. Each condition consists of a property, an operator, and one or more values.

**comparator**

The operator to use to filter the results.

  Type: JobComparator (p. 119)
  Required: False

**key**

The property to use to filter the results.

  Type: ListJobsFilterKey (p. 123)
  Required: False

**values**

An array that lists one or more values to use to filter the results.

  Type: Array of type string
  Required: False

**ListJobsSortAttributeName**

The property to sort the results by. Valid values are:

- createdAt
- jobStatus
- name
- jobType

**ListJobsSortCriteria**

 Specifies criteria for sorting the results of a request for information about classification jobs.
attributeName

The property to sort the results by.

Type: ListJobsSortAttributeName (p. 123)
Required: False

orderBy

The sort order to apply to the results, based on the value for the property specified by the attributeName property. Valid values are: ASC, sort the results in ascending order; and, DESC, sort the results in descending order.

Type: string
Required: False
Values: ASC | DESC

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

S3BucketCriteriaForJob

Specifies property- and tag-based conditions that define criteria for including or excluding S3 buckets from a classification job. Exclude conditions take precedence over include conditions.

excludes

The property- and tag-based conditions that determine which buckets to exclude from the job.

Type: CriteriaBlockForJob (p. 118)
Required: False

includes

The property- and tag-based conditions that determine which buckets to include in the job.

Type: CriteriaBlockForJob (p. 118)
Required: False

S3BucketDefinitionForJob

Specifies an AWS account that owns S3 buckets for a classification job to analyze, and one or more specific buckets to analyze for that account.

accountId

The unique identifier for the AWS account that owns the buckets.
Properties

**Type**: string  
**Required**: True

**buckets**

An array that lists the names of the buckets.

- **Type**: Array of type string  
- **Required**: True

**ServiceQuotaExceeded Exception**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

- **Type**: string  
- **Required**: False

**SimpleCriterionForJob**

Specifies a property-based condition that determines whether an S3 bucket is included or excluded from a classification job.

**comparator**

The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

- **Type**: JobComparator (p. 119)  
- **Required**: False

**key**

The property to use in the condition.

- **Type**: SimpleCriterionKeyForJob (p. 126)  
- **Required**: False

**values**

An array that lists one or more values to use in the condition. If you specify multiple values, Amazon Macie uses OR logic to join the values. Valid values for each supported property (key) are:

- **ACCOUNT_ID** - A string that represents the unique identifier for the AWS account that owns the bucket.
- **S3_BUCKET_EFFECTIVE_PERMISSION** - A string that represents an enumerated value that Macie defines for the BucketPublicAccess.effectivePermission property of a bucket.
- **S3_BUCKET_NAME** - A string that represents the name of a bucket.
- **S3_BUCKET_SHARED_ACCESS** - A string that represents an enumerated value that Macie defines for the BucketMetadata.sharedAccess property of a bucket.
Values are case sensitive. Also, Macie doesn't support use of partial values or wildcard characters in these values.

**Type:** Array of type string
**Required:** False

### SimpleCriterionKeyForJob

The property to use in a condition that determines whether an S3 bucket is included or excluded from a classification job. Valid values are:

- ACCOUNT_ID
- S3_BUCKET_NAME
- S3_BUCKET_EFFECTIVE_PERMISSION
- S3_BUCKET_SHARED_ACCESS

### TagCriterionForJob

Specifies a tag-based condition that determines whether an S3 bucket is included or excluded from a classification job.

**comparator**

The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

**Type:** JobComparator (p. 119)
**Required:** False

**tagValues**

The tag keys, tag values, or tag key and value pairs to use in the condition.

**Type:** Array of type TagCriterionPairForJob (p. 126)
**Required:** False

### TagCriterionPairForJob

Specifies a tag key, a tag value, or a tag key and value (as a pair) to use in a tag-based condition that determines whether an S3 bucket is included or excluded from a classification job. Tag keys and values are case sensitive. Also, Amazon Macie doesn't support use of partial values or wildcard characters in tag-based conditions.

**key**

The value for the tag key to use in the condition.

**Type:** string
**Required:** False

**value**

The tag value to use in the condition.
ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

UserPausedDetails

Provides information about when a classification job was paused. For a one-time job, this object also specifies when the job will expire and be cancelled if it isn't resumed. For a recurring job, this object also specifies when the paused job run will expire and be cancelled if it isn't resumed. This object is present only if a job's current status (jobStatus) is USER_PAUSED. The information in this object applies only to a job that was paused while it had a status of RUNNING.

jobExpiresAt

The date and time, in UTC and extended ISO 8601 format, when the job or job run will expire and be cancelled if you don't resume it first.

jobImminentExpirationHealthEventArn

The Amazon Resource Name (ARN) of the AWS Health event that Amazon Macie sent to notify you of the job or job run's pending expiration and cancellation. This value is null if a job has been paused for less than 23 days.

jobPausedAt

The date and time, in UTC and extended ISO 8601 format, when you paused the job.

ValidationException

Provides information about an error that occurred due to a syntax error in a request.
message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

ListClassificationJobs

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Classification Results - Export Configuration

The Export Configuration resource for classification results provides access to settings for storing data classification results in an Amazon Simple Storage Service (Amazon S3) bucket. A data classification result, also referred to as a sensitive data discovery result, is a record that logs details about the analysis that Amazon Macie performed on an Amazon S3 object to determine whether the object contains sensitive data.

When you run a classification job or perform automated sensitive data discovery, Macie automatically creates a data classification result for each S3 object that's included in the scope of the analysis. This includes objects that Macie doesn't find sensitive data in, and therefore don't produce findings, and objects that Amazon Macie can't analyze due to issues such as permissions settings. Data classification results provide you with analysis records that can be helpful for data privacy and protection audits or investigations. You can configure Macie to store these records in an S3 bucket, and encrypt them with an AWS Key Management Service (AWS KMS) key. For more information, see Storing and retaining sensitive data discovery results in the Amazon Macie User Guide.

If you use Macie in multiple AWS Regions, configure these settings for each Region in which you use Macie. You can optionally store classification results for multiple Regions in the same S3 bucket. However, note the following requirements:

- To store the results for a Region that AWS enables by default for AWS accounts, such as the US East (N. Virginia) Region, you have to choose a bucket in a Region that AWS enables by default. The results can't be stored in a bucket in a manually enabled Region.
- To store the results for a Region that AWS doesn't enable by default for AWS accounts, such as the Middle East (Bahrain) Region, you have to choose a bucket in that same Region or a Region that AWS enables by default. The results can't be stored in a bucket in a different manually enabled Region.
To determine whether a Region is enabled by default or must be manually enabled, see Regions and endpoints in the AWS Identity and Access Management User Guide.

You can use the Export Configuration resource to specify or retrieve information about your configuration settings for storing data classification results in an S3 bucket.

URI

/classification-export-configuration

HTTP methods

GET

Operation ID: GetClassificationExportConfiguration

Retrieves the configuration settings for storing data classification results.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetClassificationExportConfiguration</td>
<td>The request succeeded. (p. 130)</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 131)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 131)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 131)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 131)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 131)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 132)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 132)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

PUT

Operation ID: PutClassificationExportConfiguration

Creates or updates the configuration settings for storing data classification results.
Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td><strong>PutClassificationExportConfigurationResponse</strong> (p. 131)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td><strong>ValidationException</strong> (p. 131)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td><strong>ServiceQuotaExceededException</strong> (p. 131)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td><strong>AccessDeniedException</strong> (p. 131)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td><strong>ResourceNotFoundException</strong> (p. 131)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td><strong>ConflictException</strong> (p. 131)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td><strong>ThrottlingException</strong> (p. 131)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td><strong>InternalServerException</strong> (p. 131)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

PUT schema

```json
{
  "configuration": {
    "s3Destination": {
      "bucketName": "string",
      "keyPrefix": "string",
      "kmsKeyArn": "string"
    }
  }
}
```

Response bodies

GetClassificationExportConfigurationResponse schema

```json
{
  "configuration": {
```
PutClassificationExportConfigurationResponse schema

```json
{
    "configuration": {
        "s3Destination": {
            "bucketName": "string",
            "keyPrefix": "string",
            "kmsKeyArn": "string"
        }
    }
}
```

ValidationException schema

```json
{
    "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
    "message": "string"
}
```

AccessDeniedException schema

```json
{
    "message": "string"
}
```

ResourceNotFoundException schema

```json
{
    "message": "string"
}
```

ConflictingException schema

```json
{
    "message": "string"
}
```
Properties

AccessDeniedException
Provides information about an error that occurred due to insufficient access to a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

ClassificationExportConfiguration
Specifies where to store data classification results, and the encryption settings to use when storing results in that location. The location must be an S3 bucket.

s3Destination
The S3 bucket to store data classification results in, and the encryption settings to use when storing results in that bucket.

Type: S3Destination (p. 134)
Required: False

ConflictException
Provides information about an error that occurred due to a versioning conflict for a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

GetClassificationExportConfigurationResponse
Provides information about the current configuration settings for storing data classification results.
configuration
The location where data classification results are stored, and the encryption settings that are used when storing results in that location.

Type: ClassificationExportConfiguration (p. 132)
Required: False

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

PutClassificationExportConfigurationRequest
Specifies where to store data classification results, and the encryption settings to use when storing results in that location.

configuration
The location to store data classification results in, and the encryption settings to use when storing results in that location.

Type: ClassificationExportConfiguration (p. 132)
Required: True

PutClassificationExportConfigurationResponse
Provides information about updated settings for storing data classification results.

configuration
The location where the data classification results are stored, and the encryption settings that are used when storing results in that location.

Type: ClassificationExportConfiguration (p. 132)
Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

Type: string
**Required:** False

**S3Destination**

Specifies an S3 bucket to store data classification results in, and the encryption settings to use when storing results in that bucket.

**bucketName**

The name of the bucket.

- **Type:** string
- **Required:** True

**keyPrefix**

The path prefix to use in the path to the location in the bucket. This prefix specifies where to store classification results in the bucket.

- **Type:** string
- **Required:** False

**kmsKeyArn**

The Amazon Resource Name (ARN) of the customer managed AWS KMS key to use for encryption of the results. This must be the ARN of an existing, symmetric encryption AWS KMS key that’s enabled in the same AWS Region as the bucket.

- **Type:** string
- **Required:** True

**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False
ValidationException

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.

*Type: string*

*Required: False*

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**GetClassificationExportConfiguration**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**PutClassificationExportConfiguration**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Classification Scope

The Classification Scope resource provides access to the settings of the classification scope for your Amazon Macie account. The classification scope specifies Amazon Simple Storage Service (Amazon S3) buckets that you don’t want Macie to analyze when it performs automated sensitive data discovery for your account. It defines an S3 bucket exclusion list for automated sensitive data discovery. For more information, see Performing automated sensitive data discovery in the Amazon Macie User Guide.
The first time you enable automated sensitive data discovery for your account, Macie automatically creates the classification scope for your account. Macie then uses the settings specified by the classification scope to determine which S3 buckets to exclude from analyses. You can customize the settings by adding buckets to and removing buckets from the list of buckets to exclude. For example, you might exclude buckets that typically store AWS logging data, such as a bucket that stores AWS CloudTrail event logs. By default, Macie analyzes data in all the buckets for your account. If your account is the Macie administrator account for an organization, this includes buckets that member accounts own.

You can use the Classification Scope resource to retrieve or update the classification scope settings for your account. To use this resource, automated sensitive data discovery must be enabled for your account. To enable automated sensitive data discovery for your account, use the Automated Sensitive Data Discovery Configuration (p. 67) resource. When you use this resource, you have to specify the unique identifier for the classification scope for your account. To obtain this identifier, use the Classification Scopes (p. 143) resource.

**URI**

`/classification-scopes/id`

**HTTP methods**

**GET**

**Operation ID:** GetClassificationScope

Retrieves the classification scope settings for an account.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetClassificationScopeResponse (p. 138)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 139)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 139)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 139)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 139)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>Status code</td>
<td>Response model</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 139)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**PATCH**

**Operation ID:** UpdateClassificationScope

Updates the classification scope settings for an account.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 138)</td>
<td>The request succeeded. The specified settings were updated and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 138)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 138)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 138)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 139)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 139)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**Schemas**

**Request bodies**
PATCH schema

{
  "s3": {
    "excludes": {
      "bucketNames": [
        "string"
      ],
      "operation": enum
    }
  }
}

Response bodies

GetClassificationScopeResponse schema

{
  "id": "string",
  "name": "string",
  "s3": {
    "excludes": {
      "bucketNames": [
        "string"
      ]
    }
  }
}

Empty Schema schema

{
}

ValidationException schema

{
  "message": "string"
}

AccessDeniedException schema

{
  "message": "string"
}

ResourceNotFoundException schema

{
  "message": "string"
}
ThrottlingException schema

```json
{
   "message": "string"
}
```

InternalServerException schema

```json
{
   "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

ClassificationScopeUpdateOperation

Specifies how to apply changes to the S3 bucket exclusion list defined by the classification scope for an Amazon Macie account. Valid values are:

ADD  
REPLACE  
REMOVE

Empty

The request succeeded and there isn’t any content to include in the body of the response (No Content).

GetClassificationScopeResponse

Provides information about the classification scope settings for an Amazon Macie account. Macie uses these settings when it performs automated sensitive data discovery for the account.

**id**

The unique identifier for the classification scope.

**Type**: string  
**Required**: False

**name**

The name of the classification scope: `automated-sensitive-data-discovery`.

**Type:** string  
**Required:** False

### S3

The S3 buckets that are excluded from automated sensitive data discovery.

**Type:** [S3ClassificationScope](#)  
**Required:** False

### InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

**Type:** string  
**Required:** False

### ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

**Type:** string  
**Required:** False

### S3ClassificationScope

Specifies the S3 buckets that are excluded from automated sensitive data discovery for an Amazon Macie account.

**excludes**

The S3 buckets that are excluded.

**Type:** [S3ClassificationScopeExclusion](#)  
**Required:** True

### S3ClassificationScopeExclusion

Specifies the names of the S3 buckets that are excluded from automated sensitive data discovery.

**bucketNames**

An array of strings, one for each S3 bucket that is excluded. Each string is the full name of an excluded bucket.
**S3ClassificationScopeExclusionUpdate**

Specifies S3 buckets to add or remove from the exclusion list defined by the classification scope for an Amazon Macie account.

**bucketNames**

Depending on the value specified for the update operation (ClassificationScopeUpdateOperation), an array of strings that: lists the names of buckets to add or remove from the list, or specifies a new set of bucket names that overwrites all existing names in the list. Each string must be the full name of an S3 bucket. Values are case sensitive.

**operation**

Specifies how to apply the changes to the exclusion list. Valid values are:

- **ADD** - Append the specified bucket names to the current list.
- **REMOVE** - Remove the specified bucket names from the current list.
- **REPLACE** - Overwrite the current list with the specified list of bucket names. If you specify this value, Amazon Macie removes all existing names from the list and adds all the specified names to the list.

**S3ClassificationScopeUpdate**

Specifies changes to the list of S3 buckets that are excluded from automated sensitive data discovery for an Amazon Macie account.

**excludes**

The names of the S3 buckets to add or remove from the list.

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.
UpdateClassificationScopeRequest

Specifies new classification scope settings for an Amazon Macie account. Macie uses these settings when it performs automated sensitive data discovery for the account. To update the settings, automated sensitive data discovery must currently be enabled for the account.

s3

The S3 buckets to add or remove from the exclusion list defined by the classification scope.

Type: S3ClassificationScopeUpdate (p. 141)
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetClassificationScope

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateClassificationScope

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
Classification Scopes

The Classification Scopes resource provides a subset of information about the classification scope for your Amazon Macie account. The classification scope specifies Amazon Simple Storage Service (Amazon S3) buckets that you don't want Macie to analyze when it performs automated sensitive data discovery for your account. It defines an S3 bucket exclusion list for automated sensitive data discovery. The first time you enable automated sensitive data discovery for your account, Macie automatically creates the classification scope for your account.

You can use this resource to retrieve the unique identifier and name of the classification scope that Macie created for your account. You can then use the unique identifier to retrieve or update the settings for the classification scope by using the Classification Scope (p. 135) resource. To use this resource, automated sensitive data discovery must be enabled for your account. To enable automated sensitive data discovery for your account, use the Automated Sensitive Data Discovery Configuration (p. 67) resource.

**URI**

/classification-scopes

**HTTP methods**

**GET**

*Operation ID: ListClassificationScopes*

Retrieves a subset of information about the classification scope for an account.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>String</td>
<td>False</td>
<td>The name of the classification scope to retrieve the unique identifier for.</td>
</tr>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to return in a paginated response.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListClassificationScopesResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 144)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
</tbody>
</table>
### Status code

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 144)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 144)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 144)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Response bodies

**ListClassificationScopesResponse schema**

```json
{
  "classificationScopes": [
    {
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

**ValidationException schema**

```json
{
  "message": "string"
}
```

**AccessDeniedException schema**

```json
{
  "message": "string"
}
```

**ThrottlingException schema**

```json
{
  "message": "string"
}
```

**InternalServerException schema**

```json
{
  "message": "string"
}
```
Properties

AccessDeniedException
Provides information about an error that occurred due to insufficient access to a specified resource.

message
The explanation of the error that occurred.

Type: string  
Required: False

ClassificationScopeSummary
Provides information about the classification scope for an Amazon Macie account. Macie uses the scope's settings when it performs automated sensitive data discovery for the account.

id
The unique identifier for the classification scope.

Type: string  
Required: False

name
The name of the classification scope: automated-sensitive-data-discovery.

Type: string  
Required: False

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string  
Required: False

ListClassificationScopesResponse
Provides the results of a request for information about the classification scope for an Amazon Macie account. Macie uses the scope's settings when it performs automated sensitive data discovery for the account.

classificationScopes
An array that specifies the unique identifier and name of the classification scope for the account.
nextToken

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

ListClassificationScopes

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)
Custom Data Identifier

The Custom Data Identifier resource provides access to the repository of custom data identifiers for your Amazon Macie account. A custom data identifier is a set of criteria that you define to detect sensitive data in a data source. The criteria consist of a regular expression (regex) that defines a text pattern to match and, optionally, character sequences and a proximity rule that refine the analysis of data. In addition to detection criteria, you can optionally define severity levels for the findings that a custom data identifier produces. Severity levels are based on the number of occurrences of text that match the custom data identifier's detection criteria.

You can use the Custom Data Identifier resource to retrieve detailed information about the detection criteria and other settings for a custom data identifier. You can also use this resource to delete a custom data identifier. To use this resource, you have to specify the unique identifier for the custom data identifier that your request applies to. To find this identifier, use the Custom Data Identifier List (p. 168) resource.

URI

/custom-data-identifiers/id

HTTP methods

DELETE

Operation ID: DeleteCustomDataIdentifier

Soft deletes a custom data identifier.

Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 149)</td>
<td>The request succeeded. The specified custom data identifier was deleted and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 149)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
</tbody>
</table>
### HTTP methods

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 150)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 150)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 150)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 150)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 149)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### GET

**Operation ID:** GetCustomDataIdentifier

Retrieves the criteria and other settings for a custom data identifier.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetCustomDataIdentifierResponse (p. 149)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 149)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 150)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 150)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
</tbody>
</table>
Status code | Response model | Description
--- | --- | ---
409 | ConflictException (p. 150) | The request failed because it conflicts with the current state of the specified resource.
429 | ThrottlingException (p. 150) | The request failed because you sent too many requests during a certain amount of time.
500 | InternalServerException (p. 150) | The request failed due to an unknown internal server error, exception, or failure.

Schemas

Response bodies

Empty Schema schema

```json
{}
```

GetCustomDataIdentifierResponse schema

```json
{
  "arn": "string",
  "createdAt": "string",
  "deleted": boolean,
  "description": "string",
  "id": "string",
  "ignoreWords": [
    "string"
  ],
  "keywords": [
    "string"
  ],
  "maximumMatchDistance": integer,
  "name": "string",
  "regex": "string",
  "severityLevels": [
    {
      "occurrencesThreshold": integer,
      "severity": enum
    }
  ],
  "tags": {
  }
}
```

ValidationException schema

```json
{
  "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

DataIdentifierSeverity

The severity of a finding, ranging from LOW, for least severe, to HIGH, for most severe. Valid values are:

- LOW
- MEDIUM
- HIGH

Empty

The request succeeded and there isn't any content to include in the body of the response (No Content).

GetCustomDataIdentifierResponse

Provides information about the detection criteria and other settings for a custom data identifier.

arn

The Amazon Resource Name (ARN) of the custom data identifier.

  Type: string
  Required: False

createdAt

The date and time, in UTC and extended ISO 8601 format, when the custom data identifier was created.

  Type: string
  Required: False
  Format: date-time

deleted

Specifies whether the custom data identifier was deleted. If you delete a custom data identifier, Amazon Macie doesn't delete it permanently. Instead, it soft deletes the identifier.

  Type: boolean
  Required: False
description
The custom description of the custom data identifier.

Type: string
Required: False

id
The unique identifier for the custom data identifier.

Type: string
Required: False

ignoreWords
An array that lists specific character sequences (ignore words) to exclude from the results. If the text matched by the regular expression contains any string in this array, Amazon Macie ignores it. Ignore words are case sensitive.

Type: Array of type string
Required: False

keywords
An array that lists specific character sequences (keywords), one of which must precede and be within proximity (maximumMatchDistance) of the regular expression to match. Keywords aren't case sensitive.

Type: Array of type string
Required: False

maximumMatchDistance
The maximum number of characters that can exist between the end of at least one complete character sequence specified by the keywords array and the end of the text that matches the regex pattern. If a complete keyword precedes all the text that matches the pattern and the keyword is within the specified distance, Amazon Macie includes the result. Otherwise, Macie excludes the result.

Type: integer
Required: False
Format: int32

name
The custom name of the custom data identifier.

Type: string
Required: False

regex
The regular expression (regex) that defines the pattern to match.

Type: string
Required: False

severityLevels

Specifies the severity that's assigned to findings that the custom data identifier produces, based on the number of occurrences of text that match the custom data identifier's detection criteria. By default, Amazon Macie creates findings for S3 objects that contain at least one occurrence of text that matches the detection criteria, and Macie assigns the MEDIUM severity to those findings.

Type: Array of type SeverityLevel (p. 154)
Required: False

tags

A map of key-value pairs that identifies the tags (keys and values) that are associated with the custom data identifier.

Type: TagMap (p. 154)
Required: False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string
Required: False
SeverityLevel

Specifies a severity level for findings that a custom data identifier produces. A severity level determines which severity is assigned to the findings, based on the number of occurrences of text that match the custom data identifier's detection criteria.

occurrencesThreshold

The minimum number of occurrences of text that must match the custom data identifier's detection criteria in order to produce a finding with the specified severity (severity).

Type: integer
Required: True
Format: int64

severity

The severity to assign to a finding: if the number of occurrences is greater than or equal to the specified threshold (occurrencesThreshold); and, if applicable, the number of occurrences is less than the threshold for the next consecutive severity level for the custom data identifier, moving from LOW to HIGH.

Type: DataIdentifierSeverity (p. 151)
Required: True

TagMap

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

key-value pairs

Type: string

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DeleteCustomDataIdentifier

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCustomDataIdentifier

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Custom Data Identifier Creation

A custom data identifier is a set of criteria that you define to detect sensitive data in a data source. The criteria consist of a regular expression (regex) that defines a text pattern to match and, optionally, character sequences and a proximity rule that refine the analysis of data. The character sequences can be: keywords, which are words or phrases that must be in proximity of text that matches the regex, or ignore words, which are words or phrases to exclude from the results. By using custom data identifiers, you can detect sensitive data that reflects your particular scenarios, intellectual property, or proprietary data, and supplement the managed data identifiers that Amazon Macie provides.

In addition to detection criteria, you can optionally specify severity levels for findings that a custom data identifier produces. Each severity level is based on the number of occurrences of text that match the custom data identifier's detection criteria. If you don't specify any severity levels for a custom data identifier, Macie automatically assigns the Medium severity to all findings that the custom data identifier produces. For more information, see Building custom data identifiers in the Amazon Macie User Guide.

You can use the Custom Data Identifier Creation resource to create a new custom data identifier. Note that you can't change a custom data identifier after you create it. This helps to ensure that you have an
immutable history of sensitive data findings and discovery results for data privacy and protection audits or investigations. To test and refine a custom data identifier before you create it, use the Custom Data Identifier Testing (p. 174) resource.

**URI**

/custom-data-identifiers

**HTTP methods**

**POST**

**Operation ID:** CreateCustomDataIdentifier

Creates and defines the criteria and other settings for a custom data identifier.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>CreateCustomDataIdentifierResponse</td>
<td>The request succeeded. The specified custom data identifier was created.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 157)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 157)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 157)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 158)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 158)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 158)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**Schemas**

**Request bodies**
POST schema

```json
{
  "clientToken": "string",
  "description": "string",
  "ignoreWords": [
    "string"
  ],
  "keywords": [
    "string"
  ],
  "maximumMatchDistance": integer,
  "name": "string",
  "regex": "string",
  "severityLevels": [
    {
      "occurrencesThreshold": integer,
      "severity": enum
    }
  ],
  "tags": {
  }
}
```

Response bodies

CreateCustomDataIdentifierResponse schema

```json
{
  "customDataIdentifierId": "string"
}
```

ValidationException schema

```json
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
  "message": "string"
}
```

AccessDeniedException schema

```json
{
  "message": "string"
}
```

ResourceNotFoundException schema

```json
{
  "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

CreateCustomDataIdentifierRequest

Specifies the detection criteria and other settings for a custom data identifier. You can't change a custom data identifier after you create it. This helps to ensure that you have an immutable history of sensitive data findings and discovery results for data privacy and protection audits or investigations.

clientToken

A unique, case-sensitive token that you provide to ensure the idempotency of the request.
Properties

**Type**: string  
**Required**: False

**description**
A custom description of the custom data identifier. The description can contain as many as 512 characters.

We strongly recommend that you avoid including any sensitive data in the description of a custom data identifier. Other users of your account might be able to see this description, depending on the actions that they're allowed to perform in Amazon Macie.

**Type**: string  
**Required**: False

**ignoreWords**
An array that lists specific character sequences (ignore words) to exclude from the results. If the text matched by the regular expression contains any string in this array, Amazon Macie ignores it. The array can contain as many as 10 ignore words. Each ignore word can contain 4-90 UTF-8 characters. Ignore words are case sensitive.

**Type**: Array of type string  
**Required**: False

**keywords**
An array that lists specific character sequences (keywords), one of which must precede and be within proximity (maximumMatchDistance) of the regular expression to match. The array can contain as many as 50 keywords. Each keyword can contain 3-90 UTF-8 characters. Keywords aren't case sensitive.

**Type**: Array of type string  
**Required**: False

**maximumMatchDistance**
The maximum number of characters that can exist between the end of at least one complete character sequence specified by the keywords array and the end of the text that matches the regex pattern. If a complete keyword precedes all the text that matches the pattern and the keyword is within the specified distance, Amazon Macie includes the result. The distance can be 1-300 characters. The default value is 50.

**Type**: integer  
**Required**: False  
**Format**: int32

**name**
A custom name for the custom data identifier. The name can contain as many as 128 characters.

We strongly recommend that you avoid including any sensitive data in the name of a custom data identifier. Other users of your account might be able to see this name, depending on the actions that they're allowed to perform in Amazon Macie.

**Type**: string
**Required**: True

### regex

The regular expression (regex) that defines the pattern to match. The expression can contain as many as 512 characters.

**Type**: string  
**Required**: True

### severityLevels

The severity to assign to findings that the custom data identifier produces, based on the number of occurrences of text that match the custom data identifier's detection criteria. You can specify as many as three SeverityLevel objects in this array, one for each severity: LOW, MEDIUM, or HIGH. If you specify more than one, the occurrences thresholds must be in ascending order by severity, moving from LOW to HIGH. For example, 1 for LOW, 50 for MEDIUM, and 100 for HIGH. If an S3 object contains fewer occurrences than the lowest specified threshold, Amazon Macie doesn't create a finding.

If you don’t specify any values for this array, Macie creates findings for S3 objects that contain at least one occurrence of text that matches the detection criteria, and Macie assigns the MEDIUM severity to those findings.

**Type**: Array of type [SeverityLevel (p. 161)](#)  
**Required**: False

### tags

A map of key-value pairs that specifies the tags to associate with the custom data identifier.

A custom data identifier can have a maximum of 50 tags. Each tag consists of a tag key and an associated tag value. The maximum length of a tag key is 128 characters. The maximum length of a tag value is 256 characters.

**Type**: [TagMap (p. 162)](#)  
**Required**: False

---

**CreateCustomDataIdentifierResponse**

Provides information about a custom data identifier that was created in response to a request.

**customDataIdentifierId**

The unique identifier for the custom data identifier that was created.

**Type**: string  
**Required**: False

**DataIdentifierSeverity**

The severity of a finding, ranging from LOW, for least severe, to HIGH, for most severe. Valid values are:

- LOW
- MEDIUM
- HIGH
InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceedededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string
Required: False

SeverityLevel

Specifies a severity level for findings that a custom data identifier produces. A severity level determines which severity is assigned to the findings, based on the number of occurrences of text that match the custom data identifier's detection criteria.

occurrencesThreshold

The minimum number of occurrences of text that must match the custom data identifier's detection criteria in order to produce a finding with the specified severity (severity).

Type: integer
Required: True
Format: int64

severity

The severity to assign to a finding: if the number of occurrences is greater than or equal to the specified threshold (occurrencesThreshold); and, if applicable, the number of occurrences is less than the threshold for the next consecutive severity level for the custom data identifier, moving from LOW to HIGH.
TagMap

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

key-value pairs

Type: string

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string

Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string

Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

CreateCustomDataIdentifier

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
Custom Data Identifier Descriptions

The Custom Data Identifier Descriptions resource provides information about the custom data identifiers for your Amazon Macie account. A custom data identifier is a set of criteria that you define to detect sensitive data in a data source.

You can use this resource to retrieve a subset of information about one or more custom data identifiers for your account. To refine your request, you can use the supported request parameter to specify which custom data identifiers to retrieve information about. To retrieve detailed information about the detection criteria and other settings for an individual custom data identifier, use the Custom Data Identifier resource.

URI
/custom-data-identifiers/get

HTTP methods
POST

Operation ID: BatchGetCustomDataIdentifiers

Retrieves information about one or more custom data identifiers.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>BatchGetCustomDataIdentifiersResponse (p. 147)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 164)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 164)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 165)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 165)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 165)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
</tbody>
</table>
Schemas

Request bodies

POST schema

```
{
  "ids": [
    "string"
  ]
}
```

Response bodies

BatchGetCustomDataIdentifiersResponse schema

```
{
  "customDataIdentifiers": [
    {
      "arn": "string",
      "createdAt": "string",
      "deleted": boolean,
      "description": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "notFoundIdentifierIds": [
    "string"
  ]
}
```

ValidationException schema

```
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
}
```

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>InternalServerException (p. 165)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

BatchGetCustomDataIdentifierSummary

Provides information about a custom data identifier.

arn

The Amazon Resource Name (ARN) of the custom data identifier.

Type: string
Required: False
**createdAt**
The date and time, in UTC and extended ISO 8601 format, when the custom data identifier was created.

*Type: string*
*Required: False*
*Format: date-time*

**deleted**
Specifies whether the custom data identifier was deleted. If you delete a custom data identifier, Amazon Macie doesn't delete it permanently. Instead, it soft deletes the identifier.

*Type: boolean*
*Required: False*

**description**
The custom description of the custom data identifier.

*Type: string*
*Required: False*

**id**
The unique identifier for the custom data identifier.

*Type: string*
*Required: False*

**name**
The custom name of the custom data identifier.

*Type: string*
*Required: False*

**BatchGetCustomDataIdentifiersRequest**
Specifies one or more custom data identifiers to retrieve information about.

**ids**
An array of custom data identifier IDs, one for each custom data identifier to retrieve information about.

*Type: Array of type string*
*Required: False*

**BatchGetCustomDataIdentifiersResponse**
Provides information about one or more custom data identifiers.

**customDataIdentifiers**
An array of objects, one for each custom data identifier that matches the criteria specified in the request.
Properties

Type: Array of type BatchGetCustomDataIdentifierSummary (p. 165)
Required: False

`notFoundIdentifierIds`

An array of custom data identifier IDs, one for each custom data identifier that was specified in the request but doesn't correlate to an existing custom data identifier.

Type: Array of type string
Required: False

`ConflicException`

Provides information about an error that occurred due to a versioning conflict for a specified resource.

`message`

The explanation of the error that occurred.

Type: string
Required: False

`InternalServerException`

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

`message`

The explanation of the error that occurred.

Type: string
Required: False

`ResourceNotFoundException`

Provides information about an error that occurred because a specified resource wasn't found.

`message`

The explanation of the error that occurred.

Type: string
Required: False

`ServiceQuotaExceededException`

Provides information about an error that occurred due to one or more service quotas for an account.

`message`

The explanation of the error that occurred.

Type: string
ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

BatchGetCustomDataIdentifiers

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Custom Data Identifier List

The Custom Data Identifier List resource represents the repository of custom data identifiers for your Amazon Macie account. A custom data identifier is a set of criteria that you define to detect sensitive data in a data source.

You can use this resource to retrieve a subset of information about all the custom data identifiers for your account. To retrieve detailed information about the detection criteria and other settings for an individual custom data identifier, use the Custom Data Identifier (p. 147) resource.
URI
/custom-data-identifiers/list

HTTP methods
POST

Operation ID: ListCustomDataIdentifiers

Retrieves a subset of information about all the custom data identifiers for an account.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListCustomDataIdentifiersResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 170)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 170)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 170)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 171)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 171)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

POST schema

```json
{
   "maxResults": integer,
```
"nextToken": "string"
}

Response bodies

ListCustomDataIdentifiersResponse schema

{
   "items": [
      {
         "arn": "string",
         "createdAt": "string",
         "description": "string",
         "id": "string",
         "name": "string"
      }
   ],
   "nextToken": "string"
}

ValidationException schema

{
   "message": "string"
}

ServiceQuotaExceededException schema

{
   "message": "string"
}

AccessDeniedException schema

{
   "message": "string"
}

ResourceNotFoundException schema

{
   "message": "string"
}

ConflictException schema

{
   "message": "string"
}
Properties

**AccessDeniedException**

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

**ConflictException**

Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

**CustomDataIdentifierSummary**

Provides information about a custom data identifier.

**arn**

The Amazon Resource Name (ARN) of the custom data identifier.

- **Type:** string
- **Required:** False

**createdAt**

The date and time, in UTC and extended ISO 8601 format, when the custom data identifier was created.

- **Type:** string
Required: False
Format: date-time

description
The custom description of the custom data identifier.
  Type: string
  Required: False

id
The unique identifier for the custom data identifier.
  Type: string
  Required: False

name
The custom name of the custom data identifier.
  Type: string
  Required: False

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.
  Type: string
  Required: False

ListCustomDataIdentifiersRequest
Specifies criteria for paginating the results of a request for information about custom data identifiers.

maxResults
The maximum number of items to include in each page of the response.
  Type: integer
  Required: False
  Format: int32

nextToken
The nextToken string that specifies which page of results to return in a paginated response.
  Type: string
Required: False

**ListCustomDataIdentifiersResponse**

Provides the results of a request for information about custom data identifiers.

**items**

An array of objects, one for each custom data identifier.

- **Type**: Array of type [CustomDataIdentifierSummary](p. 171)
- **Required**: False

**nextToken**

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

- **Type**: string
- **Required**: False

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**ServiceQuotaExceedededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

- **Type**: string
Custom Data Identifier Testing

The Custom Data Identifier Testing resource provides an environment for developing, testing, and refining a custom data identifier. A custom data identifier is a set of criteria that you define to detect sensitive data in a data source. By using custom data identifiers, you can detect sensitive data that reflects your particular scenarios, intellectual property, or proprietary data, and supplement the managed data identifiers that Amazon Macie provides.

When you develop a custom data identifier, you specify a regular expression (regex) that defines a text pattern to match in a data source. You can also specify character sequences, such as words and phrases, and a proximity rule to refine the analysis of data. The character sequences can be: keywords, which are words or phrases that must be in proximity of text that matches the regex, or ignore words, which are words or phrases to exclude from the results. For more information, see Building custom data identifiers in the Amazon Macie User Guide.

You can use the Custom Data Identifier Testing resource to develop, test, and refine a custom data identifier. Note that this resource doesn't create a persistent custom data identifier that you can later access and use in Macie. Instead, it provides a test environment that can help you optimize and refine a custom data identifier by using sample data. When you finish developing and testing a custom data identifier, use the Custom Data Identifier Creation (p. 155) resource to create it.
URI

/custom-data-identifiers/test

HTTP methods

POST

Operation ID: TestCustomDataIdentifier

Tests a custom data identifier.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>TestCustomDataIdentifierResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 176)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 176)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 176)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 176)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 177)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 177)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 178)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

POST schema

```json
{
  "ignoreWords": [
      "string"
  ]
}```
POST schema

```
{
    "ignoreWords": [ "string"
    ],
    "keywords": [ "string"
    ],
    "maximumMatchDistance": integer,
    "regex": "string",
    "sampleText": "string"
}
```

Response bodies

**TestCustomDataIdentifierResponse schema**

```
{
    "matchCount": integer
}
```

**ValidationException schema**

```
{
    "message": "string"
}
```

**ServiceQuotaExceedededException schema**

```
{
    "message": "string"
}
```

**AccessDeniedException schema**

```
{
    "message": "string"
}
```

**ResourceNotFoundException schema**

```
{
    "message": "string"
}
```
ConflictException schema

```json
{
  "message": "string"
}
```

ThrottlingException schema

```json
{
  "message": "string"
}
```

InternalServerException schema

```json
{
  "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.
**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

**ServiceQuotaExceededHttpException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

**TestCustomDataIdentifierRequest**

Specifies the detection criteria of a custom data identifier to test.

**ignoreWords**

An array that lists specific character sequences *(ignore words)* to exclude from the results. If the text matched by the regular expression contains any string in this array, Amazon Macie ignores it. The array can contain as many as 10 ignore words. Each ignore word can contain 4-90 UTF-8 characters. Ignore words are case sensitive.

**keywords**

An array that lists specific character sequences *(keywords)*, one of which must precede and be within proximity *(maximumMatchDistance)* of the regular expression to match. The array can contain as many as 50 keywords. Each keyword can contain 3-90 UTF-8 characters. Keywords aren't case sensitive.

**maximumMatchDistance**

The maximum number of characters that can exist between the end of at least one complete character sequence specified by the *keywords* array and the end of the text that matches the regex pattern. If a complete keyword precedes all the text that matches the pattern and the keyword is within the specified distance, Amazon Macie includes the result. The distance can be 1-300 characters. The default value is 50.
Properties

**Type**
- integer
- Required: False
- Format: int32

**regex**
The regular expression (regex) that defines the pattern to match. The expression can contain as many as 512 characters.
- Type: string
- Required: True

**sampleText**
The sample text to inspect by using the custom data identifier. The text can contain as many as 1,000 characters.
- Type: string
- Required: True

**TestCustomDataIdentifierResponse**
Provides test results for a custom data identifier.

**matchCount**
The number of occurrences of sample text that matched the criteria specified by the custom data identifier.
- Type: integer
- Required: False
- Format: int32

**ThrottlingException**
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**
The explanation of the error that occurred.
- Type: string
- Required: False

**ValidationException**
Provides information about an error that occurred due to a syntax error in a request.

**message**
The explanation of the error that occurred.
- Type: string
Data Sources - Amazon S3

The Amazon S3 Data Sources resource provides statistical data and other information about the Amazon Simple Storage Service (Amazon S3) buckets that Amazon Macie monitors and analyzes for your account. This includes a breakdown of each bucket's public access and encryption settings. It also includes details about the size and number of objects that Macie can analyze to detect sensitive data in a bucket, and whether and when that analysis occurred. The data is available for all the S3 buckets that Macie monitors and analyzes for your account.

Note that complete data is available for an S3 bucket only if Macie can retrieve and process metadata from Amazon S3 for the bucket and the bucket's objects. Errors or permission settings might prevent Macie from retrieving and processing information about a bucket or its objects. If this happens, the statistical data and other information that Macie provides is limited to a subset of the bucket's properties, such as the bucket's name and the account ID of the AWS account that owns the bucket.

You can use the Amazon S3 Data Sources resource to retrieve (query) statistical data and other information about one or more S3 buckets that Macie monitors and analyzes for your account. To customize and refine your query, you can use the supported parameters to specify how to filter, sort, and paginate the query results.

**URI**

/datasources/s3

**HTTP methods**

**POST**

**Operation ID:** DescribeBuckets

Retrieves (queries) statistical data and other information about one or more S3 buckets that Amazon Macie monitors and analyzes for an account.
Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>DescribeBucketsResponse (p. 181)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 183)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 184)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 183)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 183)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 184)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException (p. 184)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

POST schema

```
{
    "criteria": {
    
    },
    "maxResults": integer,
    "nextToken": "string",
    "sortCriteria": {
        "attributeName": "string",
        "orderBy": enum
    }
}
```

Response bodies

DescribeBucketsResponse schema

```
{

```
"buckets": [
   
   "accountId": "string",
   "allowsUnencryptedObjectUploads": enum,
   "bucketArn": "string",
   "bucketCreatedAt": "string",
   "bucketName": "string",
   "classifiableObjectCount": integer,
   "classifiableSizeInBytes": integer,
   "errorCode": enum,
   "errorMessage": "string",
   "jobDetails": {
      "isDefinedInJob": enum,
      "isMonitoredByJob": enum,
      "lastJobId": "string",
      "lastJobRunTime": "string"
   },
   "lastAutomatedDiscoveryTime": "string",
   "lastUpdated": "string",
   "objectCount": integer,
   "objectCountByEncryptionType": {
      "customerManaged": integer,
      "kmsManaged": integer,
      "s3Managed": integer,
      "unencrypted": integer,
      "unknown": integer
   },
   "publicAccess": {
      "effectivePermission": enum,
      "permissionConfiguration": {
         "accountLevelPermissions": {
            "blockPublicAccess": {
               "blockPublicAcls": boolean,
               "blockPublicPolicy": boolean,
               "ignorePublicAcls": boolean,
               "restrictPublicBuckets": boolean
            }
         },
         "bucketLevelPermissions": {
            "accessControlList": {
               "allowsPublicReadAccess": boolean,
               "allowsPublicWriteAccess": boolean
            },
            "blockPublicAccess": {
               "blockPublicAcls": boolean,
               "blockPublicPolicy": boolean,
               "ignorePublicAcls": boolean,
               "restrictPublicBuckets": boolean
            },
            "bucketPolicy": {
               "allowsPublicReadAccess": boolean,
               "allowsPublicWriteAccess": boolean
            }
         }
      }
   },
   "region": "string",
   "replicationDetails": {
      "replicated": boolean,
      "replicatedExternally": boolean,
      "replicationAccounts": [
         "string"
      ]
   },
   "sensitivityScore": integer,
   "serverSideEncryption": {

Schemas

```
"kmsMasterKeyId": "string",
"type": enum
},
"sharedAccess": enum,
"sizeInBytes": integer,
"sizeInBytesCompressed": integer,
"tags": [
  {
    "key": "string",
    "value": "string"
  }
],
"unclassifiableObjectCount": {
  "fileType": integer,
  "storageClass": integer,
  "total": integer
},
"unclassifiableObjectSizeInBytes": {
  "fileType": integer,
  "storageClass": integer,
  "total": integer
},
"versioning": boolean
}],
"nextToken": "string"
}

ValidationException schema

```
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
  "message": "string"
}
```

ResourceNotFoundException schema

```
{
  "message": "string"
}
```

ConflictException schema

```
{
```
Properties

AccessControlList
Provides information about the permissions settings of the bucket-level access control list (ACL) for an S3 bucket.

allowsPublicReadAccess
Specifies whether the ACL grants the general public with read access permissions for the bucket.
  Type: boolean
  Required: False

allowsPublicWriteAccess
Specifies whether the ACL grants the general public with write access permissions for the bucket.
  Type: boolean
  Required: False

AccessDeniedException
Provides information about an error that occurred due to insufficient access to a specified resource.

message
The explanation of the error that occurred.
  Type: string
  Required: False

AccountLevelPermissions
Provides information about the account-level permissions settings that apply to an S3 bucket.
**blockPublicAccess**

The block public access settings for the AWS account that owns the bucket.

- **Type**: BlockPublicAccess (p. 185)
- **Required**: False

**BlockPublicAccess**

Provides information about the block public access settings for an S3 bucket. These settings can apply to a bucket at the account or bucket level. For detailed information about each setting, see Blocking public access to your Amazon S3 storage in the Amazon Simple Storage Service User Guide.

**blockPublicAcls**

Specifies whether Amazon S3 blocks public access control lists (ACLs) for the bucket and objects in the bucket.

- **Type**: boolean
- **Required**: False

**blockPublicPolicy**

Specifies whether Amazon S3 blocks public bucket policies for the bucket.

- **Type**: boolean
- **Required**: False

**ignorePublicAcls**

Specifies whether Amazon S3 ignores public ACLs for the bucket and objects in the bucket.

- **Type**: boolean
- **Required**: False

**restrictPublic Buckets**

Specifies whether Amazon S3 restricts public bucket policies for the bucket.

- **Type**: boolean
- **Required**: False

**BucketCriteria**

Specifies, as a map, one or more property-based conditions that filter the results of a query for information about S3 buckets.

**key-value pairs**

- **Type**: object

**BucketCriteriaAdditionalProperties**

Specifies the operator to use in a property-based condition that filters the results of a query for information about S3 buckets.
eq
The value for the property matches (equals) the specified value. If you specify multiple values, Amazon Macie uses OR logic to join the values.

Type: Array of type string
Required: False

gt
The value for the property is greater than the specified value.

Type: integer
Required: False
Format: int64

gte
The value for the property is greater than or equal to the specified value.

Type: integer
Required: False
Format: int64

lt
The value for the property is less than the specified value.

Type: integer
Required: False
Format: int64

lte
The value for the property is less than or equal to the specified value.

Type: integer
Required: False
Format: int64

neq
The value for the property doesn't match (doesn't equal) the specified value. If you specify multiple values, Amazon Macie uses OR logic to join the values.

Type: Array of type string
Required: False

prefix
The name of the bucket begins with the specified value.

Type: string
Required: False
BucketLevelPermissions

Provides information about the bucket-level permissions settings for an S3 bucket.

accessControlList

The permissions settings of the access control list (ACL) for the bucket. This value is null if an ACL hasn't been defined for the bucket.

  Type: AccessControlList (p. 184)
  Required: False

blockPublicAccess

The block public access settings for the bucket.

  Type: BlockPublicAccess (p. 185)
  Required: False

bucketPolicy

The permissions settings of the bucket policy for the bucket. This value is null if a bucket policy hasn't been defined for the bucket.

  Type: BucketPolicy (p. 192)
  Required: False

BucketMetadata

Provides statistical data and other information about an S3 bucket that Amazon Macie monitors and analyzes for your account. By default, object count and storage size values include data for object parts that are the result of incomplete multipart uploads. For more information, see How Macie monitors Amazon S3 data security in the Amazon Macie User Guide.

If an error occurs when Macie attempts to retrieve and process metadata from Amazon S3 for the bucket or the bucket's objects, the value for the versioning property is false and the value for most other properties is null. Key exceptions are accountId, bucketArn, bucketCreatedAt, bucketName, lastUpdated, and region. To identify the cause of the error, refer to the errorCode and errorMessage values.

accountId

The unique identifier for the AWS account that owns the bucket.

  Type: string
  Required: False

allowsUnencryptedObjectUploads

Specifies whether the bucket policy for the bucket requires server-side encryption of objects when objects are added to the bucket. Possible values are:

- FALSE - The bucket policy requires server-side encryption of new objects. PutObject requests must include a valid server-side encryption header.
• TRUE - The bucket doesn't have a bucket policy or it has a bucket policy that doesn't require server-side encryption of new objects. If a bucket policy exists, it doesn't require PutObject requests to include a valid server-side encryption header.

• UNKNOWN - Amazon Macie can't determine whether the bucket policy requires server-side encryption of new objects.

Valid server-side encryption headers are: x-amz-server-side-encryption with a value of AES256 or aws:kms, and x-amz-server-side-encryption-customer-algorithm with a value of AES256.

Type: string
Required: False
Values: TRUE | FALSE | UNKNOWN

bucketArn

The Amazon Resource Name (ARN) of the bucket.

Type: string
Required: False

bucketCreatedAt

The date and time, in UTC and extended ISO 8601 format, when the bucket was created. This value can also indicate when changes such as edits to the bucket's policy were most recently made to the bucket.

Type: string
Required: False
Format: date-time

bucketName

The name of the bucket.

Type: string
Required: False

classifiableObjectCount

The total number of objects that Amazon Macie can analyze in the bucket. These objects use a supported storage class and have a file name extension for a supported file or storage format.

Type: integer
Required: False
Format: int64

classifiableSizeInBytes

The total storage size, in bytes, of the objects that Amazon Macie can analyze in the bucket. These objects use a supported storage class and have a file name extension for a supported file or storage format.

If versioning is enabled for the bucket, Macie calculates this value based on the size of the latest version of each applicable object in the bucket. This value doesn't reflect the storage size of all versions of each applicable object in the bucket.
Properties

**Type**: integer  
**Required**: False  
**Format**: int64

**errorCode**

The error code for an error that prevented Amazon Macie from retrieving and processing information about the bucket and the bucket's objects. If this value is ACCESS_DENIED, Macie doesn't have permission to retrieve the information. For example, the bucket has a restrictive bucket policy and Amazon S3 denied the request. If this value is null, Macie was able to retrieve and process the information.

**Type**: BucketMetadataErrorCode (p. 192)  
**Required**: False

**errorMessage**

A brief description of the error (errorCode) that prevented Amazon Macie from retrieving and processing information about the bucket and the bucket's objects. This value is null if Macie was able to retrieve and process the information.

**Type**: string  
**Required**: False

**jobDetails**

Specifies whether any one-time or recurring classification jobs are configured to analyze data in the bucket, and, if so, the details of the job that ran most recently.

**Type**: JobDetails (p. 196)  
**Required**: False

**lastAutomatedDiscoveryTime**

The date and time, in UTC and extended ISO 8601 format, when Amazon Macie most recently analyzed data in the bucket while performing automated sensitive data discovery for your account. This value is null if automated sensitive data discovery is currently disabled for your account.

**Type**: string  
**Required**: False  
**Format**: date-time

**lastUpdated**

The date and time, in UTC and extended ISO 8601 format, when Amazon Macie most recently retrieved bucket or object metadata from Amazon S3 for the bucket.

**Type**: string  
**Required**: False  
**Format**: date-time

**objectCount**

The total number of objects in the bucket.
Properties

**Type**: integer
**Required**: False
**Format**: int64

**objectCountByEncryptionType**

The total number of objects in the bucket, grouped by server-side encryption type. This includes a grouping that reports the total number of objects that aren't encrypted or use client-side encryption.

**Type**: ObjectCountByEncryptionType (p. 197)
**Required**: False

**publicAccess**

Specifies whether the bucket is publicly accessible due to the combination of permissions settings that apply to the bucket, and provides information about those settings.

**Type**: BucketPublicAccess (p. 193)
**Required**: False

**region**

The AWS Region that hosts the bucket.

**Type**: string
**Required**: False

**replicationDetails**

Specifies whether the bucket is configured to replicate one or more objects to buckets for other AWS accounts and, if so, which accounts.

**Type**: ReplicationDetails (p. 199)
**Required**: False

**sensitivityScore**

The sensitivity score for the bucket, ranging from -1 (classification error) to 100 (sensitive). This value is null if automated sensitive data discovery is currently disabled for your account.

**Type**: integer
**Required**: False
**Format**: int32

**serverSideEncryption**

The default server-side encryption settings for the bucket.

**Type**: BucketServerSideEncryption (p. 193)
**Required**: False

**sharedAccess**

Specifies whether the bucket is shared with another AWS account, an Amazon CloudFront origin access identity (OAI), or a CloudFront origin access control (OAC). Possible values are:
• EXTERNAL - The bucket is shared with one or more of the following or any combination of the following: a CloudFront OAI, a CloudFront OAC, or an AWS account that isn't part of your Amazon Macie organization.

• INTERNAL - The bucket is shared with one or more AWS accounts that are part of your Amazon Macie organization. It isn't shared with a CloudFront OAI or OAC.

• NOT_SHARED - The bucket isn't shared with another AWS account, a CloudFront OAI, or a CloudFront OAC.

• UNKNOWN - Amazon Macie wasn't able to evaluate the shared access settings for the bucket.

An Amazon Macie organization is a set of Macie accounts that are centrally managed as a group of related accounts through AWS Organizations or by Macie invitation.

**Type**: string  
**Required**: False  
**Values**: EXTERNAL  |  INTERNAL  |  NOT_SHARED  |  UNKNOWN

**sizeInBytes**

The total storage size, in bytes, of the bucket.

If versioning is enabled for the bucket, Amazon Macie calculates this value based on the size of the latest version of each object in the bucket. This value doesn't reflect the storage size of all versions of each object in the bucket.

**Type**: integer  
**Required**: False  
**Format**: int64

**sizeInBytesCompressed**

The total storage size, in bytes, of the objects that are compressed (.gz, .gzip, .zip) files in the bucket.

If versioning is enabled for the bucket, Amazon Macie calculates this value based on the size of the latest version of each applicable object in the bucket. This value doesn't reflect the storage size of all versions of each applicable object in the bucket.

**Type**: integer  
**Required**: False  
**Format**: int64

**tags**

An array that specifies the tags (keys and values) that are associated with the bucket.

**Type**: Array of type [KeyValuePair](p. 197)  
**Required**: False

**unclassifiableObjectCount**

The total number of objects that Amazon Macie can't analyze in the bucket. These objects don't use a supported storage class or don't have a file name extension for a supported file or storage format.

**Type**: [ObjectLevelStatistics](p. 198)
Required: False

**unclassifiableObjectSizeInBytes**

The total storage size, in bytes, of the objects that Amazon Macie can't analyze in the bucket. These objects don't use a supported storage class or don't have a file name extension for a supported file or storage format.

*Type: ObjectLevelStatistics (p. 198)*
*Required: False*

**versioning**

Specifies whether versioning is enabled for the bucket.

*Type: boolean*
*Required: False*

**BucketMetadataErrorCode**

The error code for an error that prevented Amazon Macie from retrieving and processing metadata from Amazon S3 for an S3 bucket and the bucket's objects.

ACCESS_DENIED

**BucketPermissionConfiguration**

Provides information about the account-level and bucket-level permissions settings for an S3 bucket.

**accountLevelPermissions**

The account-level permissions settings that apply to the bucket.

*Type: AccountLevelPermissions (p. 184)*
*Required: False*

**bucketLevelPermissions**

The bucket-level permissions settings for the bucket.

*Type: BucketLevelPermissions (p. 187)*
*Required: False*

**BucketPolicy**

Provides information about the permissions settings of the bucket policy for an S3 bucket.

**allowsPublicReadAccess**

Specifies whether the bucket policy allows the general public to have read access to the bucket.

*Type: boolean*
*Required: False*
allowsPublicWriteAccess

Specifies whether the bucket policy allows the general public to have write access to the bucket.

Type: boolean
Required: False

BucketPublicAccess

Provides information about the permissions settings that determine whether an S3 bucket is publicly accessible.

effectivePermission

Specifies whether the bucket is publicly accessible due to the combination of permissions settings that apply to the bucket. Possible values are:

- NOT_PUBLIC - The bucket isn't publicly accessible.
- PUBLIC - The bucket is publicly accessible.
- UNKNOWN - Amazon Macie can't determine whether the bucket is publicly accessible.

Type: string
Required: False
Values: PUBLIC | NOT_PUBLIC | UNKNOWN

permissionConfiguration

The account-level and bucket-level permissions settings for the bucket.

Type: BucketPermissionConfiguration (p. 192)
Required: False

BucketServerSideEncryption

Provides information about the default server-side encryption settings for an S3 bucket. For detailed information about these settings, see Setting default server-side encryption behavior for Amazon S3 buckets in the Amazon Simple Storage Service User Guide.

kmsMasterKeyId

The Amazon Resource Name (ARN) or unique identifier (key ID) for the AWS KMS key that's used by default to encrypt objects that are added to the bucket. This value is null if the bucket is configured to use an Amazon S3 managed key to encrypt new objects.

Type: string
Required: False

type

The server-side encryption algorithm that's used by default to encrypt objects that are added to the bucket. Possible values are:

- AES256 - New objects are encrypted with an Amazon S3 managed key. They use SSE-S3 encryption.
• `aws:kms` - New objects are encrypted with an AWS KMS key (`kmsMasterKeyId`), either an AWS managed key or a customer managed key. They use SSE-KMS encryption.

• `NONE` - The bucket's default encryption settings don't specify server-side encryption behavior for new objects.

    Type: string
    Required: False
    Values: NONE | AES256 | `aws:kms`

**BucketSortCriteria**

Specifies criteria for sorting the results of a query for information about S3 buckets.

attributeName

The name of the bucket property to sort the results by. This value can be one of the following properties that Amazon Macie defines as bucket metadata: `accountId`, `bucketName`, `classifiableObjectCount`, `classifiableSizeInBytes`, `objectCount`, `sensitivityScore`, or `sizeInBytes`.

    Type: string
    Required: False

orderBy

The sort order to apply to the results, based on the value specified by the `attributeName` property. Valid values are: ASC, sort the results in ascending order; and, DESC, sort the results in descending order.

    Type: string
    Required: False
    Values: ASC | DESC

**ConflictException**

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

    Type: string
    Required: False

**DescribeBucketsRequest**

Specifies criteria for filtering, sorting, and paginating the results of a query for statistical data and other information about S3 buckets.

criteria

The criteria to use to filter the query results.

    Type: BucketCriteria (p. 185)
Required: False

**maxResults**
The maximum number of items to include in each page of the response. The default value is 50.

  **Type:** integer  
  **Required:** False  
  **Format:** int32

**nextToken**
The nextToken string that specifies which page of results to return in a paginated response.

  **Type:** string  
  **Required:** False

**sortCriteria**
The criteria to use to sort the query results.

  **Type:** BucketSortCriteria (p. 194)  
  **Required:** False

**DescribeBucketsResponse**
Provides the results of a query that retrieved statistical data and other information about one or more S3 buckets that Amazon Macie monitors and analyzes for your account.

**buckets**
An array of objects, one for each bucket that matches the filter criteria specified in the request.

  **Type:** Array of type BucketMetadata (p. 187)  
  **Required:** False

**nextToken**
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

  **Type:** string  
  **Required:** False

**InternalServerException**
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**
The explanation of the error that occurred.

  **Type:** string  
  **Required:** False
JobDetails

Specifies whether any one-time or recurring classification jobs are configured to analyze data in an S3 bucket, and, if so, the details of the job that ran most recently.

isDefinedInJob

Specifies whether any one-time or recurring jobs are configured to analyze data in the bucket. Possible values are:

- **TRUE** - The bucket is explicitly included in the bucket definition (S3BucketDefinitionForJob) for one or more jobs and at least one of those jobs has a status other than CANCELLED. Or the bucket matched the bucket criteria (S3BucketCriteriaForJob) for at least one job that previously ran.
- **FALSE** - The bucket isn't explicitly included in the bucket definition (S3BucketDefinitionForJob) for any jobs, all the jobs that explicitly include the bucket in their bucket definitions have a status of CANCELLED, or the bucket didn't match the bucket criteria (S3BucketCriteriaForJob) for any jobs that previously ran.
- **UNKNOWN** - An exception occurred when Amazon Macie attempted to retrieve job data for the bucket.

Type: string
Required: False
Values: TRUE | FALSE | UNKNOWN

isMonitoredByJob

Specifies whether any recurring jobs are configured to analyze data in the bucket. Possible values are:

- **TRUE** - The bucket is explicitly included in the bucket definition (S3BucketDefinitionForJob) for one or more recurring jobs or the bucket matches the bucket criteria (S3BucketCriteriaForJob) for one or more recurring jobs. At least one of those jobs has a status other than CANCELLED.
- **FALSE** - The bucket isn't explicitly included in the bucket definition (S3BucketDefinitionForJob) for any recurring jobs, the bucket doesn't match the bucket criteria (S3BucketCriteriaForJob) for any recurring jobs, or all the recurring jobs that are configured to analyze data in the bucket have a status of CANCELLED.
- **UNKNOWN** - An exception occurred when Amazon Macie attempted to retrieve job data for the bucket.

Type: string
Required: False
Values: TRUE | FALSE | UNKNOWN

lastJobId

The unique identifier for the job that ran most recently and is configured to analyze data in the bucket, either the latest run of a recurring job or the only run of a one-time job.

This value is typically null if the value for the isDefinedInJob property is FALSE or UNKNOWN.

Type: string
Required: False

lastJobRunTime

The date and time, in UTC and extended ISO 8601 format, when the job (lastJobId) started. If the job is a recurring job, this value indicates when the most recent run started.
This value is typically null if the value for the `isDefinedInJob` property is FALSE or UNKNOWN.

**Type**: string  
**Required**: False  
**Format**: date-time

### KeyValueCollection

Provides information about the tags that are associated with an S3 bucket or object. Each tag consists of a required tag key and an associated tag value.

**key**

One part of a key-value pair that comprises a tag. A tag key is a general label that acts as a category for more specific tag values.

**Type**: string  
**Required**: False

**value**

One part of a key-value pair that comprises a tag. A tag value acts as a descriptor for a tag key. A tag value can be an empty string.

**Type**: string  
**Required**: False

### ObjectCountByEncryptionType

Provides information about the number of objects that are in an S3 bucket and use certain types of server-side encryption, use client-side encryption, or aren't encrypted.

**customerManaged**

The total number of objects that are encrypted with a customer-provided key. The objects use customer-provided server-side encryption (SSE-C).

**Type**: integer  
**Required**: False  
**Format**: int64

**kmsManaged**

The total number of objects that are encrypted with an AWS KMS key, either an AWS managed key or a customer managed key. The objects use AWS KMS encryption (SSE-KMS).

**Type**: integer  
**Required**: False  
**Format**: int64

**s3Managed**

The total number of objects that are encrypted with an Amazon S3 managed key. The objects use Amazon S3 managed encryption (SSE-S3).
Type: integer  
Required: False  
Format: int64

unencrypted
The total number of objects that use client-side encryption or aren't encrypted.

Type: integer  
Required: False  
Format: int64

unknown
The total number of objects that Amazon Macie doesn't have current encryption metadata for. Macie can't provide current data about the encryption settings for these objects.

Type: integer  
Required: False  
Format: int64

ObjectLevelStatistics
Provides information about the total storage size (in bytes) or number of objects that Amazon Macie can't analyze in one or more S3 buckets. In a BucketMetadata or MatchingBucket object, this data is for a specific bucket. In a GetBucketStatisticsResponse object, this data is aggregated for all the buckets in the query results. If versioning is enabled for a bucket, storage size values are based on the size of the latest version of each applicable object in the bucket.

fileType
The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects don't have a file name extension for a supported file or storage format.

Type: integer  
Required: False  
Format: int64

storageClass
The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects use an unsupported storage class.

Type: integer  
Required: False  
Format: int64

total
The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects use an unsupported storage class or don't have a file name extension for a supported file or storage format.

Type: integer
Properties

**Required**: False  
**Format**: int64

**ReplicationDetails**

Provides information about settings that define whether one or more objects in an S3 bucket are replicated to S3 buckets for other AWS accounts and, if so, which accounts.

**replicated**

Specifies whether the bucket is configured to replicate one or more objects to any destination.

**Type**: boolean  
**Required**: False

**replicatedExternally**

Specifies whether the bucket is configured to replicate one or more objects to a bucket for an AWS account that isn’t part of your Amazon Macie organization. An Amazon Macie organization is a set of Macie accounts that are centrally managed as a group of related accounts through AWS Organizations or by Macie invitation.

**Type**: boolean  
**Required**: False

**replicationAccounts**

An array of AWS account IDs, one for each AWS account that owns a bucket that the bucket is configured to replicate one or more objects to.

**Type**: Array of type string  
**Required**: False

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn’t found.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

**Type**: string
ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string

Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string

Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DescribeBuckets

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Sources - Amazon S3 Statistics

The Amazon S3 Data Source Statistics resource provides aggregated statistical data for all the Amazon Simple Storage Service (Amazon S3) buckets that Amazon Macie monitors and analyzes for your account. This includes data for key security metrics such as the number of S3 buckets that are publicly accessible or are shared with other AWS accounts. If automated sensitive data discovery is currently enabled for your account, this resource also provides aggregated data for sensitive data discovery metrics such as the total number of S3 buckets that Macie has found sensitive data in.
You can use the Amazon S3 Data Source Statistics resource to retrieve (query) aggregated data for data security and sensitivity metrics that apply to all the S3 buckets that Macie monitors and analyzes for your account. To retrieve additional data for these buckets, use the Amazon S3 Data Sources (p. 180) resource.

**URI**

/datasources/s3/statistics

**HTTP methods**

**POST**

**Operation ID:** GetBucketStatistics

Retrieves (queries) aggregated statistical data about all the S3 buckets that Amazon Macie monitors and analyzes for an account.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetBucketStatisticsResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**Schemas**

**Request bodies**
POST schema

```json
{
  "accountId": "string"
}
```

Response bodies

GetBucketStatisticsResponse schema

```json
{
  "bucketCount": integer,
  "bucketCountByEffectivePermission": {
    "publiclyAccessible": integer,
    "publiclyReadable": integer,
    "publiclyWritable": integer,
    "unknown": integer
  },
  "bucketCountByEncryptionType": {
    "kmsManaged": integer,
    "s3Managed": integer,
    "unencrypted": integer,
    "unknown": integer
  },
  "bucketCountByObjectEncryptionRequirement": {
    "allowsUnencryptedObjectUploads": integer,
    "deniesUnencryptedObjectUploads": integer,
    "unknown": integer
  },
  "bucketCountBySharedAccessType": {
    "external": integer,
    "internal": integer,
    "notShared": integer,
    "unknown": integer
  },
  "bucketStatisticsBySensitivity": {
    "classificationError": {
      "classifiableSizeInBytes": integer,
      "publiclyAccessibleCount": integer,
      "totalCount": integer,
      "totalSizeInBytes": integer
    },
    "notClassified": {
      "classifiableSizeInBytes": integer,
      "publiclyAccessibleCount": integer,
      "totalCount": integer,
      "totalSizeInBytes": integer
    },
    "notSensitive": {
      "classifiableSizeInBytes": integer,
      "publiclyAccessibleCount": integer,
      "totalCount": integer,
      "totalSizeInBytes": integer
    },
    "sensitive": {
      "classifiableSizeInBytes": integer,
      "publiclyAccessibleCount": integer,
      "totalCount": integer,
      "totalSizeInBytes": integer
    }
  },
  "classifiableObjectCount": integer,
  "classifiableSizeInBytes": integer,
  "totalCount": integer,
  "totalSizeInBytes": integer
}
```
"lastUpdated": "string",
"objectCount": integer,
"sizeInBytes": integer,
"sizeInBytesCompressed": integer,
"unclassifiableObjectCount": {
  "FileType": integer,
  "storageClass": integer,
  "total": integer
},
"unclassifiableObjectSizeInBytes": {
  "fileType": integer,
  "storageClass": integer,
  "total": integer
}
}

ValidationException schema

{
  "message": "string"
}

ServiceQuotaExceededException schema

{
  "message": "string"
}

AccessDeniedException schema

{
  "message": "string"
}

ResourceNotFoundException schema

{
  "message": "string"
}

ConflictException schema

{
  "message": "string"
}

ThrottlingException schema

{
  "message": "string"
}
InternalServerException schema

{
  "message": "string"
}

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

BucketCountByEffectivePermission

Provides information about the number of S3 buckets that are publicly accessible due to a combination of permissions settings for each bucket.

publiclyAccessible

The total number of buckets that allow the general public to have read or write access to the bucket.

  Type: integer
  Required: False
  Format: int64

publiclyReadable

The total number of buckets that allow the general public to have read access to the bucket.

  Type: integer
  Required: False
  Format: int64

publiclyWritable

The total number of buckets that allow the general public to have write access to the bucket.

  Type: integer
  Required: False
  Format: int64

unknown

The total number of buckets that Amazon Macie wasn't able to evaluate permissions settings for. Macie can't determine whether these buckets are publicly accessible.
Properties

BucketCountByEncryptionType

Provides information about the number of S3 buckets whose settings do or don't specify default server-side encryption behavior for objects that are added to the buckets. For detailed information about these settings, see Setting default server-side encryption behavior for Amazon S3 buckets in the Amazon Simple Storage Service User Guide.

kmsManaged

The total number of buckets whose default encryption settings are configured to encrypt new objects with an AWS managed AWS KMS key or a customer managed AWS KMS key. By default, these buckets encrypt new objects automatically using SSE-KMS encryption.

Type: integer
Required: False
Format: int64

s3Managed

The total number of buckets whose default encryption settings are configured to encrypt new objects with an Amazon S3 managed key. By default, these buckets encrypt new objects automatically using SSE-S3 encryption.

Type: integer
Required: False
Format: int64

unencrypted

The total number of buckets that don't specify default server-side encryption behavior for new objects. Default encryption settings aren't configured for these buckets.

Type: integer
Required: False
Format: int64

unknown

The total number of buckets that Amazon Macie doesn't have current encryption metadata for. Macie can't provide current data about the default encryption settings for these buckets.

Type: integer
Required: False
Format: int64

BucketCountBySharedAccessType

Provides information about the number of S3 buckets that are or aren't shared with other AWS accounts, Amazon CloudFront origin access identities (OAlis), or CloudFront origin access controls (OACs). In this

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data, an Amazon Macie organization is defined as a set of Macie accounts that are centrally managed as a
group of related accounts through AWS Organizations or by Macie invitation.

**external**

The total number of buckets that are shared with one or more of the following or any combination of
the following: an Amazon CloudFront OAI, a CloudFront OAC, or an AWS account that isn't in the same
Amazon Macie organization.

<table>
<thead>
<tr>
<th>Type</th>
<th>integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>False</td>
</tr>
<tr>
<td>Format</td>
<td>int64</td>
</tr>
</tbody>
</table>

**internal**

The total number of buckets that are shared with one or more AWS accounts in the same Amazon Macie
organization. These buckets aren't shared with Amazon CloudFront OAI or OACs.

<table>
<thead>
<tr>
<th>Type</th>
<th>integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>False</td>
</tr>
<tr>
<td>Format</td>
<td>int64</td>
</tr>
</tbody>
</table>

**notShared**

The total number of buckets that aren't shared with other AWS accounts, Amazon CloudFront OAI, or
CloudFront OAC.

<table>
<thead>
<tr>
<th>Type</th>
<th>integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>False</td>
</tr>
<tr>
<td>Format</td>
<td>int64</td>
</tr>
</tbody>
</table>

**unknown**

The total number of buckets that Amazon Macie wasn't able to evaluate shared access settings for. Macie
can't determine whether these buckets are shared with other AWS accounts, Amazon CloudFront OAI or
CloudFront OAC.

<table>
<thead>
<tr>
<th>Type</th>
<th>integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>False</td>
</tr>
<tr>
<td>Format</td>
<td>int64</td>
</tr>
</tbody>
</table>

**BucketCountPolicyAllowsUnencryptedObjectUploads**

Provides information about the number of S3 buckets whose bucket policies do or don't require server-
side encryption of objects when objects are added to the buckets.

**allowsUnencryptedObjectUploads**

The total number of buckets that don't have a bucket policy or have a bucket policy that doesn't require
server-side encryption of objects. If a bucket policy exists, the policy doesn't require PutObject
requests to include a valid server-side encryption header: the x-amz-server-side-encryption
header with a value of AES256 or aws:kms, or the x-amz-server-side-encryption-customer-
algorithm header with a value of AES256.

| Type       | integer  |
Required: False
Format: int64

deniesUnencryptedObjectUploads

The total number of buckets whose bucket policies require server-side encryption of new objects. PutObject requests for these buckets must include a valid server-side encryption header: the x-amz-server-side-encryption header with a value of AES256 or aws:kms, or the x-amz-server-side-encryption-customer-algorithm header with a value of AES256.

Type: integer
Required: False
Format: int64

unknown

The total number of buckets that Amazon Macie wasn't able to evaluate server-side encryption requirements for. Macie can't determine whether the bucket policies for these buckets require server-side encryption of new objects.

Type: integer
Required: False
Format: int64

BucketStatisticsBySensitivity

Provides aggregated statistical data for sensitive data discovery metrics that apply to S3 buckets, grouped by bucket sensitivity score (sensitivityScore). If automated sensitive data discovery is currently disabled for your account, the value for each metric is 0.

classificationError

The aggregated statistical data for all buckets that have a sensitivity score of -1.

Type: SensitivityAggregations (p. 212)
Required: False

notClassified

The aggregated statistical data for all buckets that have a sensitivity score of 50.

Type: SensitivityAggregations (p. 212)
Required: False

notSensitive

The aggregated statistical data for all buckets that have a sensitivity score of 1-49.

Type: SensitivityAggregations (p. 212)
Required: False

sensitive

The aggregated statistical data for all buckets that have a sensitivity score of 51-100.
**ConflictException**

Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**

The explanation of the error that occurred.

**GetBucketStatisticsRequest**

Specifies the account that owns the S3 buckets to retrieve aggregated statistical data for.

**accountId**

The unique identifier for the AWS account.

**GetBucketStatisticsResponse**

Provides the results of a query that retrieved aggregated statistical data for all the S3 buckets that Amazon Macie monitors and analyzes for your account. By default, object count and storage size values include data for object parts that are the result of incomplete multipart uploads. For more information, see [How Macie monitors Amazon S3 data security](https://docs.aws.amazon.com/macie/latest/userguide/how-macie-monitors-data-security.html) in the *Amazon Macie User Guide*.

**bucketCount**

The total number of buckets.

**bucketCountByEffectivePermission**

The total number of buckets that are publicly accessible due to a combination of permissions settings for each bucket.

**bucketCountByEncryptionType**

The total number of buckets whose settings do or don't specify default server-side encryption behavior for objects that are added to the buckets.
bucketCountByObjectEncryptionRequirement

The total number of buckets whose bucket policies do or don't require server-side encryption of objects when objects are added to the buckets.

Type: BucketCountPolicyAllowsUnencryptedObjectUploads (p. 206)
Required: False

bucketCountBySharedAccessType

The total number of buckets that are or aren't shared with other AWS accounts, Amazon CloudFront origin access identities (OAI), or CloudFront origin access controls (OAC).

Type: BucketCountBySharedAccessType (p. 205)
Required: False

bucketStatisticsBySensitivity

The aggregated sensitive data discovery statistics for the buckets. If automated sensitive data discovery is currently disabled for your account, the value for each statistic is 0.

Type: BucketStatisticsBySensitivity (p. 207)
Required: False

classifiableObjectCount

The total number of objects that Amazon Macie can analyze in the buckets. These objects use a supported storage class and have a file name extension for a supported file or storage format.

Type: integer
Required: False
Format: int64

classifiableSizeInBytes

The total storage size, in bytes, of all the objects that Amazon Macie can analyze in the buckets. These objects use a supported storage class and have a file name extension for a supported file or storage format.

If versioning is enabled for any of the buckets, this value is based on the size of the latest version of each applicable object in the buckets. This value doesn't reflect the storage size of all versions of all applicable objects in the buckets.

Type: integer
Required: False
Format: int64

lastUpdated

The date and time, in UTC and extended ISO 8601 format, when Amazon Macie most recently retrieved bucket or object metadata from Amazon S3 for the buckets.

Type: string
Required: False
Format: date-time

**objectCount**

The total number of objects in the buckets.

- **Type:** integer
- **Required:** False
- **Format:** int64

**sizeInBytes**

The total storage size, in bytes, of the buckets.

If versioning is enabled for any of the buckets, this value is based on the size of the latest version of each object in the buckets. This value doesn’t reflect the storage size of all versions of the objects in the buckets.

- **Type:** integer
- **Required:** False
- **Format:** int64

**sizeInBytesCompressed**

The total storage size, in bytes, of the objects that are compressed (.gz, .gzip, .zip) files in the buckets.

If versioning is enabled for any of the buckets, this value is based on the size of the latest version of each applicable object in the buckets. This value doesn’t reflect the storage size of all versions of the applicable objects in the buckets.

- **Type:** integer
- **Required:** False
- **Format:** int64

**unclassifiableObjectCount**

The total number of objects that Amazon Macie can’t analyze in the buckets. These objects don’t use a supported storage class or don’t have a file name extension for a supported file or storage format.

- **Type:** ObjectLevelStatistics (p. 211)
- **Required:** False

**unclassifiableObjectSizeInBytes**

The total storage size, in bytes, of the objects that Amazon Macie can’t analyze in the buckets. These objects don’t use a supported storage class or don’t have a file name extension for a supported file or storage format.

- **Type:** ObjectLevelStatistics (p. 211)
- **Required:** False

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.
message

The explanation of the error that occurred.

  Type: string
  Required: False

ObjectLevelStatistics

Provides information about the total storage size (in bytes) or number of objects that Amazon Macie can't analyze in one or more S3 buckets. In a BucketMetadata or MatchingBucket object, this data is for a specific bucket. In a GetBucketStatisticsResponse object, this data is aggregated for all the buckets in the query results. If versioning is enabled for a bucket, storage size values are based on the size of the latest version of each applicable object in the bucket.

fileType

The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects don't have a file name extension for a supported file or storage format.

  Type: integer
  Required: False
  Format: int64

storageClass

The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects use an unsupported storage class.

  Type: integer
  Required: False
  Format: int64

total

The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects use an unsupported storage class or don't have a file name extension for a supported file or storage format.

  Type: integer
  Required: False
  Format: int64

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

  Type: string
  Required: False
SensitivityAggregations

Provides aggregated statistical data for sensitive data discovery metrics that apply to S3 buckets. Each field contains aggregated data for all the buckets that have a sensitivity score (sensitivityScore) of a specified value or within a specified range (BucketStatisticsBySensitivity). If automated sensitive data discovery is currently disabled for your account, the value for each field is 0.

**classifiableSizeInBytes**

The total storage size, in bytes, of all the objects that Amazon Macie can analyze in the buckets. These objects use a supported storage class and have a file name extension for a supported file or storage format.

If versioning is enabled for any of the buckets, this value is based on the size of the latest version of each applicable object in the buckets. This value doesn't reflect the storage size of all versions of all applicable objects in the buckets.

  **Type:** integer  
  **Required:** False  
  **Format:** int64

**publiclyAccessibleCount**

The total number of buckets that are publicly accessible due to a combination of permissions settings for each bucket.

  **Type:** integer  
  **Required:** False  
  **Format:** int64

**totalCount**

The total number of buckets.

  **Type:** integer  
  **Required:** False  
  **Format:** int64

**totalSizeInBytes**

The total storage size, in bytes, of the buckets.

If versioning is enabled for any of the buckets, this value is based on the size of the latest version of each object in the buckets. This value doesn't reflect the storage size of all versions of the objects in the buckets.

  **Type:** integer  
  **Required:** False  
  **Format:** int64

**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.
ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetBucketStatistics

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Sources - Search

The Search Data Sources resource provides statistical data and other information about AWS resources that Amazon Macie monitors and analyzes for your account. The information includes quantitative breakdowns that indicate how much data Macie can analyze to detect sensitive data in a resource, and whether and when that analysis occurred. The data is available for all the AWS resources that Macie monitors and analyzes for your account.
Note that complete data is available for a resource only if Macie can retrieve and process information about the resource. If a resource's permissions settings or an error prevents Macie from retrieving and processing information about a resource, the available statistical data and other information is limited. In this case, the data includes only a subset of the resource's properties, such as the name of the resource and the account ID for the AWS account that owns the resource.

In addition to querying data, you can use this resource to build, test, and refine runtime criteria for new classification jobs. These criteria can determine which Amazon Simple Storage Service (Amazon S3) buckets a job analyzes when it runs. For existing classification jobs, you can use this resource to create a snapshot of the S3 buckets that currently match the criteria. The SearchResourcesBucketCriteria structure for the Search Data Sources resource is the same as the S3BucketCriteriaForJob structure for classification jobs. To learn more about specifying runtime criteria for jobs, see Scope options for jobs in the Amazon Macie User Guide.

You can use the Search Data Sources resource to query (retrieve) statistical data and other information about AWS resources that Macie monitors and analyzes for your account. To customize and refine your query, you can use the supported parameters to specify how to filter, sort, and paginate the query results. You can also use this resource to build and test S3 bucket criteria for classification jobs.

**URI**

`/datasources/search-resources`

**HTTP methods**

**POST**

**Operation ID:** SearchResources

Retrieves (queries) statistical data and other information about AWS resources that Amazon Macie monitors and analyzes.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>SearchResourcesResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 216)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 217)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 217)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 217)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 217)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
</tbody>
</table>
Status code | Response model | Description
--- | --- | ---
429 | ThrottlingException (p. 217) | The request failed because you sent too many requests during a certain amount of time.
500 | InternalServerException (p. 217) | The request failed due to an unknown internal server error, exception, or failure.

## Schemas

### Request bodies

**POST schema**

```json
{
  "bucketCriteria": {
    "excludes": {
      "and": [
        {
          "simpleCriterion": {
            "comparator": enum,
            "key": enum,
            "values": ["string"
          ],
        },
        "tagCriterion": {
          "comparator": enum,
          "tagValues": [
            {
              "key": "string",
              "value": "string"
            }
          ]
        }
      ]
    },
    "includes": {
      "and": [
        {
          "simpleCriterion": {
            "comparator": enum,
            "key": enum,
            "values": ["string"
          ],
        },
        "tagCriterion": {
          "comparator": enum,
          "tagValues": [
            {
              "key": "string",
              "value": "string"
            }
          ]
        }
      ]
    }
  }
}
```
Response bodies

SearchResourcesResponse schema

```json
{
  "matchingResources": [
    {
      "accountId": "string",
      "bucketName": "string",
      "classifiableObjectCount": integer,
      "classifiableSizeInBytes": integer,
      "errorCode": enum,
      "errorMessage": "string",
      "jobDetails": {
        "isDefinedInJob": enum,
        "isMonitoredByJob": enum,
        "lastJobId": "string",
        "lastJobRunTime": "string"
      },
      "lastAutomatedDiscoveryTime": "string",
      "objectCount": integer,
      "objectCountByEncryptionType": {
        "customerManaged": integer,
        "kmsManaged": integer,
        "s3Managed": integer,
        "unencrypted": integer,
        "unknown": integer
      },
      "sensitivityScore": integer,
      "sizeInBytes": integer,
      "sizeInBytesCompressed": integer,
      "unclassifiableObjectCount": {
        "fileType": integer,
        "storageClass": integer,
        "total": integer
      },
      "unclassifiableObjectSizeInBytes": {
        "fileType": integer,
        "storageClass": integer,
        "total": integer
      }
    }
  ],
  "nextToken": "string"
}
```

ValidationException schema

```json
{
  "message": "string"
}
```
ServiceQuotaExceededException schema

{
    "message": "string"
}

AccessDeniedException schema

{
    "message": "string"
}

ResourceNotFoundException schema

{
    "message": "string"
}

ConflictException schema

{
    "message": "string"
}

ThrottlingException schema

{
    "message": "string"
}

InternalServerException schema

{
    "message": "string"
}

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False
BucketMetadataErrorCode

The error code for an error that prevented Amazon Macie from retrieving and processing metadata from Amazon S3 for an S3 bucket and the bucket's objects.

ACCESS_DENIED

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

JobDetails

Specifies whether any one-time or recurring classification jobs are configured to analyze data in an S3 bucket, and, if so, the details of the job that ran most recently.

isDefinedInJob

Specifies whether any one-time or recurring jobs are configured to analyze data in the bucket. Possible values are:

- TRUE - The bucket is explicitly included in the bucket definition (S3BucketDefinitionForJob) for one or more jobs and at least one of those jobs has a status other than CANCELLED. Or the bucket matched the bucket criteria (S3BucketCriteriaForJob) for at least one job that previously ran.
- FALSE - The bucket isn't explicitly included in the bucket definition (S3BucketDefinitionForJob) for any jobs, all the jobs that explicitly include the bucket in their bucket definitions have a status of CANCELLED, or the bucket didn't match the bucket criteria (S3BucketCriteriaForJob) for any jobs that previously ran.
- UNKNOWN - An exception occurred when Amazon Macie attempted to retrieve job data for the bucket.

Type: string
Required: False
Values: TRUE | FALSE | UNKNOWN
isMonitoredByJob

Specifies whether any recurring jobs are configured to analyze data in the bucket. Possible values are:

- TRUE - The bucket is explicitly included in the bucket definition (S3BucketDefinitionForJob) for one or more recurring jobs or the bucket matches the bucket criteria (S3BucketCriteriaForJob) for one or more recurring jobs. At least one of those jobs has a status other than CANCELLED.
- FALSE - The bucket isn't explicitly included in the bucket definition (S3BucketDefinitionForJob) for any recurring jobs, the bucket doesn't match the bucket criteria (S3BucketCriteriaForJob) for any recurring jobs, or all the recurring jobs that are configured to analyze data in the bucket have a status of CANCELLED.
- UNKNOWN - An exception occurred when Amazon Macie attempted to retrieve job data for the bucket.

Type: string
Required: False
Values: TRUE | FALSE | UNKNOWN

lastJobId

The unique identifier for the job that ran most recently and is configured to analyze data in the bucket, either the latest run of a recurring job or the only run of a one-time job.

This value is typically null if the value for the isDefinedInJob property is FALSE or UNKNOWN.

Type: string
Required: False

lastJobRunTime

The date and time, in UTC and extended ISO 8601 format, when the job (lastJobId) started. If the job is a recurring job, this value indicates when the most recent run started.

This value is typically null if the value for the isDefinedInJob property is FALSE or UNKNOWN.

Type: string
Required: False
Format: date-time

MatchingBucket

Provides statistical data and other information about an S3 bucket that Amazon Macie monitors and analyzes for your account. By default, object count and storage size values include data for object parts that are the result of incomplete multipart uploads. For more information, see How Macie monitors Amazon S3 data security in the Amazon Macie User Guide.

If an error occurs when Macie attempts to retrieve and process information about the bucket or the bucket's objects, the value for most of these properties is null. Key exceptions are accountId and bucketName. To identify the cause of the error, refer to the errorCode and errorMessage values.

accountId

The unique identifier for the AWS account that owns the bucket.

Type: string
Required: False
**bucketName**

The name of the bucket.

  Type: string  
  Required: False

**classifiableObjectCount**

The total number of objects that Amazon Macie can analyze in the bucket. These objects use a supported storage class and have a file name extension for a supported file or storage format.

  Type: integer  
  Required: False  
  Format: int64

**classifiableSizeInBytes**

The total storage size, in bytes, of the objects that Amazon Macie can analyze in the bucket. These objects use a supported storage class and have a file name extension for a supported file or storage format.

If versioning is enabled for the bucket, Macie calculates this value based on the size of the latest version of each applicable object in the bucket. This value doesn't reflect the storage size of all versions of each applicable object in the bucket.

  Type: integer  
  Required: False  
  Format: int64

**errorCode**

The error code for an error that prevented Amazon Macie from retrieving and processing information about the bucket and the bucket's objects. If this value is ACCESS_DENIED, Macie doesn't have permission to retrieve the information. For example, the bucket has a restrictive bucket policy and Amazon S3 denied the request. If this value is null, Macie was able to retrieve and process the information.

  Type: BucketMetadataErrorCode (p. 218)  
  Required: False

**errorMessage**

A brief description of the error (errorCode) that prevented Amazon Macie from retrieving and processing information about the bucket and the bucket's objects. This value is null if Macie was able to retrieve and process the information.

  Type: string  
  Required: False

**jobDetails**

Specifies whether any one-time or recurring classification jobs are configured to analyze objects in the bucket, and, if so, the details of the job that ran most recently.
Type: JobDetails (p. 218)
Required: False

lastAutomatedDiscoveryTime

The date and time, in UTC and extended ISO 8601 format, when Amazon Macie most recently analyzed data in the bucket while performing automated sensitive data discovery for your account. This value is null if automated sensitive data discovery is currently disabled for your account.

Type: string
Required: False
Format: date-time

objectCount

The total number of objects in the bucket.

Type: integer
Required: False
Format: int64

objectCountByEncryptionType

The total number of objects in the bucket, grouped by server-side encryption type. This includes a grouping that reports the total number of objects that aren't encrypted or use client-side encryption.

Type: ObjectCountByEncryptionType (p. 222)
Required: False

sensitivityScore

The current sensitivity score for the bucket, ranging from -1 (classification error) to 100 (sensitive). This value is null if automated sensitive data discovery is currently disabled for your account.

Type: integer
Required: False
Format: int32

sizeInBytes

The total storage size, in bytes, of the bucket.

If versioning is enabled for the bucket, Amazon Macie calculates this value based on the size of the latest version of each object in the bucket. This value doesn't reflect the storage size of all versions of each object in the bucket.

Type: integer
Required: False
Format: int64

sizeInBytesCompressed

The total storage size, in bytes, of the objects that are compressed (.gz, .gzip, .zip) files in the bucket.
If versioning is enabled for the bucket, Amazon Macie calculates this value based on the size of the latest version of each applicable object in the bucket. This value doesn't reflect the storage size of all versions of each applicable object in the bucket.

**Type:** integer  
**Required:** False  
**Format:** int64

**unclassifiableObjectCount**

The total number of objects that Amazon Macie can't analyze in the bucket. These objects don't use a supported storage class or don't have a file name extension for a supported file or storage format.

**Type:** [ObjectLevelStatistics](p. 223)  
**Required:** False

**unclassifiableObjectSizeInBytes**

The total storage size, in bytes, of the objects that Amazon Macie can't analyze in the bucket. These objects don't use a supported storage class or don't have a file name extension for a supported file or storage format.

**Type:** [ObjectLevelStatistics](p. 223)  
**Required:** False

**MatchingResource**

Provides statistical data and other information about an AWS resource that Amazon Macie monitors and analyzes for your account.

**matchingBucket**

The details of an S3 bucket that Amazon Macie monitors and analyzes.

**Type:** [MatchingBucket](p. 219)  
**Required:** False

**ObjectCountByEncryptionType**

Provides information about the number of objects that are in an S3 bucket and use certain types of server-side encryption, use client-side encryption, or aren't encrypted.

**customerManaged**

The total number of objects that are encrypted with a customer-provided key. The objects use customer-provided server-side encryption (SSE-C).

**Type:** integer  
**Required:** False  
**Format:** int64

**kmsManaged**

The total number of objects that are encrypted with an AWS KMS key, either an AWS managed key or a customer managed key. The objects use AWS KMS encryption (SSE-KMS).
Properties

**s3Managed**

The total number of objects that are encrypted with an Amazon S3 managed key. The objects use Amazon S3 managed encryption (SSE-S3).

- **Type**: integer
- **Required**: False
- **Format**: int64

**unencrypted**

The total number of objects that use client-side encryption or aren't encrypted.

- **Type**: integer
- **Required**: False
- **Format**: int64

**unknown**

The total number of objects that Amazon Macie doesn't have current encryption metadata for. Macie can't provide current data about the encryption settings for these objects.

- **Type**: integer
- **Required**: False
- **Format**: int64

**ObjectLevelStatistics**

Provides information about the total storage size (in bytes) or number of objects that Amazon Macie can't analyze in one or more S3 buckets. In a BucketMetadata or MatchingBucket object, this data is for a specific bucket. In a GetBucketStatisticsResponse object, this data is aggregated for all the buckets in the query results. If versioning is enabled for a bucket, storage size values are based on the size of the latest version of each applicable object in the bucket.

**fileType**

The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects don't have a file name extension for a supported file or storage format.

- **Type**: integer
- **Required**: False
- **Format**: int64

**storageClass**

The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects use an unsupported storage class.

- **Type**: integer
- **Required**: False
**total**

The total storage size (in bytes) or number of objects that Amazon Macie can't analyze because the objects use an unsupported storage class or don't have a file name extension for a supported file or storage format.

- **Type:** integer
- **Required:** False
- **Format:** int64

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

- **message**
  - **Type:** string
  - **Required:** False

**SearchResourcesBucketCriteria**

Specifies property- and tag-based conditions that define filter criteria for including or excluding S3 buckets from the query results. Exclude conditions take precedence over include conditions.

- **excludes**
  - **Type:** SearchResourcesCriteriaBlock (p. 225)
  - **Required:** False

- **includes**
  - **Type:** SearchResourcesCriteriaBlock (p. 225)
  - **Required:** False

**SearchResourcesComparator**

The operator to use in a condition that filters the results of a query. Valid values are:

- **EQ**
- **NE**

**SearchResourcesCriteria**

Specifies a property- or tag-based filter condition for including or excluding AWS resources from the query results.
simpleCriterion

A property-based condition that defines a property, operator, and one or more values for including or excluding resources from the results.

Type: SearchResourcesSimpleCriterion (p. 226)
Required: False

tagCriterion

A tag-based condition that defines an operator and tag keys, tag values, or tag key and value pairs for including or excluding resources from the results.

Type: SearchResourcesTagCriterion (p. 228)
Required: False

SearchResourcesCriteriaBlock

Specifies property- and tag-based conditions that define filter criteria for including or excluding AWS resources from the query results.

and

An array of objects, one for each property- or tag-based condition that includes or excludes resources from the query results. If you specify more than one condition, Amazon Macie uses AND logic to join the conditions.

Type: Array of type SearchResourcesCriteria (p. 224)
Required: False

SearchResourcesRequest

Specifies criteria for filtering, sorting, and paginating the results of a query for statistical data and other information about AWS resources that Amazon Macie monitors and analyzes.

bucketCriteria

The filter conditions that determine which S3 buckets to include or exclude from the query results.

Type: SearchResourcesBucketCriteria (p. 224)
Required: False

maxResults

The maximum number of items to include in each page of the response. The default value is 50.

Type: integer
Required: False
Format: int32

nextToken

The nextToken string that specifies which page of results to return in a paginated response.
Type: string  
Required: False

sortCriteria

The criteria to use to sort the results.

Type: SearchResourcesSortCriteria (p. 227)  
Required: False

SearchResourcesResponse

Provides the results of a query that retrieved statistical data and other information about AWS resources that Amazon Macie monitors and analyzes for your account.

matchingResources

An array of objects, one for each resource that matches the filter criteria specified in the request.

Type: Array of type MatchingResource (p. 222)  
Required: False

nextToken

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string  
Required: False

SearchResourcesSimpleCriterion

Specifies a property-based filter condition that determines which AWS resources are included or excluded from the query results.

comparator

The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

Type: SearchResourcesComparator (p. 224)  
Required: False

key

The property to use in the condition.

Type: SearchResourcesSimpleCriterionKey (p. 227)  
Required: False

values

An array that lists one or more values to use in the condition. If you specify multiple values, Amazon Macie uses OR logic to join the values. Valid values for each supported property (key) are:
- **ACCOUNT_ID** - A string that represents the unique identifier for the AWS account that owns the resource.
- **S3_BUCKET_EFFECTIVE_PERMISION** - A string that represents an enumerated value that Macie defines for the `BucketPublicAccess.effectivePermission` property of an S3 bucket.
- **S3_BUCKET_NAME** - A string that represents the name of an S3 bucket.
- **S3_BUCKET_SHARED_ACCESS** - A string that represents an enumerated value that Macie defines for the `BucketMetadata.sharedAccess` property of an S3 bucket.

Values are case sensitive. Also, Macie doesn't support use of partial values or wildcard characters in values.

**SearchResourcesSimpleCriterionKey**

The property to use in a condition that filters the query results. Valid values are:

- ACCOUNT_ID
- S3_BUCKET_NAME
- S3_BUCKET_EFFECTIVE_PERMISSION
- S3_BUCKET_SHARED_ACCESS

**SearchResourcesSortAttributeName**

The property to sort the query results by. Valid values are:

- ACCOUNT_ID
- RESOURCE_NAME
- S3_CLASSIFIABLE_OBJECT_COUNT
- S3_CLASSIFIABLE_SIZE_IN_BYTES

**SearchResourcesSortCriteria**

Specifies criteria for sorting the results of a query for information about AWS resources that Amazon Macie monitors and analyzes.

**attributeName**

The property to sort the results by.

- **Type**: `SearchResourcesSortAttributeName (p. 227)`
- **Required**: False

**orderBy**

The sort order to apply to the results, based on the value for the property specified by the `attributeName` property. Valid values are: ASC, sort the results in ascending order; and, DESC, sort the results in descending order.

- **Type**: string
- **Required**: False
- **Values**: ASC | DESC
**SearchResourcesTagCriterion**

Specifies a tag-based filter condition that determines which AWS resources are included or excluded from the query results.

**comparator**

The operator to use in the condition. Valid values are EQ (equals) and NE (not equals).

- **Type**: `SearchResourcesComparator (p. 224)`
- **Required**: False

**tagValues**

The tag keys, tag values, or tag key and value pairs to use in the condition.

- **Type**: Array of type `SearchResourcesTagCriterionPair (p. 228)`
- **Required**: False

**SearchResourcesTagCriterionPair**

Specifies a tag key, a tag value, or a tag key and value (as a pair) to use in a tag-based filter condition for a query. Tag keys and values are case sensitive. Also, Amazon Macie doesn't support use of partial values or wildcard characters in tag-based filter conditions.

**key**

The value for the tag key to use in the condition.

- **Type**: string
- **Required**: False

**value**

The tag value to use in the condition.

- **Type**: string
- **Required**: False

**ServiceQuotaExceedededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.
message
The explanation of the error that occurred.

Type: string
Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

Type: string
Required: False

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

SearchResources
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Finding List
The Finding List resource provides a subset of information about the findings for your Amazon Macie account. A finding is a detailed report of a potential policy violation for an Amazon Simple Storage Service (Amazon S3) bucket or sensitive data in an S3 object. Note that this resource doesn't provide access to all the data for a finding. Instead, it provides only a subset of metadata, primarily the unique identifier for a finding. To retrieve all the data for one or more findings, use the Findings resource.

You can use the Finding List resource to retrieve a subset of information about one or more findings for your account. To customize and refine your query, you can use the supported parameters to specify how to filter, sort, and paginate the results.

URI
/findings
HTTP methods

POST

Operation ID: ListFindings

Retrieves a subset of information about one or more findings.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListFindingsResponse (p. 231)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 231)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 231)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 231)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 231)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 231)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 231)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 232)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

POST schema

```json
{
  "findingCriteria": {
    "criterion": {
      ...
    },
    "maxResults": integer,
    "nextToken": "string",
    "sortCriteria": {
      ...
    }
}
```
"attributeName": "string",
"orderBy": enum
}

Response bodies

ListFindingsResponse schema

{
  "findingIds": [ 
    "string"
  ],
  "nextToken": "string"
}

ValidationException schema

{
  "message": "string"
}

ServiceQuotaExceededException schema

{
  "message": "string"
}

AccessDeniedException schema

{
  "message": "string"
}

ResourceNotFoundException schema

{
  "message": "string"
}

ConflictException schema

{
  "message": "string"
}

ThrottlingException schema

{
  "message": "string"
}
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string  
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string  
Required: False

Criterion

Specifies a condition that defines a property, operator, and one or more values to filter the results of a query for findings. The number of values depends on the property and operator specified by the condition. For information about defining filter conditions, see Fundamentals of filtering findings in the Amazon Macie User Guide.

key-value pairs

Type: object

CriterionAdditionalProperties

Specifies the operator to use in a property-based condition that filters the results of a query for findings. For detailed information and examples of each operator, see Fundamentals of filtering findings in the Amazon Macie User Guide.

eq

The value for the property matches (equals) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

Type: Array of type string
**Required:** False

**eqExactMatch**

The value for the property exclusively matches (equals an exact match for) all the specified values. If you specify multiple values, Amazon Macie uses AND logic to join the values.

You can use this operator with the following properties: `customDataIdentifiers.detections.arn`, `customDataIdentifiers.detections.name`, `resourcesAffected.s3Bucket.tags.key`, `resourcesAffected.s3Bucket.tags.value`, `resourcesAffected.s3Object.tags.key`, `resourcesAffected.s3Object.tags.value`, `sensitiveData.category`, and `sensitiveData.detections.type`.

**Type:** Array of type string

**Required:** False

**gt**

The value for the property is greater than the specified value.

**Type:** integer

**Required:** False

**Format:** int64

**gte**

The value for the property is greater than or equal to the specified value.

**Type:** integer

**Required:** False

**Format:** int64

**lt**

The value for the property is less than the specified value.

**Type:** integer

**Required:** False

**Format:** int64

**lte**

The value for the property is less than or equal to the specified value.

**Type:** integer

**Required:** False

**Format:** int64

**neq**

The value for the property doesn't match (doesn't equal) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

**Type:** Array of type string

**Required:** False
FindingCriteria

Specifies, as a map, one or more property-based conditions that filter the results of a query for findings.

criterion

A condition that specifies the property, operator, and one or more values to use to filter the results.

Type: Criterion (p. 232)
Required: False

InternalServerErrorException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ListFindingsRequest

Specifies criteria for filtering, sorting, and paginating the results of a request for information about findings.

findingCriteria

The criteria to use to filter the results.

Type: FindingCriteria (p. 234)
Required: False

maxResults

The maximum number of items to include in each page of the response.

Type: integer
Required: False
Format: int32

nextToken

The nextToken string that specifies which page of results to return in a paginated response.

Type: string
Required: False

sortCriteria

The criteria to use to sort the results.

Type: SortCriteria (p. 235)
Required: False

**ListFindingsResponse**
Provides the results of a request for information about one or more findings.

**findingIds**
An array of strings, where each string is the unique identifier for a finding that matches the filter criteria specified in the request.

- **Type**: Array of type string
- **Required**: False

**nextToken**
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

- **Type**: string
- **Required**: False

**ResourceNotFoundException**
Provides information about an error that occurred because a specified resource wasn't found.

**message**
The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**ServiceQuotaExceededException**
Provides information about an error that occurred due to one or more service quotas for an account.

**message**
The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**SortCriteria**
Specifies criteria for sorting the results of a request for findings.

**attributeName**
The name of the property to sort the results by. Valid values are: count, createdAt, policyDetails.action.apiCallDetails.firstSeen, policyDetails.action.apiCallDetails.lastSeen, resourcesAffected, severity.score, type, and updatedAt.
Type: string
Required: False

orderBy

The sort order to apply to the results, based on the value for the property specified by the attributeName property. Valid values are: ASC, sort the results in ascending order; and, DESC, sort the results in descending order.

Type: string
Required: False
Values: ASC  |  DESC

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

ListFindings

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
Finding Samples

The Finding Samples resource provides a set of findings that use example data and placeholder values to help you understand and analyze the types of findings that Amazon Macie can generate. A finding is a detailed report of a potential policy violation for an Amazon Simple Storage Service (Amazon S3) bucket or sensitive data in an S3 object. For information about the types of findings that Macie can generate, see Types of Amazon Macie findings in the Amazon Macie User Guide.

If you use this resource to create sample findings, Macie generates one sample finding for each supported finding type that you choose to include in the set of samples. You can then review and work with the samples by using the Amazon Macie API or the Amazon Macie console. Depending on the findings filters and publication settings for your Macie account, you can also work with the samples by using Amazon EventBridge and AWS Security Hub. To help you identify a sample finding, Macie sets the value for the sample property of each finding to true. For more information about creating and managing sample findings, see Working with sample findings in the Amazon Macie User Guide.

You can use the Finding Samples resource to create one or more sample findings. To create only certain types of sample findings, use the supported request parameter to specify each type of sample finding that you want to create.

**URI**

/ findings/sample

**HTTP methods**

**POST**

Operation ID: CreateSampleFindings

Creates sample findings.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>EmptySchema (p. 238)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 238)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 238)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
</tbody>
</table>
### Status codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>404</td>
<td><code>ResourceNotFoundException</code></td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td><code>ConflictException (p. 239)</code></td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td><code>ThrottlingException (p. 239)</code></td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td><code>InternalServerException (p. 239)</code></td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**POST schema**

```json
{
    "findingTypes": [
        enum
    ]
}
```

#### Response bodies

**Empty Schema schema**

```json
{
}
```

**ValidationException schema**

```json
{
    "message": "string"
}
```

**ServiceQuotaExceedededException schema**

```json
{
    "message": "string"
}
```

**AccessDeniedException schema**

```json
{}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False
CreateSampleFindingsRequest

Specifies the types of sample findings to create.

findingTypes

An array of finding types, one for each type of sample finding to create. To create a sample of every type of finding that Amazon Macie supports, don't include this array in your request.

Type: Array of type FindingType (p. 240)
Required: False

Empty

The request succeeded and there isn't any content to include in the body of the response (No Content).

FindingType

The type of finding. For details about each type, see Types of Amazon Macie findings in the Amazon Macie User Guide. Possible values are:

SensitiveData:S3Object/Multiple
SensitiveData:S3Object/Financial
SensitiveData:S3Object/Personal
SensitiveData:S3Object/Credentials
SensitiveData:S3Object/CustomIdentifier
Policy:IAMUser/S3BucketPublic
Policy:IAMUser/S3BucketSharedExternally
Policy:IAMUser/S3BucketReplicatedExternally
Policy:IAMUser/S3BucketEncryptionDisabled
Policy:IAMUser/S3BlockPublicAccessDisabled
Policy:IAMUser/S3BucketSharedWithCloudFront

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

    Type: string
    Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

    Type: string
    Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

    Type: string
    Required: False

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

CreateSampleFindings

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
Finding Statistics

The Finding Statistics resource provides aggregated statistical data about the findings for your Amazon Macie account. This primarily includes data about the total number of findings, grouped by a key value such as severity, finding type, or affected resource. The data is available for all the findings that Macie stores for your account.

You can use the Finding Statistics resource to retrieve (query) aggregated statistical data about findings for your account. To customize and refine your query, you can use the supported parameters to specify how to filter, group, and sort the query results.

URI

/findings/statistics

HTTP methods

POST

Operation ID: GetFindingStatistics

Retrieves (queries) aggregated statistical data about findings.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>ValidationException (p. 243)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 244)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 244)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 244)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 244)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 244)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
</tbody>
</table>
Schemas

Request bodies

POST schema

```json
{
    "findingCriteria": {
        "criterion": {
            
        
    },
    "groupBy": enum,
    "size": integer,
    "sortCriteria": {
        "attributeName": enum,
        "orderBy": enum
    }
}
```

Response bodies

GetFindingStatisticsResponse schema

```json
{
    "countsByGroup": [ 
    {
        "count": integer,
        "groupKey": "string"
    }
] 
}
```

ValidationException schema

```json
{
    "message": "string"
}
```

ServiceQuotaExceedededException schema

```json
{
    "message": "string"
}
```

AccessDeniedException schema

```json
{
    
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False
Criterion

Specifies a condition that defines a property, operator, and one or more values to filter the results of a query for findings. The number of values depends on the property and operator specified by the condition. For information about defining filter conditions, see Fundamentals of filtering findings in the Amazon Macie User Guide.

key-value pairs

Type: object

CriterionAdditionalProperties

Specifies the operator to use in a property-based condition that filters the results of a query for findings. For detailed information and examples of each operator, see Fundamentals of filtering findings in the Amazon Macie User Guide.

eq

The value for the property matches (equals) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

Type: Array of type string
Required: False

eqExactMatch

The value for the property exclusively matches (equals an exact match for) all the specified values. If you specify multiple values, Amazon Macie uses AND logic to join the values.

You can use this operator with the following properties: customDataIdentifiers.detections.arn, customDataIdentifiers.detections.name, resourcesAffected.s3Bucket.tags.key, resourcesAffected.s3Bucket.tags.value, resourcesAffected.s3Object.tags.key, resourcesAffected.s3Object.tags.value, sensitiveData.category, and sensitiveData.detections.type.

Type: Array of type string
Required: False

gt

The value for the property is greater than the specified value.

Type: integer
Required: False
Format: int64

gte

The value for the property is greater than or equal to the specified value.

Type: integer
Required: False
Format: int64
lt

The value for the property is less than the specified value.

Type: integer
Required: False
Format: int64

lte

The value for the property is less than or equal to the specified value.

Type: integer
Required: False
Format: int64

neq

The value for the property doesn't match (doesn't equal) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

Type: Array of type string
Required: False

FindingCriteria

Specifies, as a map, one or more property-based conditions that filter the results of a query for findings.

criterion

A condition that specifies the property, operator, and one or more values to use to filter the results.

Type: Criterion (p. 245)
Required: False

FindingStatisticsSortAttributeName

The grouping to sort the results by. Valid values are:

- groupKey
- count

FindingStatisticsSortCriteria

Specifies criteria for sorting the results of a query that retrieves aggregated statistical data about findings.

attributeName

The grouping to sort the results by. Valid values are: count, sort the results by the number of findings in each group of results; and, groupKey, sort the results by the name of each group of results.

Type: FindingStatisticsSortAttributeName (p. 246)
orderBy

The sort order to apply to the results, based on the value for the property specified by the
attributeName property. Valid values are: ASC, sort the results in ascending order; and, DESC, sort the
results in descending order.

Type: string
Required: False
Values: ASC | DESC

GetFindingStatisticsRequest

Specifies criteria for filtering, grouping, sorting, and paginating the results of a query that retrieves
aggregated statistical data about findings.

findingCriteria

The criteria to use to filter the query results.

Type: FindingCriteria (p. 246)
Required: False

groupBy

The finding property to use to group the query results. Valid values are:

- classificationDetails.jobId - The unique identifier for the classification job that produced the
  finding.
- resourcesAffected.s3Bucket.name - The name of the S3 bucket that the finding applies to.
- severity.description - The severity level of the finding, such as High or Medium.
- type - The type of finding, such as Policy:IAMUser/S3BucketPublic and
  SensitiveData:S3Object/Personal.

Type: string
Required: True
Values: resourcesAffected.s3Bucket.name | type | classificationDetails.jobId | severity.description

size

The maximum number of items to include in each page of the response.

Type: integer
Required: False
Format: int32

sortCriteria

The criteria to use to sort the query results.

Type: FindingStatisticsSortCriteria (p. 246)
GetFindingStatisticsResponse

Provides the results of a query that retrieved aggregated statistical data about findings.

countsByGroup

An array of objects, one for each group of findings that matches the filter criteria specified in the request.

Type: Array of type GroupCount (p. 248)
Required: False

GroupCount

Provides a group of results for a query that retrieved aggregated statistical data about findings.

count

The total number of findings in the group of query results.

Type: integer
Required: False
Format: int64

groupKey

The name of the property that defines the group in the query results, as specified by the groupBy property in the query request.

Type: string
Required: False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.
Type: string  
Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

Type: string  
Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

Type: string  
Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

Type: string  
Required: False

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetFindingStatistics
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
Findings

The Findings resource represents the repository of findings for your Amazon Macie account. A finding is a detailed report of a potential issue with the security or privacy of an Amazon Simple Storage Service (Amazon S3) bucket or sensitive data in an S3 object. Each finding provides details such as a severity rating, information about the affected resource, and when and how Macie found the issue. The severity and details of each finding vary depending on the type and nature of the finding. For information about the types of findings that Macie can generate, see Types of Amazon Macie findings in the Amazon Macie User Guide.

You can use the Findings resource to retrieve the details of one or more findings for your account. To refine your results, you can use the supported parameters to specify how to sort the results. When you use this resource, you have to specify the unique identifier for each finding to retrieve. To find this identifier, you can use the Finding List (p. 229) resource.

**URI**

/findings/describe

**HTTP methods**

**POST**

**Operation ID:** GetFindings

Retrieves the details of one or more findings.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetFindingsResponse (p. 251)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 256)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 256)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 256)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 256)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
</tbody>
</table>
### Schemas

#### Request bodies

**POST schema**

```json
{
  "findingIds": [
    "string"
  ],
  "sortCriteria": {
    "attributeName": "string",
    "orderBy": enum
  }
}
```

#### Response bodies

**GetFindingsResponse schema**

```json
[
  {  
    "accountId": "string",
    "archived": boolean,
    "category": enum,
    "classificationDetails": {
      "detailedResultsLocation": "string",
      "jobArn": "string",
      "jobId": "string",
      "originType": enum,
      "result": {
        "additionalOccurrences": boolean,
        "customDataIdentifiers": {
          "detections": [
            {  
              "arn": "string",
              "count": integer,
              "name": "string",
              "occurrences": {
                "cells": [
                  {  
                    "cellReference": "string",
                    "column": integer,
                    "columnName": "string",
                    "row": integer
                  }
                ]
              }
            }
```
"lineRanges": [
  {
    "end": integer,
    "start": integer,
    "startColumn": integer
  }
],
"offsetRanges": [
  {
    "end": integer,
    "start": integer,
    "startColumn": integer
  }
],
"pages": [
  {
    "lineRange": {
      "end": integer,
      "start": integer,
      "startColumn": integer
    },
    "offsetRange": {
      "end": integer,
      "start": integer,
      "startColumn": integer
    },
    "pageNumber": integer
  }
],
"records": [
  {
    "jsonPath": "string",
    "recordIndex": integer
  }
]
],
"totalCount": integer
],
"mimeType": "string",
"sensitiveData": [
{
  "category": enum,
  "detections": [
    {
      "count": integer,
      "occurrences": {
        "cells": {
          "cellReference": "string",
          "column": integer,
          "columnName": "string",
          "row": integer
        }
      },
      "lineRanges": [
        {
          "end": integer,
          "start": integer,
          "startColumn": integer
        }
      ],
      "offsetRanges": [
        {
          "end": integer
        }
      ]
    }
  ]
}
"start": integer,
"StartColumn": integer
],
"pages": [
{
"lineRange": {
"end": integer,
"start": integer,
"StartColumn": integer
},
"offsetRange": {
"end": integer,
"start": integer,
"StartColumn": integer
},
"pageNumber": integer
},
"records": [
{
"jsonPath": "string",
"recordIndex": integer
}
],
"type": "string"
}],
"totalCount": integer,
"sizeClassified": integer,
"status": {
"code": "string",
"reason": "string"
}
],
"count": integer,
"createdAt": "string",
"description": "string",
"id": "string",
"partition": "string",
"policyDetails": {
"action": {
"actionType": enum,
"apiCallDetails": {
"api": "string",
"apiServiceName": "string",
"FirstSeen": "string",
"LastSeen": "string"
}
},
"actor": {
"domainDetails": {
"domainName": "string"
}
},
"ipAddressDetails": {
"ipAddressV4": "string",
"ipCity": {
"name": "string"
}
},
"ipCountry": {
"code": "string",
"name": "string"
}
"ipGeoLocation": {
  "lat": number,
  "lon": number
},
"ipOwner": {
  "asn": "string",
  "asnOrg": "string",
  "isp": "string",
  "org": "string"
}
"userIdentity": {
  "assumedRole": {
    "accessKeyId": "string",
    "accountId": "string",
    "arn": "string",
    "principalId": "string",
    "sessionContext": {
      "attributes": {
        "creationDate": "string",
        "mfaAuthenticated": boolean
      },
      "sessionIssuer": {
        "accountId": "string",
        "arn": "string",
        "principalId": "string",
        "type": "string",
        "userName": "string"
      }
    }
  },
  "awsAccount": {
    "accountId": "string",
    "principalId": "string"
  },
  "awsService": {
    "invokedBy": "string"
  },
  "federatedUser": {
    "accessKeyId": "string",
    "accountId": "string",
    "arn": "string",
    "principalId": "string",
    "sessionContext": {
      "attributes": {
        "creationDate": "string",
        "mfaAuthenticated": boolean
      },
      "sessionIssuer": {
        "accountId": "string",
        "arn": "string",
        "principalId": "string",
        "type": "string",
        "userName": "string"
      }
    }
  },
  "iamUser": {
    "accountId": "string",
    "arn": "string",
    "principalId": "string",
    "userName": "string"
  },
  "root": {
    "accountId": "string",
    "attributes": {
      "creationDate": "string",
      "mfaAuthenticated": boolean
    },
    "sessionIssuer": {
      "accountId": "string",
      "arn": "string",
      "principalId": "string",
      "type": "string",
      "userName": "string"
    }
  }
}
"arn": "string",
"principalId": "string"
}

"type": enum
}

"region": "string",
"resourcesAffected": {
  "s3Bucket": {
    "allowsUnencryptedObjectUploads": enum,
    "arn": "string",
    "createdAt": "string",
    "defaultServerSideEncryption": {
      "encryptionType": enum,
      "kmsMasterKeyId": "string"
    },
    "name": "string",
    "owner": {
      "displayName": "string",
      "id": "string"
    },
    "publicAccess": {
      "effectivePermission": enum,
      "permissionConfiguration": {
        "accountLevelPermissions": {
          "blockPublicAccess": {
            "blockPublicAcls": boolean,
            "blockPublicPolicy": boolean,
            "ignorePublicAcls": boolean,
            "restrictPublicBuckets": boolean
          }
        },
        "bucketLevelPermissions": {
          "accessControllist": {
            "allowsPublicReadAccess": boolean,
            "allowsPublicWriteAccess": boolean
          },
          "blockPublicAccess": {
            "blockPublicAcls": boolean,
            "blockPublicPolicy": boolean,
            "ignorePublicAcls": boolean,
            "restrictPublicBuckets": boolean
          },
          "bucketPolicy": {
            "allowsPublicReadAccess": boolean,
            "allowsPublicWriteAccess": boolean
          }
        }
      }
    },
    "tags": [
      {
        "key": "string",
        "value": "string"
      }
    ],
  }"s3Object": {
  "bucketArn": "string",
  "eTag": "string",
  "extension": "string",
  "key": "string",
  "lastModified": "string",
  "path": "string",
  "publicAccess": boolean,
}
"serverSideEncryption": {
   "encryptionType": enum,
   "kmsMasterKeyId": "string"
 },
 "size": integer,
 "storageClass": enum,
 "tags": [
   {
      "key": "string",
      "value": "string"
   }
  ],
 "versionId": "string"
},
 "sample": boolean,
 "schemaVersion": "string",
 "severity": {
   "description": enum,
   "score": integer
 },
 "title": "string",
 "type": enum,
 "updatedAt": "string"
]}

ValidationException schema

{
   "message": "string"
}

ServiceQuotaExceededException schema

{
   "message": "string"
}

AccessDeniedException schema

{
   "message": "string"
}

ResourceNotFoundException schema

{
   "message": "string"
}

ConflictException schema

{

"message": "string"
}

ThrottlingException schema

{
  "message": "string"
}

InternalServerException schema

{
  "message": "string"
}

Properties

AccessControlList

Provides information about the permissions settings of the bucket-level access control list (ACL) for an S3 bucket.

allowsPublicReadAccess

Specifies whether the ACL grants the general public with read access permissions for the bucket.

  Type: boolean
  Required: False

allowsPublicWriteAccess

Specifies whether the ACL grants the general public with write access permissions for the bucket.

  Type: boolean
  Required: False

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

AccountLevelPermissions

Provides information about the account-level permissions settings that apply to an S3 bucket.
**blockPublicAccess**

The block public access settings for the AWS account that owns the bucket.


*Required:* False

**ApiCallDetails**

Provides information about an API operation that an entity invoked for an affected resource.

**api**

The name of the operation that was invoked most recently and produced the finding.

*Type:* string

*Required:* False

**apiServiceName**

The URL of the AWS service that provides the operation, for example: `s3.amazonaws.com`.

*Type:* string

*Required:* False

**firstSeen**

The first date and time, in UTC and extended ISO 8601 format, when any operation was invoked and produced the finding.

*Type:* string

*Required:* False

*Format:* date-time

**lastSeen**

The most recent date and time, in UTC and extended ISO 8601 format, when the specified operation (api) was invoked and produced the finding.

*Type:* string

*Required:* False

*Format:* date-time

**AssumedRole**

Provides information about an identity that performed an action on an affected resource by using temporary security credentials. The credentials were obtained using the AssumeRole operation of the AWS Security Token Service (AWS STS) API.

**accessKeyId**

The AWS access key ID that identifies the credentials.

*Type:* string
**Required**: False

**accountId**
The unique identifier for the AWS account that owns the entity that was used to get the credentials.

**Type**: string
**Required**: False

**arn**
The Amazon Resource Name (ARN) of the entity that was used to get the credentials.

**Type**: string
**Required**: False

**principalId**
The unique identifier for the entity that was used to get the credentials.

**Type**: string
**Required**: False

**sessionContext**
The details of the session that was created for the credentials, including the entity that issued the session.

**Type**: `SessionContext (p. 286)`
**Required**: False

---

**AwsAccount**
Provides information about an AWS account and entity that performed an action on an affected resource. The action was performed using the credentials for an AWS account other than your own account.

**accountId**
The unique identifier for the AWS account.

**Type**: string
**Required**: False

**principalId**
The unique identifier for the entity that performed the action.

**Type**: string
**Required**: False

---

**AwsService**
Provides information about an AWS service that performed an action on an affected resource.
invokedBy

The name of the AWS service that performed the action.

Type: string
Required: False

BlockPublicAccess

Provides information about the block public access settings for an S3 bucket. These settings can apply to a bucket at the account or bucket level. For detailed information about each setting, see Blocking public access to your Amazon S3 storage in the Amazon Simple Storage Service User Guide.

blockPublicAcls

Specifies whether Amazon S3 blocks public access control lists (ACLs) for the bucket and objects in the bucket.

Type: boolean
Required: False

blockPublicPolicy

Specifies whether Amazon S3 blocks public bucket policies for the bucket.

Type: boolean
Required: False

ignorePublicAcls

Specifies whether Amazon S3 ignores public ACLs for the bucket and objects in the bucket.

Type: boolean
Required: False

restrictPublicBuckets

Specifies whether Amazon S3 restricts public bucket policies for the bucket.

Type: boolean
Required: False

BucketLevelPermissions

Provides information about the bucket-level permissions settings for an S3 bucket.

accessControlList

The permissions settings of the access control list (ACL) for the bucket. This value is null if an ACL hasn't been defined for the bucket.

Type: AccessControlList (p. 257)
Required: False
**blockPublicAccess**

The block public access settings for the bucket.

- Type: *BlockPublicAccess (p. 260)*
- Required: False

**bucketPolicy**

The permissions settings of the bucket policy for the bucket. This value is null if a bucket policy hasn't been defined for the bucket.

- Type: *BucketPolicy (p. 261)*
- Required: False

**BucketPermissionConfiguration**

Provides information about the account-level and bucket-level permissions settings for an S3 bucket.

**accountLevelPermissions**

The account-level permissions settings that apply to the bucket.

- Type: *AccountLevelPermissions (p. 257)*
- Required: False

**bucketLevelPermissions**

The bucket-level permissions settings for the bucket.

- Type: *BucketLevelPermissions (p. 260)*
- Required: False

**BucketPolicy**

Provides information about the permissions settings of the bucket policy for an S3 bucket.

**allowsPublicReadAccess**

Specifies whether the bucket policy allows the general public to have read access to the bucket.

- Type: boolean
- Required: False

**allowsPublicWriteAccess**

Specifies whether the bucket policy allows the general public to have write access to the bucket.

- Type: boolean
- Required: False

**BucketPublicAccess**

Provides information about the permissions settings that determine whether an S3 bucket is publicly accessible.
**effectivePermission**

Specifies whether the bucket is publicly accessible due to the combination of permissions settings that apply to the bucket. Possible values are:

- **NOT_PUBLIC** - The bucket isn't publicly accessible.
- **PUBLIC** - The bucket is publicly accessible.
- **UNKNOWN** - Amazon Macie can't determine whether the bucket is publicly accessible.

**Type:** string  
**Required:** False  
**Values:** PUBLIC | NOT_PUBLIC | UNKNOWN

**permissionConfiguration**

The account-level and bucket-level permissions settings for the bucket.

**Type:** [BucketPermissionConfiguration](p. 261)  
**Required:** False

**Cell**

Specifies the location of an occurrence of sensitive data in a Microsoft Excel workbook, CSV file, or TSV file.

**cellReference**

The location of the cell, as an absolute cell reference, that contains the sensitive data, for example Sheet2!C5 for cell C5 on Sheet2 in a Microsoft Excel workbook. This value is null for CSV and TSV files.

**Type:** string  
**Required:** False

**column**

The column number of the column that contains the sensitive data. For a Microsoft Excel workbook, this value correlates to the alphabetical character(s) for a column identifier, for example: 1 for column A, 2 for column B, and so on.

**Type:** integer  
**Required:** False  
**Format:** int64

**columnName**

The name of the column that contains the sensitive data, if available.

**Type:** string  
**Required:** False

**row**

The row number of the row that contains the sensitive data.
Type: integer  
Required: False  
Format: int64

**ClassificationDetails**

Provides information about a sensitive data finding and the details of the finding.

**detailedResultsLocation**

The path to the folder or file in Amazon S3 that contains the corresponding sensitive data discovery result for the finding. If a finding applies to a large archive or compressed file, this value is the path to a folder. Otherwise, this value is the path to a file.

Type: string  
Required: False

**jobArn**

The Amazon Resource Name (ARN) of the classification job that produced the finding. This value is null if the origin of the finding (originType) is AUTOMATED_SENSITIVE_DATA_DISCOVERY.

Type: string  
Required: False

**jobId**

The unique identifier for the classification job that produced the finding. This value is null if the origin of the finding (originType) is AUTOMATED_SENSITIVE_DATA_DISCOVERY.

Type: string  
Required: False

**originType**

Specifies how Amazon Macie found the sensitive data that produced the finding. Possible values are: SENSITIVE_DATA_DISCOVERY_JOB, for a classification job; and, AUTOMATED_SENSITIVE_DATA_DISCOVERY, for automated sensitive data discovery.

Type: `OriginType` (p. 278)  
Required: False

**result**

The status and other details of the finding.

Type: `ClassificationResult` (p. 263)  
Required: False

**ClassificationResult**

Provides the details of a sensitive data finding, including the types, number of occurrences, and locations of the sensitive data that was detected.
**additionalOccurrences**

Specifies whether Amazon Macie detected additional occurrences of sensitive data in the S3 object. A finding includes location data for a maximum of 15 occurrences of sensitive data.

This value can help you determine whether to investigate additional occurrences of sensitive data in an object. You can do this by referring to the corresponding sensitive data discovery result for the finding (classificationDetails.detailedResultsLocation).

*Type:* boolean  
*Required:* False

**customDataIdentifiers**

The custom data identifiers that detected the sensitive data and the number of occurrences of the data that they detected.

*Type:* CustomDataIdentifiers (p. 266)  
*Required:* False

**mimeType**

The type of content, as a MIME type, that the finding applies to. For example, application/gzip, for a GNU Gzip compressed archive file, or application/pdf, for an Adobe Portable Document Format file.

*Type:* string  
*Required:* False

**sensitiveData**

The category, types, and number of occurrences of the sensitive data that produced the finding.

*Type:* Array of type SensitiveDataItem (p. 284)  
*Required:* False

**sizeClassified**

The total size, in bytes, of the data that the finding applies to.

*Type:* integer  
*Required:* False  
*Format:* int64

**status**

The status of the finding.

*Type:* ClassificationResultStatus (p. 264)  
*Required:* False

**ClassificationResultStatus**

Provides information about the status of a sensitive data finding.
**code**

The status of the finding. Possible values are:

- **COMPLETE** - Amazon Macie successfully completed its analysis of the S3 object that the finding applies to.
- **PARTIAL** - Macie analyzed only a subset of the data in the S3 object that the finding applies to. For example, the object is an archive file that contains files in an unsupported format.
- **SKIPPED** - Macie wasn't able to analyze the S3 object that the finding applies to. For example, the object is a file that uses an unsupported format.

**Type:** string  
**Required:** False

**reason**

A brief description of the status of the finding. This value is null if the status (code) of the finding is **COMPLETE**.

Amazon Macie uses this value to notify you of any errors, warnings, or considerations that might impact your analysis of the finding and the affected S3 object. Possible values are:

- **ARCHIVE_CONTAINS_UNPROCESSED_FILES** - The object is an archive file and Macie extracted and analyzed only some or none of the files in the archive. To determine which files Macie analyzed, if any, refer to the corresponding sensitive data discovery result for the finding (`classificationDetails.detailedResultsLocation`).
- **ARCHIVE_EXCEEDS_SIZE_LIMIT** - The object is an archive file whose total storage size exceeds the size quota for this type of archive.
- **ARCHIVE_NESTING_LEVEL_OVER_LIMIT** - The object is an archive file whose nested depth exceeds the quota for the maximum number of nested levels that Macie analyzes for this type of archive.
- **ARCHIVE_TOTAL.Bytes_EXTRACTED_OVER_LIMIT** - The object is an archive file that exceeds the quota for the maximum amount of data that Macie extracts and analyzes for this type of archive.
- **ARCHIVE_TOTAL/Documents_PROCESSED_OVER_LIMIT** - The object is an archive file that contains more than the maximum number of files that Macie extracts and analyzes for this type of archive.
- **FILE.EXCEEDS_SIZE_LIMIT** - The storage size of the object exceeds the size quota for this type of file.
- **INVALID_ENCRYPTION** - The object is encrypted using server-side encryption but Macie isn't allowed to use the key. Macie can't decrypt and analyze the object.
- **INVALID_KMS_KEY** - The object is encrypted with an AWS KMS key that was disabled or is being deleted. Macie can't decrypt and analyze the object.
- **INVALID_OBJECT_STATE** - The object doesn't use a supported Amazon S3 storage class.
- **JSON_NESTING_LEVEL_OVER_LIMIT** - The object contains JSON data and the nested depth of the data exceeds the quota for the number of nested levels that Macie analyzes for this type of file.
- **MALFORMED_FILE** - The object is a malformed or corrupted file. An error occurred when Macie attempted to detect the file's type or extract data from the file.
- **MALFORMED.OR_FILE.SIZE_EXCEEDS_LIMIT** - The object is a Microsoft Office file that is malformed or exceeds the size quota for this type of file. If the file is malformed, an error occurred when Macie attempted to extract data from the file.
- **NO_SUCH_BUCKET_AVAILABLE** - The object was in a bucket that was deleted shortly before or when Macie attempted to analyze the object.
- **OBJECT_VERSION_MISMATCH** - The object was changed while Macie was analyzing it.
• OOOXML_UNCOMPRESSED_RATIO_EXCEEDS_LIMIT - The object is an Office Open XML file whose compression ratio exceeds the compression quota for this type of file.
• OOOXML_UNCOMPRESSED_SIZE_EXCEEDS_LIMIT - The object is an Office Open XML file that exceeds the size quota for this type of file.
• PERMISSION_DENIED - Macie isn’t allowed to access the object. The object’s permissions settings prevent Macie from analyzing the object.
• SOURCE_OBJECT_NO_LONGER_AVAILABLE - The object was deleted shortly before or when Macie attempted to analyze it.
• TIME_CUT_OFF_REACHED - Macie started analyzing the object but additional analysis would exceed the time quota for analyzing an object.
• UNABLE_TO_PARSE_FILE - The object is a file that contains structured data and an error occurred when Macie attempted to parse the data.
• UNSUPPORTED_FILE_TYPE_EXCEPTION - The object is a file that uses an unsupported file or storage format.

For information about quotas, supported storage classes, and supported file and storage formats, see Quotas and Supported storage classes and formats in the Amazon Macie User Guide.

**Type**: string  
**Required**: False

### ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

### CustomDataIdentifiers

Provides information about custom data identifiers that produced a sensitive data finding, and the number of occurrences of the data that they detected for the finding.

**detections**

The custom data identifiers that detected the data, and the number of occurrences of the data that each identifier detected.

**Type**: Array of type [CustomDetection](p. 267)  
**Required**: False

**totalCount**

The total number of occurrences of the data that was detected by the custom data identifiers and produced the finding.

**Type**: integer  
**Required**: False
**CustomDetection**

Provides information about a custom data identifier that produced a sensitive data finding, and the sensitive data that it detected for the finding.

**arn**

The unique identifier for the custom data identifier.

- **Type**: string
- **Required**: False

**count**

The total number of occurrences of the sensitive data that the custom data identifier detected.

- **Type**: integer
- **Required**: False
- **Format**: int64

**name**

The name of the custom data identifier.

- **Type**: string
- **Required**: False

**occurrences**

The location of 1-15 occurrences of the sensitive data that the custom data identifier detected. A finding includes location data for a maximum of 15 occurrences of sensitive data.

- **Type**: Occurrences (p. 277)
- **Required**: False

**DefaultDetection**

Provides information about a type of sensitive data that was detected by a managed data identifier and produced a sensitive data finding.

**count**

The total number of occurrences of the type of sensitive data that was detected.

- **Type**: integer
- **Required**: False
- **Format**: int64

**occurrences**

The location of 1-15 occurrences of the sensitive data that was detected. A finding includes location data for a maximum of 15 occurrences of sensitive data.
**Type**: Occurrences (p. 277)  
**Required**: False

**type**

The type of sensitive data that was detected. For example, AWS_CREDENTIALS, PHONE_NUMBER, or ADDRESS.

**Type**: string  
**Required**: False

**DomainDetails**

Provides information about the domain name of the device that an entity used to perform an action on an affected resource.

**domainName**

The name of the domain.

**Type**: string  
**Required**: False

**EncryptionType**

The server-side encryption algorithm that was used to encrypt an S3 object or is used by default to encrypt objects that are added to an S3 bucket. Possible values are:

- NONE
- AES256
- aws:kms
- UNKNOWN

**FederatedUser**

Provides information about an identity that performed an action on an affected resource by using temporary security credentials. The credentials were obtained using the GetFederationToken operation of the AWS Security Token Service (AWS STS) API.

**accessKeyId**

The AWS access key ID that identifies the credentials.

**Type**: string  
**Required**: False

**accountId**

The unique identifier for the AWS account that owns the entity that was used to get the credentials.

**Type**: string  
**Required**: False
**Properties**

**arn**
The Amazon Resource Name (ARN) of the entity that was used to get the credentials.

  * Type: string
  * Required: False

**principalId**
The unique identifier for the entity that was used to get the credentials.

  * Type: string
  * Required: False

**sessionContext**
The details of the session that was created for the credentials, including the entity that issued the session.

  * Type: [SessionContext](p. 286)
  * Required: False

**Finding**
Provides the details of a finding.

**accountId**
The unique identifier for the AWS account that the finding applies to. This is typically the account that owns the affected resource.

  * Type: string
  * Required: False

**archived**
Specifies whether the finding is archived (suppressed).

  * Type: boolean
  * Required: False

**category**
The category of the finding. Possible values are: CLASSIFICATION, for a sensitive data finding; and, POLICY, for a policy finding.

  * Type: [FindingCategory](p. 273)
  * Required: False

**classificationDetails**
The details of a sensitive data finding. This value is null for a policy finding.

  * Type: [ClassificationDetails](p. 263)
Required: False

count
The total number of occurrences of the finding. For sensitive data findings, this value is always 1. All sensitive data findings are considered unique.

Type: integer
Required: False
Format: int64

createdAt
The date and time, in UTC and extended ISO 8601 format, when Amazon Macie created the finding.

Type: string
Required: False
Format: date-time

description
The description of the finding.

Type: string
Required: False

id
The unique identifier for the finding. This is a random string that Amazon Macie generates and assigns to a finding when it creates the finding.

Type: string
Required: False

partition
The AWS partition that Amazon Macie created the finding in.

Type: string
Required: False

policyDetails
The details of a policy finding. This value is null for a sensitive data finding.

Type: PolicyDetails (p. 279)
Required: False

region
The AWS Region that Amazon Macie created the finding in.

Type: string
Properties

**resourcesAffected**

The resources that the finding applies to.

Type: `ResourcesAffected (p. 280)`  
Required: False

**sample**

Specifies whether the finding is a sample finding. A sample finding is a finding that uses example data to demonstrate what a finding might contain.

Type: boolean  
Required: False

**schemaVersion**

The version of the schema that was used to define the data structures in the finding.

Type: string  
Required: False

**severity**

The severity level and score for the finding.

Type: `Severity (p. 287)`  
Required: False

**title**

The brief description of the finding.

Type: string  
Required: False

**type**

The type of the finding.

Type: `FindingType (p. 273)`  
Required: False

**updatedAt**

The date and time, in UTC and extended ISO 8601 format, when Amazon Macie last updated the finding. For sensitive data findings, this value is the same as the value for the `createdAt` property. All sensitive data findings are considered new.

Type: string  
Required: False
**FindingAction**

Provides information about an action that occurred for a resource and produced a policy finding.

**actionType**

The type of action that occurred for the affected resource. This value is typically `AWS_API_CALL`, which indicates that an entity invoked an API operation for the resource.

*Type: FindingActionType (p. 272)*

*Required: False*

**apiCallDetails**

The invocation details of the API operation that an entity invoked for the affected resource, if the value for the `actionType` property is `AWS_API_CALL`.

*Type: ApiCallDetails (p. 258)*

*Required: False*

**FindingActionType**

The type of action that occurred for the resource and produced the policy finding:

- `AWS_API_CALL`

**FindingActor**

Provides information about an entity that performed an action that produced a policy finding for a resource.

**domainDetails**

The domain name of the device that the entity used to perform the action on the affected resource.

*Type: DomainDetails (p. 268)*

*Required: False*

**ipAddressDetails**

The IP address of the device that the entity used to perform the action on the affected resource. This object also provides information such as the owner and geographic location for the IP address.

*Type: IpAddressDetails (p. 274)*

*Required: False*

**userIdentity**

The type and other characteristics of the entity that performed the action on the affected resource.

*Type: UserIdentity (p. 288)*
Properties

Required: False

FindingCategory

The category of the finding. Possible values are:

CLASSIFICATION
POLICY

FindingType

The type of finding. For details about each type, see Types of Amazon Macie findings in the Amazon Macie User Guide. Possible values are:

SensitiveData:S3Object/Multiple
SensitiveData:S3Object/Financial
SensitiveData:S3Object/Personal
SensitiveData:S3Object/Credentials
SensitiveData:S3Object/CustomIdentifier
Policy:IAMUser/S3BucketPublic
Policy:IAMUser/S3BucketSharedExternally
Policy:IAMUser/S3BucketReplicatedExternally
Policy:IAMUser/S3BucketEncryptionDisabled
Policy:IAMUser/S3BlockPublicAccessDisabled
Policy:IAMUser/S3BucketSharedWithCloudFront

GetFindingsRequest

Specifies one or more findings to retrieve.

findingIds

An array of strings that lists the unique identifiers for the findings to retrieve. You can specify as many as 50 unique identifiers in this array.

Type: Array of type string
Required: True

sortCriteria

The criteria for sorting the results of the request.

Type: SortCriteria (p. 288)
Required: False

GetFindingsResponse

Provides the results of a request for one or more findings.

findings

An array of objects, one for each finding that matches the criteria specified in the request.
Properties

**Type**: Array of type Finding (p. 269)
**Required**: False

**IamUser**

Provides information about an AWS Identity and Access Management (IAM) user who performed an action on an affected resource.

**accountld**

The unique identifier for the AWS account that's associated with the IAM user who performed the action.

**Type**: string
**Required**: False

**arn**

The Amazon Resource Name (ARN) of the principal that performed the action. The last section of the ARN contains the name of the user who performed the action.

**Type**: string
**Required**: False

**principalld**

The unique identifier for the IAM user who performed the action.

**Type**: string
**Required**: False

**userName**

The username of the IAM user who performed the action.

**Type**: string
**Required**: False

**InternalServerErrorException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

**Type**: string
**Required**: False

**IpAddressDetails**

Provides information about the IP address of the device that an entity used to perform an action on an affected resource.

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**ipAddressV4**

The Internet Protocol version 4 (IPv4) address of the device.

- **Type:** string
- **Required:** False

**ipCity**

The city that the IP address originated from.

- **Type:** [IpCity](p. 275)
- **Required:** False

**ipCountry**

The country that the IP address originated from.

- **Type:** [IpCountry](p. 275)
- **Required:** False

**ipGeoLocation**

The geographic coordinates of the location that the IP address originated from.

- **Type:** [IpGeoLocation](p. 276)
- **Required:** False

**ipOwner**

The registered owner of the IP address.

- **Type:** [IpOwner](p. 276)
- **Required:** False

### IpCity

Provides information about the city that an IP address originated from.

**name**

The name of the city.

- **Type:** string
- **Required:** False

### IpCountry

Provides information about the country that an IP address originated from.

**code**

The two-character code, in ISO 3166-1 alpha-2 format, for the country that the IP address originated from. For example, US for the United States.
Properties

Type: string
Required: False

name
The name of the country that the IP address originated from.

Type: string
Required: False

IpGeoLocation
Provides geographic coordinates that indicate where a specified IP address originated from.

lat
The latitude coordinate of the location, rounded to four decimal places.

Type: number
Required: False

lon
The longitude coordinate of the location, rounded to four decimal places.

Type: number
Required: False

IpOwner
Provides information about the registered owner of an IP address.

asn
The autonomous system number (ASN) for the autonomous system that included the IP address.

Type: string
Required: False

asnOrg
The organization identifier that's associated with the autonomous system number (ASN) for the autonomous system that included the IP address.

Type: string
Required: False

isp
The name of the internet service provider (ISP) that owned the IP address.

Type: string
Required: False
org

The name of the organization that owned the IP address.

   Type: string
   Required: False

KeyValuePair

Provides information about the tags that are associated with an S3 bucket or object. Each tag consists of
a required tag key and an associated tag value.

key

One part of a key-value pair that comprises a tag. A tag key is a general label that acts as a category for
more specific tag values.

   Type: string
   Required: False

value

One part of a key-value pair that comprises a tag. A tag value acts as a descriptor for a tag key. A tag
value can be an empty string.

   Type: string
   Required: False

Occurrences

Specifies the location of 1-15 occurrences of sensitive data that was detected by a managed data
identifier or a custom data identifier and produced a sensitive data finding.

cells

An array of objects, one for each occurrence of sensitive data in a Microsoft Excel workbook, CSV file, or
TSV file. This value is null for all other types of files.

Each Cell object specifies a cell or field that contains the sensitive data.

   Type: Array of type Cell (p. 262)
   Required: False

lineRanges

An array of objects, one for each occurrence of sensitive data in an email message or a non-binary text
file such as an HTML, TXT, or XML file. Each Range object specifies a line or inclusive range of lines that
contains the sensitive data, and the position of the data on the specified line or lines.

This value is often null for file types that are supported by Cell, Page, or Record objects. Exceptions
are the location of sensitive data in: unstructured sections of an otherwise structured file, such as a
comment in a file; a malformed file that Amazon Macie analyzes as plain text; and, a CSV or TSV file that
has any column names that contain sensitive data.

   Type: Array of type Range (p. 279)
Properties

**Required**: False

**offsetRanges**

Reserved for future use.

- **Type**: Array of type [Range](p. 279)
- **Required**: False

**pages**

An array of objects, one for each occurrence of sensitive data in an Adobe Portable Document Format file. This value is null for all other types of files.

Each Page object specifies a page that contains the sensitive data.

- **Type**: Array of type [Page](p. 278)
- **Required**: False

**records**

An array of objects, one for each occurrence of sensitive data in an Apache Avro object container, Apache Parquet file, JSON file, or JSON Lines file. This value is null for all other types of files.

For an Avro object container or Parquet file, each Record object specifies a record index and the path to a field in a record that contains the sensitive data. For a JSON or JSON Lines file, each Record object specifies the path to a field or array that contains the sensitive data. For a JSON Lines file, it also specifies the index of the line that contains the data.

- **Type**: Array of type [Record](p. 280)
- **Required**: False

**OriginType**

Specifies how Amazon Macie found the sensitive data that produced a finding. Possible values are:

- `SENSITIVE_DATA_DISCOVERY_JOB`
- `AUTOMATED_SENSITIVE_DATA_DISCOVERY`

**Page**

Specifies the location of an occurrence of sensitive data in an Adobe Portable Document Format file.

**lineRange**

Reserved for future use.

- **Type**: [Range](p. 279)
- **Required**: False

**offsetRange**

Reserved for future use.

---

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Properties

**Type**: Range (p. 279)  
**Required**: False

**pageNumber**

The page number of the page that contains the sensitive data.

**Type**: integer  
**Required**: False  
**Format**: int64

**PolicyDetails**

Provides the details of a policy finding.

**action**

The action that produced the finding.

**Type**: FindingAction (p. 272)  
**Required**: False

**actor**

The entity that performed the action that produced the finding.

**Type**: FindingActor (p. 272)  
**Required**: False

**Range**

Specifies the location of an occurrence of sensitive data in an email message or a non-binary text file such as an HTML, TXT, or XML file.

**end**

The number of lines from the beginning of the file to the end of the sensitive data.

**Type**: integer  
**Required**: False  
**Format**: int64

**start**

The number of lines from the beginning of the file to the beginning of the sensitive data.

**Type**: integer  
**Required**: False  
**Format**: int64

**startColumn**

The number of characters, with spaces and starting from 1, from the beginning of the first line that contains the sensitive data (start) to the beginning of the sensitive data.
Properties

**Type**: integer  
**Required**: False  
**Format**: int64

**Record**

Specifies the location of an occurrence of sensitive data in an Apache Avro object container, Apache Parquet file, JSON file, or JSON Lines file.

**jsonPath**

The path, as a JSONPath expression, to the sensitive data. For an Avro object container or Parquet file, this is the path to the field in the record (recordIndex) that contains the data. For a JSON or JSON Lines file, this is the path to the field or array that contains the data. If the data is a value in an array, the path also indicates which value contains the data.

If Amazon Macie detects sensitive data in the name of any element in the path, Macie omits this field. If the name of an element exceeds 240 characters, Macie truncates the name by removing characters from the beginning of the name. If the resulting full path exceeds 250 characters, Macie also truncates the path, starting with the first element in the path, until the path contains 250 or fewer characters.

**recordIndex**

For an Avro object container or Parquet file, the record index, starting from 0, for the record that contains the sensitive data. For a JSON Lines file, the line index, starting from 0, for the line that contains the sensitive data. This value is always 0 for JSON files.

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

**ResourcesAffected**

Provides information about the resources that a finding applies to.

**s3Bucket**

The details of the S3 bucket that the finding applies to.
s3Object

The details of the S3 object that the finding applies to.

Type: S3Object (p. 282)
Required: False

S3Bucket

Provides information about the S3 bucket that a finding applies to.

allowsUnencryptedObjectUploads

Specifies whether the bucket policy for the bucket requires server-side encryption of objects when objects are added to the bucket. Possible values are:

- FALSE - The bucket policy requires server-side encryption of new objects. PutObject requests must include a valid server-side encryption header.
- TRUE - The bucket doesn't have a bucket policy or it has a bucket policy that doesn't require server-side encryption of new objects. If a bucket policy exists, it doesn't require PutObject requests to include a valid server-side encryption header.
- UNKNOWN - Amazon Macie can't determine whether the bucket policy requires server-side encryption of new objects.

Valid server-side encryption headers are: x-amz-server-side-encryption with a value of AES256 or aws:kms, and x-amz-server-side-encryption-customer-algorithm with a value of AES256.

Type: string
Required: False
Values: TRUE | FALSE | UNKNOWN

arn

The Amazon Resource Name (ARN) of the bucket.

Type: string
Required: False

createdAt

The date and time, in UTC and extended ISO 8601 format, when the bucket was created. This value can also indicate when changes such as edits to the bucket's policy were most recently made to the bucket, relative to when the finding was created or last updated.

Type: string
Required: False
Format: date-time

defaultServerSideEncryption

The default server-side encryption settings for the bucket.

Type: ServerSideEncryption (p. 285)
Required: False
**name**

The name of the bucket.

- **Type**: string
- **Required**: False

**owner**

The display name and canonical user ID for the AWS account that owns the bucket.

- **Type**: `S3BucketOwner` *(p. 282)*
- **Required**: False

**publicAccess**

The permissions settings that determine whether the bucket is publicly accessible.

- **Type**: `BucketPublicAccess` *(p. 261)*
- **Required**: False

**tags**

The tags that are associated with the bucket.

- **Type**: Array of type `KeyValuePair` *(p. 277)*
- **Required**: False

**S3BucketOwner**

Provides information about the AWS account that owns an S3 bucket.

**displayName**

The display name of the account that owns the bucket.

- **Type**: string
- **Required**: False

**id**

The canonical user ID for the account that owns the bucket.

- **Type**: string
- **Required**: False

**S3Object**

Provides information about the S3 object that a finding applies to.

**bucketArn**

The Amazon Resource Name (ARN) of the bucket that contains the object.
Properties

**Type**: string  
**Required**: False

**eTag**

The entity tag (ETag) that identifies the affected version of the object. If the object was overwritten or changed after Amazon Macie produced the finding, this value might be different from the current ETag for the object.

**Type**: string  
**Required**: False

**extension**

The file name extension of the object. If the object doesn't have a file name extension, this value is "".

**Type**: string  
**Required**: False

**key**

The full name (key) of the object, including the object's prefix if applicable.

**Type**: string  
**Required**: False

**lastModified**

The date and time, in UTC and extended ISO 8601 format, when the object was last modified.

**Type**: string  
**Required**: False  
**Format**: date-time

**path**

The full path to the affected object, including the name of the affected bucket and the object's name (key).

**Type**: string  
**Required**: False

**publicAccess**

Specifies whether the object is publicly accessible due to the combination of permissions settings that apply to the object.

**Type**: boolean  
**Required**: False

**serverSideEncryption**

The type of server-side encryption that was used to encrypt the object.
Properties

Type: ServerSideEncryption (p. 285)
Required: False

size
The total storage size, in bytes, of the object.

Type: integer
Required: False
Format: int64

storageClass
The storage class of the object.

Type: StorageClass (p. 288)
Required: False

tags
The tags that are associated with the object.

Type: Array of type KeyValuePair (p. 277)
Required: False

versionId
The identifier for the affected version of the object.

Type: string
Required: False

SensitiveDataItem
Provides information about the category, types, and occurrences of sensitive data that produced a sensitive data finding.

category
The category of sensitive data that was detected. For example: CREDENTIALS, for credentials data such as private keys or AWS secret access keys; FINANCIAL_INFORMATION, for financial data such as credit card numbers; or, PERSONAL_INFORMATION, for personal health information, such as health insurance identification numbers, or personally identifiable information, such as passport numbers.

Type: SensitiveDataItemCategory (p. 285)
Required: False

detections
An array of objects, one for each type of sensitive data that was detected. Each object reports the number of occurrences of a specific type of sensitive data that was detected, and the location of up to 15 of those occurrences.

Type: Array of type DefaultDetection (p. 267)
**Required:** False

**totalCount**

The total number of occurrences of the sensitive data that was detected.

- **Type:** integer
- **Required:** False
- **Format:** int64

**SensitiveDataItemCategory**

For a finding, the category of sensitive data that was detected and produced the finding. For a managed data identifier, the category of sensitive data that the managed data identifier detects. Possible values are:

- FINANCIAL_INFORMATION
- PERSONAL_INFORMATION
- CREDENTIALS
- CUSTOM_IDENTIFIER

**ServerSideEncryption**

Provides information about the default server-side encryption settings for an S3 bucket or the encryption settings for an S3 object.

**encryptionType**

The server-side encryption algorithm that's used when storing data in the bucket or object. If default encryption settings aren't configured for the bucket or the object isn't encrypted using server-side encryption, this value is NONE.

- **Type:** EncryptionType (p. 268)
- **Required:** False

**kmsMasterKeyId**

The Amazon Resource Name (ARN) or unique identifier (key ID) for the AWS KMS key that's used to encrypt data in the bucket or the object. This value is null if an AWS KMS key isn't used to encrypt the data.

- **Type:** string
- **Required:** False

**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

- **Type:** string
- **Required:** False
SessionContext
Provides information about a session that was created for an entity that performed an action by using temporary security credentials.

attributes
The date and time when the credentials were issued, and whether the credentials were authenticated with a multi-factor authentication (MFA) device.

Type: SessionContextAttributes (p. 286)
Required: False

sessionIssuer
The source and type of credentials that were issued to the entity.

Type: SessionIssuer (p. 286)
Required: False

SessionContextAttributes
Provides information about the context in which temporary security credentials were issued to an entity.

creationDate
The date and time, in UTC and ISO 8601 format, when the credentials were issued.

Type: string
Required: False
Format: date-time

mfaAuthenticated
Specifies whether the credentials were authenticated with a multi-factor authentication (MFA) device.

Type: boolean
Required: False

SessionIssuer
Provides information about the source and type of temporary security credentials that were issued to an entity.

accountId
The unique identifier for the AWS account that owns the entity that was used to get the credentials.

Type: string
Required: False

arn
The Amazon Resource Name (ARN) of the source account, AWS Identity and Access Management (IAM) user, or role that was used to get the credentials.
principalId
The unique identifier for the entity that was used to get the credentials.

Type: string
Required: False

type
The source of the temporary security credentials, such as Root, IAMUser, or Role.

Type: string
Required: False

userName
The name or alias of the user or role that issued the session. This value is null if the credentials were obtained from a root account that doesn't have an alias.

Type: string
Required: False

Severity
Provides the numerical and qualitative representations of a finding's severity.

description
The qualitative representation of the finding's severity, ranging from Low (least severe) to High (most severe).

Type: SeverityDescription (p. 287)
Required: False

score
The numerical representation of the finding's severity, ranging from 1 (least severe) to 3 (most severe).

Type: integer
Required: False
Format: int64

SeverityDescription
The qualitative representation of the finding's severity. Possible values are:

- Low
- Medium
- High
SortCriteria

Specifies criteria for sorting the results of a request for findings.

attributeName

The name of the property to sort the results by. Valid values are: count, createdAt, policyDetails.action.apiCallDetails.firstSeen, policyDetails.action.apiCallDetails.lastSeen, resourcesAffected, severity.score, type, and updatedAt.

  Type: string
  Required: False

orderBy

The sort order to apply to the results, based on the value for the property specified by the attributeName property. Valid values are: ASC, sort the results in ascending order; and, DESC, sort the results in descending order.

  Type: string
  Required: False
  Values: ASC | DESC

StorageClass

The storage class of the S3 object. Possible values are:

  STANDARD
  REDUCED_REDUNDANCY
  STANDARD_IA
  INTELLIGENT_TIERING
  DEEP_ARCHIVE
  ONEZONE_IA
  GLACIER
  GLACIER_IR
  OUTPOSTS

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

  Type: string
  Required: False

UserIdentity

Provides information about the type and other characteristics of an entity that performed an action on an affected resource.
assumedRole

If the action was performed with temporary security credentials that were obtained using the
AssumeRole operation of the AWS Security Token Service (AWS STS) API, the identifiers, session
context, and other details about the identity.

    Type: AssumedRole (p. 258)
    Required: False

awsAccount

If the action was performed using the credentials for another AWS account, the details of that account.

    Type: AwsAccount (p. 259)
    Required: False

awsService

If the action was performed by an AWS account that belongs to an AWS service, the name of the service.

    Type: AwsService (p. 259)
    Required: False

federatedUser

If the action was performed with temporary security credentials that were obtained using the
GetFederationToken operation of the AWS Security Token Service (AWS STS) API, the identifiers,
session context, and other details about the identity.

    Type: FederatedUser (p. 268)
    Required: False

iamUser

If the action was performed using the credentials for an AWS Identity and Access Management (IAM)
user, the name and other details about the user.

    Type: IamUser (p. 274)
    Required: False

root

If the action was performed using the credentials for your AWS account, the details of your account.

    Type: UserIdentityRoot (p. 290)
    Required: False

type

The type of entity that performed the action.

    Type: UserIdentityType (p. 290)
    Required: False
UserIdentityRoot

Provides information about an AWS account and entity that performed an action on an affected resource. The action was performed using the credentials for your AWS account.

accountId

The unique identifier for the AWS account.

Type: string
Required: False

arn

The Amazon Resource Name (ARN) of the principal that performed the action. The last section of the ARN contains the name of the user or role that performed the action.

Type: string
Required: False

principalId

The unique identifier for the entity that performed the action.

Type: string
Required: False

UserIdentityType

The type of entity that performed the action on the affected resource. Possible values are:

- AssumedRole
- IAMUser
- FederatedUser
- Root
- AWSAccount
- AWSService

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:
GetFindings

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Findings - Publication Configuration

The Publication Configuration resource for findings provides settings for publishing findings to AWS Security Hub. With these settings, you can configure Amazon Macie to automatically publish all policy findings, all sensitive data findings, or both policy and sensitive data findings to Security Hub. This doesn't include findings that were suppressed (automatically archived) by a findings filter. You can also use these settings to stop publishing any findings to Security Hub. To learn more about how Macie publishes findings to Security Hub, see Amazon Macie integration with Security Hub in the Amazon Macie User Guide.

Security Hub is a service that provides you with a comprehensive view of your security state across your AWS environment. It also helps you check your environment against security industry standards and best practices. It does this partly by consuming, aggregating, organizing, and prioritizing findings from multiple AWS services and supported AWS Partner Network (APN) security solutions. It helps you analyze your security trends and identify the highest priority security issues. To learn more about Security Hub, see the AWS Security Hub User Guide.

You can use the Publication Configuration resource for findings to retrieve information about or update your configuration settings for publishing findings to Security Hub automatically. If you configure Macie to publish policy findings to Security Hub, Macie publishes updates to those findings on a recurring basis. To specify the publication frequency for these updates, use the Account Administration (p. 10) resource.

URI
/findings-publication-configuration

HTTP methods

GET

Operation ID: GetFindingsPublicationConfiguration

Retrieves the configuration settings for publishing findings to AWS Security Hub.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetFindingsPublicationConfiguration</td>
<td>The request succeeded (p. 293)</td>
</tr>
</tbody>
</table>
PUT

Operation ID: PutFindingsPublicationConfiguration

Updates the configuration settings for publishing findings to AWS Security Hub.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>None</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 293)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 294)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
</tbody>
</table>

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### Status codes

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 294)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 294)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 294)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 294)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**PUT schema**

```json
{
  "clientToken": "string",
  "securityHubConfiguration": {
    "publishClassificationFindings": boolean,
    "publishPolicyFindings": boolean
  }
}
```

#### Response bodies

**GetFindingsPublicationConfigurationResponse schema**

```json
{
  "securityHubConfiguration": {
    "publishClassificationFindings": boolean,
    "publishPolicyFindings": boolean
  }
}
```

**ValidationException schema**

```json
{
  "message": "string"
}
```

**ServiceQuotaExceedededException schema**

```json
{
  "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

  Type: string
Required: False

**GetFindingsPublicationConfigurationResponse**

Provides information about the current configuration settings for publishing findings to AWS Security Hub automatically.

**securityHubConfiguration**

The configuration settings that determine which findings are published to AWS Security Hub.

*Type: SecurityHubConfiguration (p. 296)*

Required: False

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

*Type: string*

Required: False

**PutFindingsPublicationConfigurationRequest**

Specifies configuration settings for publishing findings to AWS Security Hub automatically.

**clientToken**

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

*Type: string*

Required: False

**securityHubConfiguration**

The configuration settings that determine which findings to publish to AWS Security Hub.

*Type: SecurityHubConfiguration (p. 296)*

Required: False

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

*Type: string*

Required: False
SecurityHubConfiguration

Specifies configuration settings that determine which findings are published to AWS Security Hub automatically. For information about how Macie publishes findings to Security Hub, see Amazon Macie integration with Security Hub in the Amazon Macie User Guide.

publishClassificationFindings

Specifies whether to publish sensitive data findings to AWS Security Hub. If you set this value to true, Amazon Macie automatically publishes all sensitive data findings that weren't suppressed by a findings filter. The default value is false.

  Type: boolean
  Required: True

publishPolicyFindings

Specifies whether to publish policy findings to AWS Security Hub. If you set this value to true, Amazon Macie automatically publishes all new and updated policy findings that weren't suppressed by a findings filter. The default value is true.

  Type: boolean
  Required: True

ServiceQuotaExceeded(Exception

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.
Findings - Reveal Sensitive Data Occurrences

The Reveal Sensitive Data Occurrences resource provides options for retrieving sample occurrences of sensitive data that Amazon Macie reported in a finding. The samples can help you verify the nature of the sensitive data that Macie found. You can also use them to tailor your investigation of the affected Amazon Simple Storage Service (Amazon S3) object or bucket. You can retrieve sensitive data samples in all the AWS Regions where Macie is currently available except the Asia Pacific (Osaka) and Israel (Tel Aviv) Regions.

When you retrieve sensitive data samples, you specify the unique identifier for a particular sensitive data finding. Macie then uses location data in the corresponding sensitive data discovery result for the finding to locate and extract sample occurrences of sensitive data from the affected S3 object. Macie encrypts the extracted data with an AWS Key Management Service (AWS KMS) key that you specify, temporarily stores the encrypted data in a cache, and returns the data in your results. Soon after extraction and encryption, Macie permanently deletes the data from the cache unless additional retention is temporarily required to resolve an operational issue.
To retrieve sensitive data samples for a finding, the finding must meet all the following criteria:

- Include one or more occurrences objects that indicate the location of specific occurrences of sensitive data in the affected S3 object.
- Specify the location of a valid sensitive data discovery result in the classificationDetails.detailedResultsLocation field.
- Have one of the following values in the mimeType field: application/avro, application/gzip, application/json, application/parquet, application/vnd.openxmlformats-officedocument.spreadsheetml.sheet, application/zip, text/csv, text/plain, or text/tab-separated-values.

For additional requirements, see Retrieving sensitive data samples with findings in the Amazon Macie User Guide.

By using the Reveal Sensitive Data Occurrences resource, you can retrieve sample occurrences of sensitive data that Macie reported in a particular finding. When you use this resource, you have to specify the unique identifier for the finding that your request applies to. To find this identifier, you can use the Finding List resource.

Before you can use this resource, you have to configure and enable Macie to retrieve sensitive data samples for findings. To do this, use the Reveal Sensitive Data Occurrences Configuration resource.

**URI**

`/findings/findingId/reveal`

**HTTP methods**

**GET**

**Operation ID:** GetSensitiveDataOccurrences

Retrieves occurrences of sensitive data reported by a finding.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>findingId</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the finding.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetSensitiveDataOccurrencesResponse</td>
<td>The request succeeded</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 296)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
</tbody>
</table>
Schemas

Response bodies

GetSensitiveDataOccurrencesResponse schema

```
{
  "error": "string",
  "sensitiveDataOccurrences": {
  },
  "status": enum
}
```

ServiceQuotaExceededException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
  "message": "string"
}
```

ResourceNotFoundException schema

```
{
  "message": "string"
}
```

UnprocessableEntityException schema

```
{
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

DetectedDataDetails

Specifies 1-10 occurrences of a specific type of sensitive data reported by a finding.

value

An occurrence of the specified type of sensitive data. Each occurrence contains 1-128 characters.

  Type: string
  Required: True
  Format: password
  MinLength: 1
  MaxLength: 128

GetSensitiveDataOccurrencesResponse

Provides the results of a request to retrieve occurrences of sensitive data reported by a finding.

error

If an error occurred when Amazon Macie attempted to retrieve occurrences of sensitive data reported by the finding, a description of the error that occurred. This value is null if the status (status) of the request is PROCESSING or SUCCESS.

  Type: string
  Required: False
**sensitiveDataOccurrences**

A map that specifies 1-100 types of sensitive data reported by the finding and, for each type, 1-10 occurrences of sensitive data.

**Type:** `SensitiveDataOccurrences (p. 302)`
**Required:** False

**status**

The status of the request to retrieve occurrences of sensitive data reported by the finding. Possible values are:

- **ERROR** - An error occurred when Amazon Macie attempted to locate, retrieve, or encrypt the sensitive data. The `error` value indicates the nature of the error that occurred.
- **PROCESSING** - Macie is processing the request.
- **SUCCESS** - Macie successfully located, retrieved, and encrypted the sensitive data.

**Type:** `RevealRequestStatus (p. 301)`
**Required:** False

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

**Type:** string
**Required:** False

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

**Type:** string
**Required:** False

**RevealRequestStatus**

The status of a request to retrieve occurrences of sensitive data reported by a finding. Possible values are:

SUCCESS
PROCESSING
ERROR
SensitiveDataOccurrences

Specifies a type of sensitive data reported by a finding and provides occurrences of the specified type of sensitive data.

key-value pairs

An array of DetectedDataDetails objects. Each object specifies 1-10 occurrences of a specified type of sensitive data.

Type: array

ServiceQuotaExceededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string

Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string

Required: False

UnprocessableEntityException

Provides information about an error that occurred due to an unprocessable entity.

message

The type of error that occurred and prevented Amazon Macie from retrieving occurrences of sensitive data reported by the finding. Possible values are:

- ACCOUNT_NOT_IN_ORGANIZATION - The affected account isn't currently part of your organization. Or the account is part of your organization but Macie isn't currently enabled for the account. You're not allowed to access the affected S3 object by using Macie.
- INVALID_CLASSIFICATION_RESULT - There isn't a corresponding sensitive data discovery result for the finding. Or the corresponding sensitive data discovery result isn't available in the current AWS Region, is malformed or corrupted, or uses an unsupported storage format. Macie can't verify the location of the sensitive data to retrieve.
- INVALID_RESULT_SIGNATURE - The corresponding sensitive data discovery result is stored in an S3 object that wasn't signed by Macie. Macie can't verify the integrity and authenticity of the sensitive data discovery result. Therefore, Macie can't verify the location of the sensitive data to retrieve.
• MEMBER_ROLE_TOO_PERMISSIVE - The trust or permissions policy for the IAM role in the affected member account doesn't meet Macie requirements for restricting access to the role. Or the role's trust policy doesn't specify the correct external ID for your organization. Macie can’t assume the role to retrieve the sensitive data.

• MISSING_GET_MEMBER_PERMISSION - You're not allowed to retrieve information about the association between your account and the affected account. Macie can't determine whether you’re allowed to access the affected S3 object as the delegated Macie administrator for the affected account.

• OBJECT_EXCEEDS_SIZE_QUOTA - The storage size of the affected S3 object exceeds the size quota for retrieving occurrences of sensitive data from this type of file.

• OBJECT_UNAVAILABLE - The affected S3 object isn't available. The object was renamed, moved, or deleted. Or the object was changed after Macie created the finding.

• RESULT_NOT_SIGNED - The corresponding sensitive data discovery result is stored in an S3 object that hasn't been signed. Macie can't verify the integrity and authenticity of the sensitive data discovery result. Therefore, Macie can't verify the location of the sensitive data to retrieve.

• ROLE_TOO_PERMISSIVE - Your account is configured to retrieve occurrences of sensitive data by using an IAM role whose trust or permissions policy doesn't meet Macie requirements for restricting access to the role. Macie can’t assume the role to retrieve the sensitive data.

• UNSUPPORTED_FINDING_TYPE - The specified finding isn’t a sensitive data finding.

• UNSUPPORTED_OBJECT_TYPE - The affected S3 object uses a file or storage format that Macie doesn’t support for retrieving occurrences of sensitive data.

Type: string
Required: True

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetSensitiveDataOccurrences

• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript V3
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3

Findings - Reveal Sensitive Data Occurrences Availability

The Reveal Sensitive Data Occurrences Availability resource provides an environment for determining whether you can retrieve sample occurrences of sensitive data that Amazon Macie reported in a finding. You can use this resource in all the AWS Regions where Macie is currently available except the Asia Pacific (Osaka) and Israel (Tel Aviv) Regions.
To retrieve sensitive data samples for a finding, the finding must meet all the following criteria:

- Include one or more occurrences objects that indicate the location of specific occurrences of sensitive data in the affected Amazon Simple Storage Service (Amazon S3) object.
- Specify the location of a valid sensitive data discovery result in the classificationDetails.detailedResultsLocation field.
- Have one of the following values for the mimeType field: application/avro, application/gzip, application/json, application/parquet, application/vnd.openxmlformats-officedocument.spreadsheetml.sheet, application/zip, text/csv, text/plain, or text/tab-separated-values.

For additional requirements, see Retrieving sensitive data samples with findings in the Amazon Macie User Guide.

By using the Reveal Sensitive Data Occurrences Availability resource, you can determine whether you can retrieve sample occurrences of sensitive data for a particular finding. To use this resource, you have to specify the unique identifier for the finding that your request applies to. To find this identifier, you can use the Finding List (p. 229) resource. If samples are available for a finding, use the Reveal Sensitive Data Occurrences (p. 297) resource to retrieve the samples.

Before you can use this resource, you have to configure and enable Macie to retrieve sensitive data samples for findings. To do this, use the Reveal Sensitive Data Occurrences Configuration (p. 308) resource.

**URI**

/findings/findingId/reveal/availability

**HTTP methods**

**GET**

**Operation ID:** GetSensitiveDataOccurrencesAvailability

Checks whether occurrences of sensitive data can be retrieved for a finding.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>findingId</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the finding.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetSensitiveDataOccurrencesAvailabilityResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
</tbody>
</table>
Schemas
Response bodies

GetSensitiveDataOccurrencesAvailabilityResponse schema

```json
{
   "code": enum,
   "reasons": [
      enum
   ]
}
```

AccessDeniedException schema

```json
{
   "message": "string"
}
```

ResourceNotFoundException schema

```json
{
   "message": "string"
}
```

ThrottlingException schema

```json
{
   "message": "string"
}
```

InternalServerException schema

```json
{
   "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.
message
The explanation of the error that occurred.

  Type: string
  Required: False

AvailabilityCode
Specifies whether occurrences of sensitive data can be retrieved for a finding. Possible values are:

  AVAILABLE
  UNAVAILABLE

GetSensitiveDataOccurrencesAvailabilityResponse
Provides information about whether occurrences of sensitive data can be retrieved for a finding and, if not, why the data can't be retrieved.

code
Specifies whether occurrences of sensitive data can be retrieved for the finding. Possible values are:
AVAILABLE, the sensitive data can be retrieved; and, UNAVAILABLE, the sensitive data can't be retrieved. If this value is UNAVAILABLE, the reasons array indicates why the data can't be retrieved.

  Type: AvailabilityCode (p. 306)
  Required: True

reasons
Specifies why occurrences of sensitive data can't be retrieved for the finding. Possible values are:

  • ACCOUNT_NOT_IN_ORGANIZATION - The affected account isn't currently part of your organization. Or the account is part of your organization but Macie isn't currently enabled for the account. You're not allowed to access the affected S3 object by using Macie.
  • INVALID_CLASSIFICATION_RESULT - There isn't a corresponding sensitive data discovery result for the finding. Or the corresponding sensitive data discovery result isn't available in the current AWS Region, is malformed or corrupted, or uses an unsupported storage format. Macie can't verify the location of the sensitive data to retrieve.
  • INVALID_RESULT_SIGNATURE - The corresponding sensitive data discovery result is stored in an S3 object that wasn't signed by Macie. Macie can't verify the integrity and authenticity of the sensitive data discovery result. Therefore, Macie can't verify the location of the sensitive data to retrieve.
  • MEMBER_ROLE_TOO_PERMISSIVE - The trust or permissions policy for the IAM role in the affected member account doesn't meet Macie requirements for restricting access to the role. Or the role's trust policy doesn't specify the correct external ID for your organization. Macie can't assume the role to retrieve the sensitive data.
  • MISSING_GET_MEMBER_PERMISSION - You're not allowed to retrieve information about the association between your account and the affected account. Macie can't determine whether you're allowed to access the affected S3 object as the delegated Macie administrator for the affected account.
  • OBJECT_EXCEEDS_SIZE_QUOTA - The storage size of the affected S3 object exceeds the size quota for retrieving occurrences of sensitive data from this type of file.
  • OBJECT_UNAVAILABLE - The affected S3 object isn't available. The object was renamed, moved, or deleted. Or the object was changed after Macie created the finding.
- **RESULT_NOT_SIGNED** - The corresponding sensitive data discovery result is stored in an S3 object that hasn't been signed. Macie can't verify the integrity and authenticity of the sensitive data discovery result. Therefore, Macie can't verify the location of the sensitive data to retrieve.

- **ROLE_TOO_PERMISSIVE** - Your account is configured to retrieve occurrences of sensitive data by using an IAM role whose trust or permissions policy doesn't meet Macie requirements for restricting access to the role. Macie can't assume the role to retrieve the sensitive data.

- **UNSUPPORTED_FINDING_TYPE** - The specified finding isn't a sensitive data finding.

- **UNSUPPORTED_OBJECT_TYPE** - The affected S3 object uses a file or storage format that Macie doesn't support for retrieving occurrences of sensitive data.

This value is null if sensitive data can be retrieved for the finding.

<table>
<thead>
<tr>
<th>Type</th>
<th>Array of type</th>
<th>UnavailabilityReasonCode (p. 307)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>MinItems</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

- **message**
  
  The explanation of the error that occurred.

<table>
<thead>
<tr>
<th>Type</th>
<th>string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>False</td>
</tr>
</tbody>
</table>

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

- **message**
  
  The explanation of the error that occurred.

<table>
<thead>
<tr>
<th>Type</th>
<th>string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>False</td>
</tr>
</tbody>
</table>

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

- **message**
  
  The explanation of the error that occurred.

<table>
<thead>
<tr>
<th>Type</th>
<th>string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>False</td>
</tr>
</tbody>
</table>

**UnavailabilityReasonCode**

Specifies why occurrences of sensitive data can't be retrieved for a finding. Possible values are:
See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetSensitiveDataOccurrencesAvailability

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Findings - Reveal Sensitive Data Occurrences Configuration

The Reveal Sensitive Data Occurrences Configuration resource provides access to settings for retrieving sample occurrences of sensitive data that Amazon Macie reports in findings. The samples can help you verify the nature of the sensitive data that Macie found. They can also help you tailor your investigation of an affected Amazon Simple Storage Service (Amazon S3) object or bucket. You can retrieve sensitive data samples for findings in all the AWS Regions where Macie is currently available except the Asia Pacific (Osaka) and Israel (Tel Aviv) Regions.

When you retrieve sensitive data samples, you specify the unique identifier for a sensitive data finding. Macie then uses location data in the corresponding sensitive data discovery result for the finding to locate and extract sample occurrences of sensitive data from the affected S3 object. Macie encrypts the extracted data with an AWS Key Management Service (AWS KMS) key that you specify, temporarily stores the encrypted data in a cache, and returns the data in your results. Soon after extraction and encryption, Macie permanently deletes the data from the cache unless additional retention is temporarily required to resolve an operational issue.

By using the Reveal Sensitive Data Occurrences Configuration resource, you can specify configuration settings for retrieving sensitive data samples from affected S3 objects. When you configure the settings
for your Macie account, you specify how to access the objects and which AWS KMS key to use to encrypt the samples.

To access affected S3 objects, you have two options. You can configure Macie to:

- Use AWS Identity and Access Management (IAM) user credentials. With this option, each user of your account uses their individual IAM identity to locate, retrieve, and encrypt sensitive data samples for a finding.
- Assume an IAM role. With this option, you create an IAM role that delegates access to Macie. You also ensure that the trust and permissions policies for the role meet all requirements for Macie to assume the role. Macie then assumes the role when a user of your account chooses to locate, retrieve, and encrypt sensitive data samples for a finding.

To encrypt sensitive data samples, you configure Macie to use an AWS KMS key that you specify. The KMS key must be a customer managed, symmetric encryption key. It must also be a single-Region key that's enabled in the same AWS Region as your Macie account.

For more information about configuration settings and requirements, see [Retrieving sensitive data samples with findings](https://docs.aws.amazon.com/macie/latest/userguide/retrieving-sensitive-data-samples.html) in the Amazon Macie User Guide.

In addition to specifying configuration settings, you can use the Reveal Sensitive Data Occurrences Configuration resource to enable or disable the configuration for your Macie account. If you enable the configuration, you can use the [Reveal Sensitive Data Occurrences](https://docs.aws.amazon.com/macie/latest/userguide/revealing-sensitive-data.html) resource to retrieve sensitive data samples for individual findings.

Before you enable the configuration, verify that you configured Macie to store your sensitive data discovery results in an S3 bucket. Otherwise, you won't be able to retrieve sensitive data samples for findings. To check your configuration, use the [Export Configuration](https://docs.aws.amazon.com/macie/latest/userguide/exporting-classification-results.html) resource for classification results.

**URI**

/reveal-configuration

**HTTP methods**

**GET**

**Operation ID:** GetRevealConfiguration

Retrieves the status and configuration settings for retrieving occurrences of sensitive data reported by findings.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetRevealConfigurationResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 311)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 373)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
</tbody>
</table>
**PUT**

**Operation ID:** UpdateRevealConfiguration

Updates the status and configuration settings for retrieving occurrences of sensitive data reported by findings.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>UpdateRevealConfigurationResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 311)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 311)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 311)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 311)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**Schemas**

**Request bodies**

**PUT schema**

```json
{
    "configuration": {
        "kmsKeyId": "string",
        "status": enum
    },
    "retrievalConfiguration": {
        "retrievalMode": enum,
        "roleName": "string"
    }
}
```
Response bodies

GetRevealConfigurationResponse schema

```json
{
   "configuration": {
      "kmsKeyId": "string",
      "status": enum
   },
   "retrievalConfiguration": {
      "externalId": "string",
      "retrievalMode": enum,
      "roleName": "string"
   }
}
```

UpdateRevealConfigurationResponse schema

```json
{
   "configuration": {
      "kmsKeyId": "string",
      "status": enum
   },
   "retrievalConfiguration": {
      "externalId": "string",
      "retrievalMode": enum,
      "roleName": "string"
   }
}
```

ValidationException schema

```json
{
   "message": "string"
}
```

AccessDeniedException schema

```json
{
   "message": "string"
}
```

ThrottlingException schema

```json
{
   "message": "string"
}
```

InternalServerException schema

```json
{
   "message": "string"
}
```
Properties

AccessDeniedException
Provides information about an error that occurred due to insufficient access to a specified resource.

message
The explanation of the error that occurred.

  Type: string
  Required: False

GetRevealConfigurationResponse
Provides information about the configuration settings for retrieving occurrences of sensitive data reported by findings, and the status of the configuration for an Amazon Macie account.

configuration
The AWS KMS key that's used to encrypt the sensitive data, and the status of the configuration for the Amazon Macie account.

  Type: RevealConfiguration (p. 313)
  Required: True

retrievalConfiguration
The access method and settings that are used to retrieve the sensitive data.

  Type: RetrievalConfiguration (p. 312)
  Required: True

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

  Type: string
  Required: False

RetrievalConfiguration
Provides information about the access method and settings that are used to retrieve occurrences of sensitive data reported by findings.

externalId
The external ID to specify in the trust policy for the IAM role to assume when retrieving sensitive data from affected S3 objects (roleName). This value is null if the value for retrievalMode is CALLER_CREDENTIALS.
This ID is a unique alphanumeric string that Amazon Macie generates automatically after you configure it to assume an IAM role. For a Macie administrator to retrieve sensitive data from an affected S3 object for a member account, the trust policy for the role in the member account must include an `sts:ExternalId` condition that requires this ID.

**Type:** string  
**Required:** False

### retrievalMode

The access method that's used when retrieving sensitive data from affected S3 objects. Valid values are: `ASSUME_ROLE`, assume an IAM role that is in the affected AWS account and delegates access to Amazon Macie (`roleName`); and, `CALLER_CREDENTIALS`, use the credentials of the IAM user who requests the sensitive data.

**Type:** `RetrievalMode`  
**Required:** True

### roleName

The name of the IAM role that is in the affected AWS account and Amazon Macie is allowed to assume when retrieving sensitive data from affected S3 objects for the account. This value is null if the value for `retrievalMode` is `CALLER_CREDENTIALS`.

**Type:** string  
**Required:** False  
**Pattern:** `^[\w+=,.@-]*$`  
**MinLength:** 1  
**MaxLength:** 64

### RetrievalMode

The access method to use when retrieving occurrences of sensitive data reported by findings. Valid values are:

- `CALLER_CREDENTIALS`  
- `ASSUME_ROLE`

### RevealConfiguration

Specifies the status of the Amazon Macie configuration for retrieving occurrences of sensitive data reported by findings, and the AWS Key Management Service (AWS KMS) key to use to encrypt sensitive data that's retrieved. When you enable the configuration for the first time, your request must specify an AWS KMS key. Otherwise, an error occurs.

### kmsKeyId

The Amazon Resource Name (ARN), ID, or alias of the AWS KMS key to use to encrypt sensitive data that's retrieved. The key must be an existing, customer managed, symmetric encryption key that's enabled in the same AWS Region as the Amazon Macie account.

If this value specifies an alias, it must include the following prefix: `alias/`. If this value specifies a key that's owned by another AWS account, it must specify the ARN of the key or the ARN of the key's alias.

**Type:** string
**status**

The status of the configuration for the Amazon Macie account. In a response, possible values are: ENABLED, the configuration is currently enabled for the account; and, DISABLED, the configuration is currently disabled for the account. In a request, valid values are: ENABLED, enable the configuration for the account; and, DISABLED, disable the configuration for the account.

**Important**

If you disable the configuration, you also permanently delete current settings that specify how to access affected S3 objects. If your current access method is ASSUME_ROLE, Macie also deletes the external ID and role name currently specified for the configuration. These settings can't be recovered after they're deleted.

**Type:** RevealStatus (p. 314)

**Required:** False

**RevealStatus**

The status of the configuration for retrieving occurrences of sensitive data reported by findings. Valid values are:

- ENABLED
- DISABLED

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

**Type:** string

**Required:** False

**UpdateRetrievalConfiguration**

Specifies the access method and settings to use when retrieving occurrences of sensitive data reported by findings. If your request specifies an AWS Identity and Access Management (IAM) role to assume when retrieving the sensitive data, Amazon Macie verifies that the role exists and the attached policies are configured correctly. If there's an issue, Macie returns an error. For information about addressing the issue, see Retrieving sensitive data samples with findings in the Amazon Macie User Guide.

**retrievalMode**

The access method to use when retrieving sensitive data from affected S3 objects. Valid values are: ASSUME_ROLE, assume an IAM role that is in the affected AWS account and delegates access to Amazon Macie; and, CALLER_CREDENTIALS, use the credentials of the IAM user who requests the sensitive data. If you specify ASSUME_ROLE, also specify the name of an existing IAM role for Macie to assume (roleName).
Important
If you change this value from ASSUME_ROLE to CALLER_CREDENTIALS for an existing configuration, Macie permanently deletes the external ID and role name currently specified for the configuration. These settings can't be recovered after they're deleted.

**Type:** RetrievalMode (p. 313)
**Required:** True

**roleName**
The name of the IAM role that is in the affected AWS account and Amazon Macie is allowed to assume when retrieving sensitive data from affected S3 objects for the account. The trust and permissions policies for the role must meet all requirements for Macie to assume the role.

**Type:** string
**Required:** False
**Pattern:** ^\[\w+=,.@-]*$
**MinLength:** 1
**MaxLength:** 64

**UpdateRevealConfigurationRequest**
Specifies configuration settings for retrieving occurrences of sensitive data reported by findings, and the status of the configuration for an Amazon Macie account. If you don't specify retrievalConfiguration values for an existing configuration, Macie sets the access method to CALLER_CREDENTIALS. If your current access method is ASSUME_ROLE, Macie also deletes the external ID and role name currently specified for the configuration. To keep these settings for an existing configuration, specify the current retrievalConfiguration values in your request.

**configuration**
The AWS KMS key to use to encrypt the sensitive data, and the status of the configuration for the Amazon Macie account.

**Type:** RevealConfiguration (p. 313)
**Required:** True

**retrievalConfiguration**
The access method and settings to use to retrieve the sensitive data.

**Type:** UpdateRetrievalConfiguration (p. 314)
**Required:** False

**UpdateRevealConfigurationResponse**
Provides information about updated configuration settings for retrieving occurrences of sensitive data reported by findings, and the status of the configuration for an Amazon Macie account.

**configuration**
The AWS KMS key to use to encrypt the sensitive data, and the status of the configuration for the Amazon Macie account.

**Type:** RevealConfiguration (p. 313)
Required: True

retrievalConfiguration

The access method and settings to use to retrieve the sensitive data.

Type: RetrievalConfiguration (p. 312)
Required: True

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetRevealConfiguration

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateRevealConfiguration

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Findings Filter

The Findings Filter resource represents an individual filter that you created and saved to review, analyze, and manage findings. A findings filter, also referred to as a filter, is a set of criteria that specifies which findings to include in the results of a query for findings. A findings filter can also perform specific actions on findings that match the filter's criteria. For example, you can configure a filter to suppress (automatically archive) findings that match the filter's criteria. For more information about creating and using filters, see Filtering findings in the Amazon Macie User Guide.

You can use the Findings Filter resource to update, delete, or retrieve detailed information about a findings filter. To create a new filter, use the Findings Filters resource.

URI

/findingsfilters/id

HTTP methods

DELETE

Operation ID: DeleteFindingsFilter

Deletes a findings filter.

Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 320)</td>
<td>The request succeeded. The specified findings filter was deleted and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 321)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 321)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 321)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
</tbody>
</table>
### GET

**Operation ID:** GetFindingsFilter

Retrieves the criteria and other settings for a findings filter.

#### Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

#### Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetFindingsFilterResponse (p. 319)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 321)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 321)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 321)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 321)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 321)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
</tbody>
</table>
## PATCH

**Operation ID:** UpdateFindingsFilter

Updates the criteria and other settings for a findings filter.

### Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

### Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>UpdateFindingsFilterResponse</td>
<td>The request succeeded. The specified findings filter was updated.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 321)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 321)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 321)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 321)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 321)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
</tbody>
</table>
Schemas

Request bodies

PATCH schema

```
{
  "action": enum,
  "clientToken": "string",
  "description": "string",
  "findingCriteria": {
    "criterion": {
      ...
    }
  },
  "name": "string",
  "position": integer
}
```

Response bodies

Empty Schema schema

```
{}
```

GetFindingsFilterResponse schema

```
{
  "action": enum,
  "arn": "string",
  "description": "string",
  "findingCriteria": {
    "criterion": {
      ...
    }
  },
  "id": "string",
  "name": "string",
  "position": integer,
  "tags": {
    ...
  }
}
```

UpdateFindingsFilterResponse schema

```
{
  "arn": "string",
  "id": "string"
}
```
<table>
<thead>
<tr>
<th>Exception</th>
<th>Schema</th>
</tr>
</thead>
<tbody>
<tr>
<td>ValidationException</td>
<td><code>{ &quot;message&quot;: &quot;string&quot; }</code></td>
</tr>
<tr>
<td>ServiceQuotaExceededException</td>
<td><code>{ &quot;message&quot;: &quot;string&quot; }</code></td>
</tr>
<tr>
<td>AccessDeniedException</td>
<td><code>{ &quot;message&quot;: &quot;string&quot; }</code></td>
</tr>
<tr>
<td>ResourceNotFoundException</td>
<td><code>{ &quot;message&quot;: &quot;string&quot; }</code></td>
</tr>
<tr>
<td>ConflictException</td>
<td><code>{ &quot;message&quot;: &quot;string&quot; }</code></td>
</tr>
<tr>
<td>ThrottlingException</td>
<td><code>{ &quot;message&quot;: &quot;string&quot; }</code></td>
</tr>
<tr>
<td>InternalServerException</td>
<td><code>{ &quot;message&quot;: &quot;string&quot; }</code></td>
</tr>
</tbody>
</table>

**Properties**

**AccessDeniedException**

Provides information about an error that occurred due to insufficient access to a specified resource.
message
The explanation of the error that occurred.

Type: string
Required: False

ConflictException
Provides information about an error that occurred due to a versioning conflict for a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

Criterion
Specifies a condition that defines a property, operator, and one or more values to filter the results of a query for findings. The number of values depends on the property and operator specified by the condition. For information about defining filter conditions, see Fundamentals of filtering findings in the Amazon Macie User Guide.

key-value pairs
Type: object

CriterionAdditionalProperties
Specifies the operator to use in a property-based condition that filters the results of a query for findings. For detailed information and examples of each operator, see Fundamentals of filtering findings in the Amazon Macie User Guide.

eq
The value for the property matches (equals) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

Type: Array of type string
Required: False

eqExactMatch
The value for the property exclusively matches (equals an exact match for) all the specified values. If you specify multiple values, Amazon Macie uses AND logic to join the values.

You can use this operator with the following properties: customDataIdentifiers.detections.arn, customDataIdentifiers.detections.name, resourcesAffected.s3Bucket.tags.key, resourcesAffected.s3Bucket.tags.value, resourcesAffected.s3Object.tags.key, resourcesAffected.s3Object.tags.value, sensitiveData.category, and sensitiveData.detections.type.

Type: Array of type string
Properties

**Required**: False

**gt**
The value for the property is greater than the specified value.

Type: integer
Required: False
Format: int64

**gte**
The value for the property is greater than or equal to the specified value.

Type: integer
Required: False
Format: int64

**lt**
The value for the property is less than the specified value.

Type: integer
Required: False
Format: int64

**lte**
The value for the property is less than or equal to the specified value.

Type: integer
Required: False
Format: int64

**neq**
The value for the property doesn't match (doesn't equal) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

Type: Array of type string
Required: False

**Empty**
The request succeeded and there isn't any content to include in the body of the response (No Content).

**FindingCriteria**
Specifies, as a map, one or more property-based conditions that filter the results of a query for findings.

**criterion**
A condition that specifies the property, operator, and one or more values to use to filter the results.

Type: Criterion (p. 322)
Required: False

FindingsFilterAction

The action to perform on findings that match the filter criteria. To suppress (automatically archive) findings that match the criteria, set this value to ARCHIVE. Valid values are:

- ARCHIVE
- NOOP

GetFindingsFilterResponse

Provides information about the criteria and other settings for a findings filter.

action

The action that's performed on findings that match the filter criteria (findingCriteria). Possible values are: ARCHIVE, suppress (automatically archive) the findings; and, NOOP, don't perform any action on the findings.

Type: FindingsFilterAction (p. 324)  
Required: False

arn

The Amazon Resource Name (ARN) of the filter.

Type: string  
Required: False

description

The custom description of the filter.

Type: string  
Required: False

findingCriteria

The criteria that's used to filter findings.

Type: FindingCriteria (p. 323)  
Required: False

id

The unique identifier for the filter.

Type: string  
Required: False

name

The custom name of the filter.
Properties

Type: string
Required: False

position

The position of the filter in the list of saved filters on the Amazon Macie console. This value also determines the order in which the filter is applied to findings, relative to other filters that are also applied to the findings.

Type: integer
Required: False
Format: int32

tags

A map of key-value pairs that specifies which tags (keys and values) are associated with the filter.

Type: TagMap (p. 326)
Required: False

InternalServerErrorException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string
TagMap

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

key-value pairs

Type: string

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string

UpdateFindingsFilterRequest

Specifies the criteria and other settings for a findings filter.

action

The action to perform on findings that match the filter criteria (findingCriteria). Valid values are: ARCHIVE, suppress (automatically archive) the findings; and, NOOP, don't perform any action on the findings.

Type: FindingsFilterAction (p. 324)

Required: False

clientToken

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

Type: string

Required: False

description

A custom description of the filter. The description can contain as many as 512 characters.

We strongly recommend that you avoid including any sensitive data in the description of a filter. Other users of your account might be able to see this description, depending on the actions that they’re allowed to perform in Amazon Macie.

Type: string
Properties

Required: False

findingCriteria

The criteria to use to filter findings.

Type: FindingCriteria (p. 323)
Required: False

name

A custom name for the filter. The name must contain at least 3 characters and can contain as many as 64 characters.

We strongly recommend that you avoid including any sensitive data in the name of a filter. Other users of your account might be able to see this name, depending on the actions that they’re allowed to perform in Amazon Macie.

Type: string
Required: False

position

The position of the filter in the list of saved filters on the Amazon Macie console. This value also determines the order in which the filter is applied to findings, relative to other filters that are also applied to the findings.

Type: integer
Required: False
Format: int32

UpdateFindingsFilterResponse

Provides information about a findings filter that was updated in response to a request.

arn

The Amazon Resource Name (ARN) of the filter that was updated.

Type: string
Required: False

id

The unique identifier for the filter that was updated.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.
message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DeleteFindingsFilter

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetFindingsFilter

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateFindingsFilter

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
Findings Filters

The Findings Filters resource represents the repository of filters that you create and save to review, analyze, and manage findings. A findings filter, also referred to as a filter, is a set of criteria that specifies which findings to include in the results of a query for findings. A findings filter can also perform specific actions on findings that match the filter's criteria. For example, you can configure a filter to suppress (automatically archive) findings that match the filter's criteria. For more information about creating and using filters, see Filtering findings in the Amazon Macie User Guide.

You can use the Findings Filters resource to create a new filter or retrieve information about all the existing filters for your Amazon Macie account. To update, delete, or retrieve detailed information about an individual filter, use the Findings Filter (p. 317) resource.

URI

/findingsfilters

HTTP methods

GET

Operation ID: ListFindingsFilters

Retrieves a subset of information about all the findings filters for an account.

Query parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to return in a paginated response.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>The maximum number of items to include in each page of a paginated response.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListFindingsFiltersResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
</tbody>
</table>
POST

Operation ID: CreateFindingsFilter

Creates and defines the criteria and other settings for a findings filter.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>CreateFindingsFilterResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 332)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 332)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 332)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 332)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 332)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
</tbody>
</table>
## Schemas

### Request bodies

**POST schema**

```json
{
  "action": enum,
  "clientToken": "string",
  "description": "string",
  "findingCriteria": {
    "criterion": {
    }
  },
  "name": "string",
  "position": integer,
  "tags": {
  }
}
```

### Response bodies

**ListFindingsFiltersResponse schema**

```json
{
  "findingsFilterListItems": [
  {
    "action": enum,
    "arn": "string",
    "id": "string",
    "name": "string",
    "tags": {
    }
  }
  ],
  "nextToken": "string"
}
```

**CreateFindingsFilterResponse schema**

```json
{
  "arn": "string",
  "id": "string"
}
```
ValidationException schema

```
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
  "message": "string"
}
```

ResourceNotFoundException schema

```
{
  "message": "string"
}
```

ConflictException schema

```
{
  "message": "string"
}
```

ThrottlingException schema

```
{
  "message": "string"
}
```

InternalServerException schema

```
{
  "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.
message
The explanation of the error that occurred.

Type: string
Required: False

ConflictException
Provides information about an error that occurred due to a versioning conflict for a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

CreateFindingsFilterRequest
Specifies the criteria and other settings for a new findings filter.

action
The action to perform on findings that match the filter criteria (findingCriteria). Valid values are: ARCHIVE, suppress (automatically archive) the findings; and, NOOP, don't perform any action on the findings.

Type: FindingsFilterAction (p. 336)
Required: True

clientToken
A unique, case-sensitive token that you provide to ensure the idempotency of the request.

Type: string
Required: False

description
A custom description of the filter. The description can contain as many as 512 characters.

We strongly recommend that you avoid including any sensitive data in the description of a filter. Other users of your account might be able to see this description, depending on the actions that they're allowed to perform in Amazon Macie.

Type: string
Required: False

findingCriteria
The criteria to use to filter findings.

Type: FindingCriteria (p. 336)
Required: True
name

A custom name for the filter. The name must contain at least 3 characters and can contain as many as 64 characters.

We strongly recommend that you avoid including any sensitive data in the name of a filter. Other users of your account might be able to see this name, depending on the actions that they're allowed to perform in Amazon Macie.

Type: string

Required: True

position

The position of the filter in the list of saved filters on the Amazon Macie console. This value also determines the order in which the filter is applied to findings, relative to other filters that are also applied to the findings.

Type: integer

Required: False

Format: int32

tags

A map of key-value pairs that specifies the tags to associate with the filter.

A findings filter can have a maximum of 50 tags. Each tag consists of a tag key and an associated tag value. The maximum length of a tag key is 128 characters. The maximum length of a tag value is 256 characters.

Type: TagMap (p. 338)

Required: False

CreateFindingsFilterResponse

Provides information about a findings filter that was created in response to a request.

arn

The Amazon Resource Name (ARN) of the filter that was created.

Type: string

Required: False

id

The unique identifier for the filter that was created.

Type: string

Required: False

Criterion

Specifies a condition that defines a property, operator, and one or more values to filter the results of a query for findings. The number of values depends on the property and operator specified by the
condition. For information about defining filter conditions, see Fundamentals of filtering findings in the Amazon Macie User Guide.

**key-value pairs**

*Type: object*

### CriterionAdditionalProperties

Specifies the operator to use in a property-based condition that filters the results of a query for findings. For detailed information and examples of each operator, see Fundamentals of filtering findings in the Amazon Macie User Guide.

**eq**

The value for the property matches (equals) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

*Type: Array of type string*
*Required: False*

**eqExactMatch**

The value for the property exclusively matches (equals an exact match for) all the specified values. If you specify multiple values, Amazon Macie uses AND logic to join the values.

You can use this operator with the following properties: customDataIdentifiers.detections.arn, customDataIdentifiers.detections.name, resourcesAffected.s3Bucket.tags.key, resourcesAffected.s3Bucket.tags.value, resourcesAffected.s3Object.tags.key, resourcesAffected.s3Object.tags.value, sensitiveData.category, and sensitiveData.detections.type.

*Type: Array of type string*
*Required: False*

**gt**

The value for the property is greater than the specified value.

*Type: integer*
*Required: False*
*Format: int64*

**gte**

The value for the property is greater than or equal to the specified value.

*Type: integer*
*Required: False*
*Format: int64*

**lt**

The value for the property is less than the specified value.
Type: integer  
Required: False  
Format: int64

**lte**

The value for the property is less than or equal to the specified value.

Type: integer  
Required: False  
Format: int64

**neq**

The value for the property doesn't match (doesn't equal) the specified value. If you specify multiple values, Macie uses OR logic to join the values.

Type: Array of type string  
Required: False

**FindingCriteria**

Specifies, as a map, one or more property-based conditions that filter the results of a query for findings.

**criterion**

A condition that specifies the property, operator, and one or more values to use to filter the results.

Type: [Criterion](p. 334)  
Required: False

**FindingsFilterAction**

The action to perform on findings that match the filter criteria. To suppress (automatically archive) findings that match the criteria, set this value to ARCHIVE. Valid values are:

- ARCHIVE
- NOOP

**FindingsFilterListItem**

Provides information about a findings filter.

**action**

The action that's performed on findings that match the filter criteria. Possible values are: ARCHIVE, suppress (automatically archive) the findings; and, NOOP, don't perform any action on the findings.

Type: [FindingsFilterAction](p. 336)  
Required: False

**arn**

The Amazon Resource Name (ARN) of the filter.
Properties

Type: string
Required: False

id
The unique identifier for the filter.

Type: string
Required: False

name
The custom name of the filter.

Type: string
Required: False

tags
A map of key-value pairs that specifies which tags (keys and values) are associated with the filter.

Type: TagMap
Required: False

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

ListFindingsFiltersResponse
Provides information about all the findings filters for an account.

findingsFilterListItems
An array of objects, one for each filter that's associated with the account.

Type: Array of type FindingsFilterListItems
Required: False

nextToken
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.
  Type: string
  Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.
  Type: string
  Required: False

TagMap
A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

key-value pairs
  Type: string

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.
  Type: string
  Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.
Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

ListFindingsFilters
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateFindingsFilter
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Invitation Acceptance

In Amazon Macie, an invitation, also referred to as a membership invitation, is a request to become a member of an organization in Macie. An organization is a set of Macie accounts that are centrally managed as a group of related accounts. For more information, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

You can use the Invitation Acceptance resource to access membership invitations that you've received and haven't responded to, and to accept one of those invitations. To accept an invitation, you have to specify the unique identifier for the invitation and the account ID for the AWS account that sent the invitation. To find these IDs, you can use the Invitation List (p. 359) resource.

URI

/invitations/accept
HTTP methods

POST

Operation ID: AcceptInvitation

Accepts an Amazon Macie membership invitation that was received from a specific account.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 341)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 341)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 341)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 341)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 341)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 341)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 341)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 341)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

POST schema

```json
{
    "administratorAccountId": "string",
    "invitationId": "string",
    "masterAccount": "string"
}
```
Response bodies

Empty Schema schema

{}

ValidationException schema

{}

ServiceQuotaExceededException schema

{}

AccessDeniedException schema

{}

ResourceNotFoundException schema

{}

ConflictException schema

{}

ThrottlingException schema

{}

InternalServerException schema

{  
  "message": "string"
}
Properties

AcceptInvitationRequest

Specifies an Amazon Macie membership invitation to accept. In the request, you have to specify the ID for the AWS account that sent the invitation. Otherwise, a validation error occurs. To specify this ID, we recommend that you use the administratorAccountId property instead of the masterAccount property. The masterAccount property has been deprecated and is retained only for backward compatibility.

administratorAccountId

The AWS account ID for the account that sent the invitation.

- Type: string
- Required: False

invitationId

The unique identifier for the invitation to accept.

- Type: string
- Required: True

masterAccount

(Deprecated) The AWS account ID for the account that sent the invitation. This property has been replaced by the administratorAccountId property and is retained only for backward compatibility.

- Type: string
- Required: False

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

- Type: string
- Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

- Type: string
- Required: False
Empty
The request succeeded and there isn't any content to include in the body of the response (No Content).

InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

  Type: string
  Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

  Type: string
  Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

  Type: string
  Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

  Type: string
  Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.
message
The explanation of the error that occurred.

Type: string
Required: False

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see
the following:

AcceptInvitation

AWS Command Line Interface
AWS SDK for .NET
AWS SDK for C++
AWS SDK for Go
AWS SDK for Java V2
AWS SDK for JavaScript V3
AWS SDK for PHP V3
AWS SDK for Python
AWS SDK for Ruby V3

Invitation Count

In Amazon Macie, an invitation, also referred to as a membership invitation, is a request to become
a member of an organization in Macie. An organization is a set of Macie accounts that are centrally
managed as a group of related accounts. For more information, see Managing multiple Amazon Macie
accounts in the Amazon Macie User Guide.

You can use the Invitation Count resource to retrieve the total number of Macie membership invitations
that you've received and haven't deleted. If you accepted an invitation to join your current organization,
this number doesn't include that invitation.

URI

/invitations/count

HTTP methods

GET

Operation ID: GetInvitationsCount

Retrieves the count of Amazon Macie membership invitations that were received by an account.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetInvitationsCountResponse</td>
<td>The request succeeded.</td>
</tr>
</tbody>
</table>
### Status codes

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td><code>ValidationException (p. 345)</code></td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td><code>ServiceQuotaExceededException</code></td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td><code>AccessDeniedException (p. 346)</code></td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td><code>ResourceNotFoundException</code></td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td><code>ConflictException (p. 346)</code></td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td><code>ThrottlingException (p. 346)</code></td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td><code>InternalServerException (p. 347)</code></td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Response bodies

**GetInvitationsCountResponse schema**

```json
{
   "invitationsCount": integer
}
```

**ValidationException schema**

```json
{
   "message": "string"
}
```

**ServiceQuotaExceededException schema**

```json
{
   "message": "string"
}
```
AccessDeniedException schema

```json
{
    "message": "string"
}
```

ResourceNotFoundException schema

```json
{
    "message": "string"
}
```

ConflictException schema

```json
{
    "message": "string"
}
```

ThrottlingException schema

```json
{
    "message": "string"
}
```

InternalServerException schema

```json
{
    "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**

The explanation of the error that occurred.

Type: string

Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**

The explanation of the error that occurred.

Type: string
Properties

GetInvitationsCountResponse

Provides the count of all the Amazon Macie membership invitations that were received by an account, not including the currently accepted invitation.

invitationsCount

The total number of invitations that were received by the account, not including the currently accepted invitation.

Type: integer
Required: False
Format: int64

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string
Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.
**message**

The explanation of the error that occurred.

  Type: string  
  Required: False

**ValidationException**

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.

  Type: string  
  Required: False

**See also**

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

*GetInvitationsCount*

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**Invitation Decline**

In Amazon Macie, an *invitation*, also referred to as a *membership invitation*, is a request to become a member of an organization in Macie. An *organization* is a set of Macie accounts that are centrally managed as a group of related accounts. For more information, see [Managing multiple Amazon Macie accounts](https://docs.aws.amazon.com/macie/latest/userguide/invitations.html) in the *Amazon Macie User Guide*.

You can use the Invitation Decline resource to access membership invitations that you've received and haven't responded to, and to decline one or more of those invitations. To decline an invitation, you have to specify the account ID for the AWS account that sent the invitation. To find this ID, you can use the [Invitation List](https://docs.aws.amazon.com/macie/latest/userguide/invitations.html) resource. After you decline an invitation, you can optionally delete it by using the [Invitation Deletion](https://docs.aws.amazon.com/macie/latest/userguide/invitations.html) resource.

**URI**

/invitations/decline
**HTTP methods**

**POST**

**Operation ID:** DeclineInvitations

Declines Amazon Macie membership invitations that were received from specific accounts.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td><strong>DeclineInvitationsResponse</strong></td>
<td>The request succeeded. Processing might not be complete.</td>
</tr>
<tr>
<td>400</td>
<td><strong>ValidationException</strong> (p. 350)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td><strong>ServiceQuotaExeceededException</strong></td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td><strong>AccessDeniedException</strong> (p. 350)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td><strong>ResourceNotFoundException</strong> (p. 350)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td><strong>ConflictException</strong> (p. 350)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td><strong>ThrottlingException</strong> (p. 350)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td><strong>InternalServerException</strong> (p. 351)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**Schemas**

**Request bodies**

**POST schema**

```json
{
  "accountIds": [
    "string"
  ]
}
```
Response bodies

DeclineInvitationsResponse schema

```json
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "errorCode": enum,
      "errorMessage": "string"
    }
  ]
}
```

ValidationException schema

```json
{
  "message": "string"
}
```

ServiceQuotaExceeded.Exception schema

```json
{
  "message": "string"
}
```

AccessDeniedException schema

```json
{
  "message": "string"
}
```

ResourceNotFoundException schema

```json
{
  "message": "string"
}
```

ConflictException schema

```json
{
  "message": "string"
}
```

ThrottlingException schema

```json
{
  "message": "string"
}
```
InternalServerException schema

```json
{
    "message": "string"
}
```

## Properties

### AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

- **message**
  
The explanation of the error that occurred.
  
  - **Type:** string
  - **Required:** False

### ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

- **message**
  
The explanation of the error that occurred.
  
  - **Type:** string
  - **Required:** False

### DeclineInvitationsRequest

Specifies one or more accounts that sent Amazon Macie membership invitations to decline.

- **accountIds**
  
  An array that lists AWS account IDs, one for each account that sent an invitation to decline.
  
  - **Type:** Array of type string
  - **Required:** True

### DeclineInvitationsResponse

Provides information about unprocessed requests to decline Amazon Macie membership invitations that were received from specific accounts.

- **unprocessedAccounts**
  
  An array of objects, one for each account whose invitation hasn't been declined. Each object identifies the account and explains why the request hasn't been processed for that account.
  
  - **Type:** Array of type `UnprocessedAccount (p. 353)`
Required: False

**ErrorCode**

The source of an issue or delay. Possible values are:

- ClientError
- InternalError

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

- Type: string
- Required: False

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

- Type: string
- Required: False

**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

- Type: string
- Required: False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

- Type: string
- Required: False
UnprocessedAccount

Provides information about an account-related request that hasn't been processed.

accountId

The AWS account ID for the account that the request applies to.

Type: string
Required: False

errorCode

The source of the issue or delay in processing the request.

Type: ErrorCode (p. 352)
Required: False

errorMessage

The reason why the request hasn't been processed.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DeclineInvitations

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
Invitation Deletion

In Amazon Macie, an *invitation*, also referred to as a *membership invitation*, is a request to become a member of an organization in Macie. An *organization* is a set of Macie accounts that are centrally managed as a group of related accounts. For more information, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

You can use the Invitation Deletion resource to access membership invitations that you've received and declined, and to delete one or more of those invitations. If you accepted an invitation to join your current organization, you cannot delete that invitation.

To delete an invitation, you have to specify the account ID for the AWS account that sent the invitation. To find this ID, you can use the Invitation List (p. 359) resource.

**URI**

/invitations/delete

**HTTP methods**

POST

**Operation ID:** DeleteInvitations

Deletes Amazon Macie membership invitations that were received from specific accounts.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>DeleteInvitationsResponse</td>
<td>The request succeeded. Processing might not be complete.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 355)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 356)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 356)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
</tbody>
</table>
Schemas

Request bodies

POST schema

```json
{
    "accountId": [  
        "string"
    ]
}
```

Response bodies

DeleteInvitationsResponse schema

```json
{
    "unprocessedAccounts": [  
        {
            "accountId": "string",
            "errorCode": enum,
            "errorMessage": "string"
        }
    ]
}
```

ValidationException schema

```json
{
    "message": "string"
}
```

ServiceQuotaExceedededException schema

```json
{
    "message": "string"
}
```

AccessDeniedException schema

```json
{
    "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False
DeleteInvitationsRequest

Specifies one or more accounts that sent Amazon Macie membership invitations to delete.

accountIds

An array that lists AWS account IDs, one for each account that sent an invitation to delete.

  Type: Array of type string
  Required: True

DeleteInvitationsResponse

Provides information about unprocessed requests to delete Amazon Macie membership invitations that were received from specific accounts.

unprocessedAccounts

An array of objects, one for each account whose invitation hasn't been deleted. Each object identifies the account and explains why the request hasn't been processed for that account.

  Type: Array of type UnprocessedAccount (p. 358)
  Required: False

ErrorCode

The source of an issue or delay. Possible values are:

  ClientError
  InternalError

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

  Type: string
  Required: False
**ServiceQuotaExceededException**
Provides information about an error that occurred due to one or more service quotas for an account.

**message**
The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**ThrottlingException**
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**
The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**UnprocessedAccount**
Provides information about an account-related request that hasn't been processed.

**accountId**
The AWS account ID for the account that the request applies to.

- **Type**: string
- **Required**: False

**errorCode**
The source of the issue or delay in processing the request.

- **Type**: [ErrorCode](p. 357)
- **Required**: False

**errorMessage**
The reason why the request hasn't been processed.

- **Type**: string
- **Required**: False

**ValidationException**
Provides information about an error that occurred due to a syntax error in a request.

**message**
The explanation of the error that occurred.
**Type:** string  
**Required:** False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DeleteInvitations

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Invitation List

In Amazon Macie, an *invitation*, also referred to as a *membership invitation*, is a request to become a member of an organization in Macie. An *organization* is a set of Macie accounts that are centrally managed as a group of related accounts. For more information, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

You can use the Invitation List resource to retrieve information about all the Macie membership invitations that you've received and haven't deleted. For each invitation, this information includes:

- The unique identifier for the invitation.
- The account ID for the AWS account that sent the invitation.
- The current status of the relationship between your account and the account that sent the invitation.

You can also use this resource to send a membership invitation to other AWS accounts. To send an invitation to another account, you first have to associate the account with your account. You can do this by using the Members (p. 396) resource.

**URI**

/invitations

**HTTP methods**

GET

**Operation ID:** ListInvitations
Retrieves information about the Amazon Macie membership invitations that were received by an account.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to return in a paginated response.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>The maximum number of items to include in each page of a paginated response.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListInvitationsResponse (p. 360)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 362)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 363)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 363)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 363)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 362)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 363)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 363)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**POST**

**Operation ID:** CreateInvitations

Sends an Amazon Macie membership invitation to one or more accounts.
### Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>CreateInvitationsResponse (p. 362)</td>
<td>The request succeeded. Processing might not be complete.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 362)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 362)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 362)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 362)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 362)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 362)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 363)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**POST schema**

```
{
    "accountId": [ "string" ],
    "disableEmailNotification": boolean,
    "message": "string"
}
```

#### Response bodies

**ListInvitationsResponse schema**

```
{
```

---

361
CreateInvitationsResponse schema

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "invitationId": "string",
      "invitedAt": "string",
      "relationshipStatus": enum
    }
  ],
  "nextToken": "string"
}
```

ValidationException schema

```
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
  "message": "string"
}
```

ResourceNotFoundException schema

```
{
  "message": "string"
}
```

ConflictException schema

```
{
  "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

CreateInvitationsRequest

Specifies the settings for an Amazon Macie membership invitation. When you send an invitation, Macie notifies the recipient by creating an AWS Health event for the recipient's account and, if Macie is already enabled for the account, displaying an Accounts badge and notification on the recipient's console. You can optionally notify the recipient by also sending the invitation as an email message.

accountIds

An array that lists AWS account IDs, one for each account to send the invitation to.

Type: Array of type string
Required: True
**disableEmailNotification**

Specifies whether to send the invitation as an email message. If this value is `false`, Amazon Macie sends the invitation (as an email message) to the email address that you specified for the recipient’s account when you associated the account with your account. The default value is `false`.

- **Type**: boolean
- **Required**: False

**message**

Custom text to include in the email message that contains the invitation. The text can contain as many as 80 alphanumeric characters.

- **Type**: string
- **Required**: False

**CreateInvitationsResponse**

Provides information about an unprocessed request to send an Amazon Macie membership invitation to a specific account.

**unprocessedAccounts**

An array of objects, one for each account whose invitation hasn't been processed. Each object identifies the account and explains why the invitation hasn't been processed for the account.

- **Type**: Array of type `UnprocessedAccount` (p. 366)
- **Required**: False

**ErrorCode**

The source of an issue or delay. Possible values are:

- **ClientError**
- **InternalError**

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

- **Type**: string
- **Required**: False

**Invitation**

Provides information about an Amazon Macie membership invitation.
accountid
The AWS account ID for the account that sent the invitation.

Type: string
Required: False

invitationId
The unique identifier for the invitation.

Type: string
Required: False

invitedAt
The date and time, in UTC and extended ISO 8601 format, when the invitation was sent.

Type: string
Required: False
Format: date-time

relationshipStatus
The status of the relationship between the account that sent the invitation and the account that received
the invitation.

Type: RelationshipStatus (p. 365)
Required: False

ListInvitationsResponse
Provides information about the Amazon Macie membership invitations that were received by an account.

invitations
An array of objects, one for each invitation that was received by the account.

Type: Array of type Invitation (p. 364)
Required: False

dextToken
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

RelationshipStatus
The current status of the relationship between an account and an associated Amazon Macie administrator account. Possible values are:
Enabled
Paused
Invited
Created
Removed
Resigned
EmailVerificationInProgress
EmailVerificationFailed
RegionDisabled
AccountSuspended

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

Type: string
Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

Type: string
Required: False

UnprocessedAccount
Provides information about an account-related request that hasn't been processed.

accountId
The AWS account ID for the account that the request applies to.

Type: string
Required: False
errorCode

The source of the issue or delay in processing the request.

- **Type:** ErrorCode (p. 364)
- **Required:** False

errorMessage

The reason why the request hasn't been processed.

- **Type:** string
- **Required:** False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**ListInvitations**

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

**CreateInvitations**

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
The Managed Data Identifiers resource represents the repository of managed data identifiers that Amazon Macie currently provides. A managed data identifier is a set of built-in criteria and techniques that are designed to detect a specific type of sensitive data. The types include credit card numbers, AWS secret access keys, or passport numbers for a particular country or region. Managed data identifiers can detect a large and growing list of sensitive data types for many countries and regions, including multiple types of financial data, credentials data, and personally identifiable information (PII). For information about the categories and types of sensitive data that they can detect, see Using managed data identifiers in the Amazon Macie User Guide.

To detect sensitive data with managed data identifiers, create and run classification jobs. If you're the Macie administrator for an organization or you have a standalone Macie account, you can also enable automated sensitive data discovery for your account. Both options provide settings for specifying which managed data identifiers you want Macie to use when it analyzes objects in Amazon Simple Storage Service (Amazon S3) buckets. When you configure the settings, you specify the unique identifier (ID) for one or more managed data identifiers. You can use this resource to determine which ID to specify.

You can use the Managed Data Identifiers resource to retrieve information about the managed data identifiers that Macie currently provides.

URI

/managed-data-identifiers/list

HTTP methods

POST

Operation ID: ListManagedDataIdentifiers

Retrieves information about all the managed data identifiers that Amazon Macie currently provides.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListManagedDataIdentifiersResponse</td>
<td>The request succeeded.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

POST schema

```json
{
   "nextToken": "string"
}
```
Response bodies

ListManagedDataIdentifiersResponse schema

```json
{
   "items": [
      {
         "category": enum,
         "id": "string"
      }
   ],
   "nextToken": "string"
}
```

Properties

ListManagedDataIdentifiersRequest

Specifies criteria for paginating the results of a request for information about managed data identifiers.

nextToken

The nextToken string that specifies which page of results to return in a paginated response.

- **Type**: string
- **Required**: False

ListManagedDataIdentifiersResponse

Provides information about the managed data identifiers that Amazon Macie currently provides.

items

An array of objects, one for each managed data identifier.

- **Type**: Array of type ManagedDataIdentifierSummary
- **Required**: False

nextToken

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

- **Type**: string
- **Required**: False

ManagedDataIdentifierSummary

Provides information about a managed data identifier. For additional information, see Using managed data identifiers in the Amazon Macie User Guide.

category

The category of sensitive data that the managed data identifier detects: CREDENTIALS, for credentials data such as private keys or AWS secret access keys; FINANCIAL_INFORMATION, for financial data such
See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

ListManagedDataIdentifiers

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Master Account

This resource has been deprecated and is retained only for backward compatibility. It provides information about the Amazon Macie administrator account for your account. To retrieve information about the Macie administrator account for your account, use the Administrator resource instead of this resource. To learn about the relationship between your account and its Macie administrator account, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.
URI

/master

HTTP methods

GET

Operation ID: GetMasterAccount

(Deprecated) Retrieves information about the Amazon Macie administrator account for an account. This operation has been replaced by the GetAdministratorAccount (p. 20) operation.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetMasterAccountResponse (p. 371)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 372)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 373)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 372)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 373)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 372)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Response bodies

GetMasterAccountResponse schema

```json
{
}
```
"master": {
  "accountId": "string",
  "invitationId": "string",
  "invitedAt": "string",
  "relationshipStatus": enum
}
}

ValidationException schema

{
  "message": "string"
}

ServiceQuotaExceededException schema

{
  "message": "string"
}

AccessDeniedException schema

{
  "message": "string"
}

ResourceNotFoundException schema

{
  "message": "string"
}

ConflictException schema

{
  "message": "string"
}

ThrottlingException schema

{
  "message": "string"
}

InternalServerException schema

{
  "message": "string"
}
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

  Type: string
  Required: False

GetMasterAccountResponse

(Deprecated) Provides information about the Amazon Macie administrator account for an account. If the accounts are associated by a Macie membership invitation, the response also provides information about that invitation.

master

(Deprecated) The AWS account ID for the administrator account. If the accounts are associated by a Macie membership invitation, this object also provides details about the invitation that was sent to establish the relationship between the accounts.

  Type: Invitation (p. 373)
  Required: False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

  Type: string
  Required: False

Invitation

Provides information about an Amazon Macie membership invitation.
accountid

The AWS account ID for the account that sent the invitation.

   Type: string
   Required: False

invitationId

The unique identifier for the invitation.

   Type: string
   Required: False

invitedAt

The date and time, in UTC and extended ISO 8601 format, when the invitation was sent.

   Type: string
   Required: False
   Format: date-time

relationshipStatus

The status of the relationship between the account that sent the invitation and the account that received
the invitation.

   Type: RelationshipStatus (p. 374)
   Required: False

RelationshipStatus

The current status of the relationship between an account and an associated Amazon Macie
administrator account. Possible values are:

   Enabled
   Paused
   Invited
   Created
   Removed
   Resigned
   EmailVerificationInProgress
   EmailVerificationFailed
   RegionDisabled
   AccountSuspended

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.
ServiceQuotaExceededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string
Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string
Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetMasterAccount

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
Master Disassociation

This resource has been deprecated and is retained only for backward compatibility. If you joined an organization by accepting an Amazon Macie membership invitation, use the Administrator Disassociation (p. 25) resource instead of this resource to disassociate your Macie account from its Macie administrator account. To learn more about disassociating your account from its administrator account, see Managing your membership in an invitation-based organization in the Amazon Macie User Guide.

URI

/master/disassociate

HTTP methods

POST

Operation ID: DisassociateFromMasterAccount

(Deprecated) Disassociates a member account from its Amazon Macie administrator account. This operation has been replaced by the DisassociateFromAdministratorAccount (p. 26) operation.

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 377)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 377)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 377)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 377)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 377)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 377)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 377)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
</tbody>
</table>
### Schemas

#### Response bodies

**Empty Schema schema**

```json
{}
```

**ValidationException schema**

```json
{
"message": "string"
}
```

**ServiceQuotaExceeded ApplicationException schema**

```json
{
"message": "string"
}
```

**AccessDeniedException schema**

```json
{
"message": "string"
}
```

**ResourceNotFoundException schema**

```json
{
"message": "string"
}
```

**ConflictException schema**

```json
{
"message": "string"
}
```

**ThrottlingException schema**

```json
{
"message": "string"
}
```
InternalServerException schema

```
{
  "message": "string"
}
```

**Properties**

**AccessDeniedException**
Provides information about an error that occurred due to insufficient access to a specified resource.

**message**
The explanation of the error that occurred.

  *Type: string*
  *Required: False*

**ConflictException**
Provides information about an error that occurred due to a versioning conflict for a specified resource.

**message**
The explanation of the error that occurred.

  *Type: string*
  *Required: False*

**Empty**
The request succeeded and there isn't any content to include in the body of the response (No Content).

**InternalServerException**
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**
The explanation of the error that occurred.

  *Type: string*
  *Required: False*

**ResourceNotFoundException**
Provides information about an error that occurred because a specified resource wasn't found.

**message**
The explanation of the error that occurred.

  *Type: string*
**Required**: False

**ServiceQuotaExceededException**
Provides information about an error that occurred due to one or more service quotas for an account.

**message**
The explanation of the error that occurred.

**Type**: string
**Required**: False

**ThrottlingException**
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**
The explanation of the error that occurred.

**Type**: string
**Required**: False

**ValidationException**
Provides information about an error that occurred due to a syntax error in a request.

**message**
The explanation of the error that occurred.

**Type**: string
**Required**: False

**See also**
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**DisassociateFromMasterAccount**
- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)
Member

The Member resource provides information about an individual account that's currently associated with your Amazon Macie account, typically a Macie administrator account. This information includes details such as the AWS account ID for the account and the current status of the relationship between your accounts. If you sent a Macie membership invitation to an account, this resource also indicates when you sent that invitation and the email address that you sent it to. For information about the relationship between administrator and member accounts, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

You can use the Member resource to retrieve information about an account that's associated with your Macie account. You can also use this resource to delete an existing association between your Macie account and another account. To use this resource, you have to specify the AWS account ID for the account that your request applies to. To find this ID, you can use the Members resource.

URI

/members/id

HTTP methods

DELETE

Operation ID: DeleteMember

Deletes the association between an Amazon Macie administrator account and an account.

Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 382)</td>
<td>The request succeeded. The association was deleted and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 382)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>Status code</td>
<td>Response model</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 382)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 383)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 383)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 383)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 383)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**GET**

**Operation ID:** GetMember

Retrieves information about an account that's associated with an Amazon Macie administrator account.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetMemberResponse (p. 382)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 383)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 383)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 383)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
</tbody>
</table>
## Status code

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>409</td>
<td>ConflictException (p. 383)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 383)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 383)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

## Schemas

### Response bodies

#### Empty Schema schema

```json
{
}
```

#### GetMemberResponse schema

```json
{
    "accountId": "string",
    "administratorAccountId": "string",
    "arn": "string",
    "email": "string",
    "invitedAt": "string",
    "masterAccountId": "string",
    "relationshipStatus": enum,
    "tags": {
    },
    "updatedAt": "string"
}
```

#### ValidationException schema

```json
{
    "message": "string"
}
```

#### ServiceQuotaExceededException schema

```json
{
    "message": "string"
}
```

#### AccessDeniedException schema

```json
{
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string

Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

**Empty**

The request succeeded and there isn't any content to include in the body of the response (No Content).

**GetMemberResponse**

Provides information about an account that's associated with an Amazon Macie administrator account.

**accountId**

The AWS account ID for the account.

*Type:* string

*Required:* False

**administratorAccountId**

The AWS account ID for the administrator account.

*Type:* string

*Required:* False

**arn**

The Amazon Resource Name (ARN) of the account.

*Type:* string

*Required:* False

**email**

The email address for the account. This value is null if the account is associated with the administrator account through AWS Organizations.

*Type:* string

*Required:* False

**invitedAt**

The date and time, in UTC and extended ISO 8601 format, when an Amazon Macie membership invitation was last sent to the account. This value is null if a Macie membership invitation hasn't been sent to the account.

*Type:* string

*Required:* False

*Format:* date-time

**masterAccountId**

(Deprecated) The AWS account ID for the administrator account. This property has been replaced by the administratorAccountId property and is retained only for backward compatibility.
Properties

**Type**: string  
**Required**: False

**relationshipStatus**

The current status of the relationship between the account and the administrator account.

**Type**: RelationshipStatus (p. 385)  
**Required**: False

**tags**

A map of key-value pairs that specifies which tags (keys and values) are associated with the account in Amazon Macie.

**Type**: TagMap (p. 386)  
**Required**: False

**updatedAt**

The date and time, in UTC and extended ISO 8601 format, of the most recent change to the status of the relationship between the account and the administrator account.

**Type**: string  
**Required**: False  
**Format**: date-time

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

**RelationshipStatus**

The current status of the relationship between an account and an associated Amazon Macie administrator account. Possible values are:

Enabled  
Paused  
Invited  
Created  
Removed  
Resigned  
EmailVerificationInProgress  
EmailVerificationFailed  
RegionDisabled
AccountSuspended

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

  Type: string
  Required: False

ServiceQuotaExceedededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

  Type: string
  Required: False

TagMap
A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

key-value pairs

  Type: string

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

  Type: string
  Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

  Type: string
Member Disassociation

The Member Disassociation resource provides access to associations between an Amazon Macie administrator account and its member accounts. If you're a Macie administrator, you can use this resource to disassociate a member account from your account. For information about managing relationships between administrator and member accounts, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

To use this resource, you have to specify the AWS account ID for the member account to disassociate. To find this ID, you can use the Members (p. 396) resource.

If you have a member account and you want to disassociate your account from its Macie administrator account, use the Administrator Disassociation (p. 25) resource.

URI

/members/disassociate/id
HTTP methods

POST

Operation ID: DisassociateMember

Disassociates an Amazon Macie administrator account from a member account.

Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Response bodies
Empty Schema schema

```json
{
}
```

ValidationException schema

```json
{
   "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
   "message": "string"
}
```

AccessDeniedException schema

```json
{
   "message": "string"
}
```

ResourceNotFoundException schema

```json
{
   "message": "string"
}
```

ConflictException schema

```json
{
   "message": "string"
}
```

ThrottlingException schema

```json
{
   "message": "string"
}
```

InternalServerErrorException schema

```json
{
   "message": "string"
}
```
Properties

AccessDeniedException
Provides information about an error that occurred due to insufficient access to a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

ConflictException
Provides information about an error that occurred due to a versioning conflict for a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

Empty
The request succeeded and there isn't any content to include in the body of the response (No Content).

InternalServerErrorException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.
message
The explanation of the error that occurred.

Type: string
Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

Type: string
Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

Type: string
Required: False

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

DisassociateMember
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Member Status
The Member Status resource provides access to the status of Amazon Macie for a member account in an organization. If you’re the delegated Macie administrator for an organization in AWS Organizations, you
can use this resource to manage the status of Macie for a member account in your organization. For more information, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.

If you suspend Macie for an account, Macie stops performing all activities and cancels all classification jobs for that account. However, the service retains the session identifier, settings, and resources for the account. If you later re-enable Macie for the account, Macie resumes all activities for the account. For more information, see Suspending or disabling Amazon Macie in the Amazon Macie User Guide.

**URI**

/macie/members/*id*

**HTTP methods**

**PATCH**

*Operation ID*: UpdateMemberSession

Enables an Amazon Macie administrator to suspend or re-enable Macie for a member account.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td><em>Empty Schema</em> (p. 393)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td><em>ValidationException</em> (p. 393)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td><em>ServiceQuotaExceededException</em> (p. 393)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td><em>AccessDeniedException</em> (p. 393)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td><em>ResourceNotFoundException</em> (p. 393)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td><em>ConflictException</em> (p. 394)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
</tbody>
</table>
**Schemas**

### Request bodies

**PATCH schema**

```json
{
  "status": enum
}
```

### Response bodies

**Empty Schema schema**

```json
{}
```

**ValidationException schema**

```json
{
  "message": "string"
}
```

**ServiceQuotaExceededSchema schema**

```json
{
  "message": "string"
}
```

**AccessDeniedException schema**

```json
{
  "message": "string"
}
```

**ResourceNotFoundException schema**

```json
{}
```
Properties

AccessDeniedException
Provides information about an error that occurred due to insufficient access to a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

ConflictException
Provides information about an error that occurred due to a versioning conflict for a specified resource.

message
The explanation of the error that occurred.

Type: string
Required: False

Empty
The request succeeded and there isn't any content to include in the body of the response (No Content).
InternalServerException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

MacieStatus
The status of an Amazon Macie account. Valid values are:

PAUSED
ENABLED

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

Type: string
Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

Type: string
Required: False
UpdateMemberSessionRequest

Suspends (pauses) or re-enables Amazon Macie for a member account.

status

Specifies the new status for the account. Valid values are: ENABLED, resume all Amazon Macie activities for the account; and, PAUSED, suspend all Macie activities for the account.

Type: MacieStatus (p. 395)
Required: True

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

UpdateMemberSession

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Members

The Members resource provides information about all the accounts that are currently associated with your Amazon Macie account, typically a Macie administrator account. For each account, this resource provides details such as the AWS account ID for the account and the current status of the relationship between your accounts. If you sent a Macie membership invitation to an account, this resource also indicates when you sent that invitation and the email address that you sent it to. For information about the relationship between administrator and member accounts, see Managing multiple Amazon Macie accounts in the Amazon Macie User Guide.
The Members resource also enables you to associate additional accounts with your Macie account. You can then invite those accounts to enable Macie and allow you to administer and manage Macie on their behalf. For more information, see Managing Amazon Macie accounts by invitation in the Amazon Macie User Guide.

You can use the Members resource to associate one or more accounts with your Macie account. You can also use this resource to retrieve information about the accounts that are currently associated with your Macie account.

**URI**

`/members`

**HTTP methods**

**GET**

**Operation ID:** ListMembers

Retrieves information about the accounts that are associated with an Amazon Macie administrator account.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>onlyAssociated</td>
<td>String</td>
<td>False</td>
<td>Specifies which accounts to include in the response, based on the status of an account's relationship with the administrator account. By default, the response includes only current member accounts. To include all accounts, set this value to false.</td>
</tr>
<tr>
<td>nextPageToken</td>
<td>String</td>
<td>False</td>
<td>The nextPageToken string that specifies which page of results to return in a paginated response.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>The maximum number of items to include in each page of a paginated response.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListMembersResponse (p. 397)</td>
<td>The request succeeded.</td>
</tr>
</tbody>
</table>
### HTTP methods

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td><code>ValidationException (p. 400)</code></td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td><code>ServiceQuotaExceededException (p. 400)</code></td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td><code>AccessDeniedException (p. 400)</code></td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td><code>ResourceNotFoundException (p. 400)</code></td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td><code>ConflictException (p. 400)</code></td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td><code>ThrottlingException (p. 400)</code></td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td><code>InternalServerException (p. 400)</code></td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### POST

**Operation ID:** CreateMember

Associates an account with an Amazon Macie administrator account.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td><code>CreateMemberResponse (p. 399)</code></td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td><code>ValidationException (p. 400)</code></td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td><code>ServiceQuotaExceededException (p. 400)</code></td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td><code>AccessDeniedException (p. 400)</code></td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td><code>ResourceNotFoundException (p. 400)</code></td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
</tbody>
</table>
### Status code

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>409</td>
<td>ConflictException (p. 400)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 400)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 400)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**POST schema**

```json
{
  "account": {
    "accountId": "string",
    "email": "string"
  },
  "tags": {
  }
}
```

### Response bodies

**ListMembersResponse schema**

```json
{
  "members": [
    {
      "accountId": "string",
      "administratorAccountId": "string",
      "arn": "string",
      "email": "string",
      "invitedAt": "string",
      "masterAccountId": "string",
      "relationshipStatus": enum,
      "tags": {
      },
      "updatedAt": "string"
    },
    "nextToken": "string"
  ]
}
```

**CreateMemberResponse schema**

```json
{
  "arn": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.
message

The explanation of the error that occurred.

    Type: string
    Required: False

AccountDetail

Specifies the details of an account to associate with an Amazon Macie administrator account.

accountld

The AWS account ID for the account.

    Type: string
    Required: True

e-mail

The email address for the account.

    Type: string
    Required: True

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

    Type: string
    Required: False

CreateMemberRequest

Specifies an AWS account to associate with an Amazon Macie administrator account.

account

The details of the account to associate with the administrator account.

    Type: AccountDetail (p. 401)
    Required: True

tags

A map of key-value pairs that specifies the tags to associate with the account in Amazon Macie.

An account can have a maximum of 50 tags. Each tag consists of a tag key and an associated tag value. The maximum length of a tag key is 128 characters. The maximum length of a tag value is 256 characters.
CreateMemberResponse

Provides information about a request to associate an account with an Amazon Macie administrator account.

arn

The Amazon Resource Name (ARN) of the account that was associated with the administrator account.

Type: string
Required: False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ListMembersResponse

Provides information about the accounts that are associated with an Amazon Macie administrator account.

members

An array of objects, one for each account that's associated with the administrator account and matches the criteria specified in the request.

Type: Array of type Member
Required: False

nextToken

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

Member

Provides information about an account that's associated with an Amazon Macie administrator account.
account

The AWS account ID for the account.

Type: string
Required: False

administratorAccountId

The AWS account ID for the administrator account.

Type: string
Required: False

arn

The Amazon Resource Name (ARN) of the account.

Type: string
Required: False

email

The email address for the account. This value is null if the account is associated with the administrator account through AWS Organizations.

Type: string
Required: False

invitedAt

The date and time, in UTC and extended ISO 8601 format, when an Amazon Macie membership invitation was last sent to the account. This value is null if a Macie membership invitation hasn't been sent to the account.

Type: string
Required: False
Format: date-time

masterAccountId

(Deprecated) The AWS account ID for the administrator account. This property has been replaced by the administratorAccountId property and is retained only for backward compatibility.

Type: string
Required: False

relationshipStatus

The current status of the relationship between the account and the administrator account.

Type: RelationshipStatus (p. 404)
Required: False
**tags**

A map of key-value pairs that specifies which tags (keys and values) are associated with the account in Amazon Macie.

**Type:** TagMap (p. 405)

**Required:** False

**updatedAt**

The date and time, in UTC and extended ISO 8601 format, of the most recent change to the status of the relationship between the account and the administrator account.

**Type:** string

**Required:** False

**Format:** date-time

**RelationshipStatus**

The current status of the relationship between an account and an associated Amazon Macie administrator account. Possible values are:

- Enabled
- Paused
- Invited
- Created
- Removed
- Resigned
- EmailVerificationInProgress
- EmailVerificationFailed
- RegionDisabled
- AccountSuspended

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

**message**

The explanation of the error that occurred.

**Type:** string

**Required:** False

**ServiceQuotaExceededException**

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

**Type:** string
Required: False

TagMap

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

key-value pairs

Type: string

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

Type: string

Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string

Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

ListMembers

AWS Command Line Interface
AWS SDK for .NET
AWS SDK for C++
AWS SDK for Go
AWS SDK for Java V2
AWS SDK for JavaScript V3
AWS SDK for PHP V3
AWS SDK for Python
AWS SDK for Ruby V3
Resource Sensitivity Profile

The Resource Sensitivity Profile resource provides statistical data for sensitive data discovery metrics that apply to individual Amazon Simple Storage Service (Amazon S3) buckets for your account. For each S3 bucket, this includes key metrics such as:

- The number of objects that Amazon Macie has analyzed.
- The number of objects that Macie has found sensitive data in.
- The number of occurrences of sensitive data that Macie has found.

The data captures the results of automated sensitive data discovery activities that Macie has performed for an S3 bucket. For more information, see Performing automated sensitive data discovery in the Amazon Macie User Guide.

This resource also provides access to the sensitivity score for individual S3 buckets. By default, Macie calculates this score based on the intersection of two primary dimensions: the amount of data that Macie has analyzed in a bucket, and the amount of sensitive data that Macie has found in a bucket. You can optionally override the calculated score and assign the maximum score (100) to a bucket, which also applies the Sensitive label to the bucket. If you assign the maximum score, Macie continues to perform automated sensitive data discovery for the bucket. However, later analyses don't affect the bucket's score.

You can use the Resource Sensitivity Profile resource to retrieve (query) statistical data for sensitive data discovery metrics that apply to an S3 bucket. You can also use this resource to retrieve and optionally change the sensitivity score for a bucket. To use this resource, automated sensitive data discovery must be enabled for your Macie account. To enable automated sensitive data discovery for your account, use the Automated Sensitive Data Discovery Configuration (p. 67) resource.

**URI**

/resource-profiles

**HTTP methods**

**GET**

**Operation ID:** GetResourceProfile
Retrieves (queries) sensitive data discovery statistics and the sensitivity score for an S3 bucket.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the S3 bucket that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetResourceProfileResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 409)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 409)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 409)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 409)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**PATCH**

**Operation ID:** UpdateResourceProfile

Updates the sensitivity score for an S3 bucket.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the S3 bucket that the request applies to.</td>
</tr>
</tbody>
</table>
Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 409)</td>
<td>The request succeeded. The S3 bucket's sensitivity score was updated and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 409)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 409)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 409)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 409)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 409)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 409)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

PATCH schema

```json
{
  "sensitivityScoreOverride": integer
}
```

Response bodies

GetResourceProfileResponse schema

```json
[
  "profileUpdatedAt": "string",
  "sensitivityScore": integer,
  "sensitivityScoreOverridden": boolean,
  "statistics": {
    "totalBytesClassified": integer,
    "totalDetections": integer,
  }
]```
"totalDetectionsSuppressed": integer,
"totalItemsClassified": integer,
"totalItemsSensitive": integer,
"totalItemsSkipped": integer,
"totalItemsSkippedInvalidEncryption": integer,
"totalItemsSkippedInvalidKms": integer,
"totalItemsSkippedPermissionDenied": integer
}
}

Empty Schema schema

{}

ValidationException schema

{
  "message": "string"
}

ServiceQuotaExceededException schema

{
  "message": "string"
}

AccessDeniedException schema

{
  "message": "string"
}

ResourceNotFoundException schema

{
  "message": "string"
}

ThrottlingException schema

{
  "message": "string"
}

InternalServerException schema

{
  "message": "string"}
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

Empty

The request succeeded and there isn't any content to include in the body of the response (No Content).

GetResourceProfileResponse

Provides the results of a query that retrieved sensitive data discovery statistics and the sensitivity score for an S3 bucket that Amazon Macie monitors and analyzes for your account. This data is available only if automated sensitive data discovery is currently enabled for your account.

profileUpdatedAt

The date and time, in UTC and extended ISO 8601 format, when Amazon Macie most recently recalculated sensitive data discovery statistics and details for the bucket. If the bucket's sensitivity score is calculated automatically, this includes the score.

Type: string
Required: True
Format: date-time

sensitivityScore

The current sensitivity score for the bucket, ranging from -1 (classification error) to 100 (sensitive). By default, this score is calculated automatically based on the amount of data that Amazon Macie has analyzed in the bucket and the amount of sensitive data that Macie has found in the bucket.

Type: integer
Required: True
Format: int32

sensitivityScoreOverridden

Specifies whether the bucket's current sensitivity score was set manually. If this value is true, the score was manually changed to 100. If this value is false, the score was calculated automatically by Amazon Macie.

Type: boolean
Required: False
**statistics**

The sensitive data discovery statistics for the bucket. The statistics capture the results of automated sensitive data discovery activities that Amazon Macie has performed for the bucket.

- **Type**: `ResourceStatistics (p. 411)`
- **Required**: True

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

- **message**
  - **Type**: string
  - **Required**: False

**ResourceNotFoundException**

Provides information about an error that occurred because a specified resource wasn't found.

- **message**
  - **Type**: string
  - **Required**: False

**ResourceStatistics**

Provides statistical data for sensitive data discovery metrics that apply to an S3 bucket that Amazon Macie monitors and analyzes for your account. The statistics capture the results of automated sensitive data discovery activities that Macie has performed for the bucket. The data is available only if automated sensitive data discovery is currently enabled for your account.

- **totalBytesClassified**
  - **Type**: integer
  - **Required**: False
  - **Format**: int64

- **totalDetections**
  - **Type**: integer
  - **Required**: False
  - **Format**: int64

- **totalDetectionsSuppressed**
  - **Type**: integer
  - **Required**: False
  - **Format**: int64
totalDetectionsSuppressed
The total number of occurrences of sensitive data that are currently suppressed by the sensitivity scoring settings for the bucket. These represent occurrences of sensitive data that Amazon Macie found in the bucket's objects, but the occurrences were manually suppressed. By default, suppressed occurrences are excluded from the bucket's sensitivity score.

Type: integer
Required: False
Format: int64

totalItemsClassified
The total number of objects that Amazon Macie has analyzed in the bucket.

Type: integer
Required: False
Format: int64

totalItemsSensitive
The total number of the bucket's objects that Amazon Macie has found sensitive data in.

Type: integer
Required: False
Format: int64

totalItemsSkipped
The total number of objects that Amazon Macie wasn't able to analyze in the bucket due to an object-level issue or error. For example, an object is a malformed file. This value includes objects that Macie wasn't able to analyze for reasons reported by other statistics in the ResourceStatistics object.

Type: integer
Required: False
Format: int64

totalItemsSkippedInvalidEncryption
The total number of objects that Amazon Macie wasn't able to analyze in the bucket because the objects are encrypted with a key that Macie can't access. The objects use server-side encryption with customer-provided keys (SSE-C).

Type: integer
Required: False
Format: int64

totalItemsSkippedInvalidKms
The total number of objects that Amazon Macie wasn't able to analyze in the bucket because the objects are encrypted with AWS KMS keys that were disabled, are scheduled for deletion, or were deleted.

Type: integer
Required: False
Format: int64
### totalItemsSkippedPermissionDenied

The total number of objects that Amazon Macie wasn't able to analyze in the bucket due to the permissions settings for the objects or the permissions settings for the keys that were used to encrypt the objects.

**Type:** integer  
**Required:** False  
**Format:** int64

### ServiceQuotaExceeded Exception

Provides information about an error that occurred due to one or more service quotas for an account.

**message**

The explanation of the error that occurred.

**Type:** string  
**Required:** False

### ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

**Type:** string  
**Required:** False

### UpdateResourceProfileRequest

Specifies a new sensitivity score for an S3 bucket that Amazon Macie monitors and analyzes for your account. To update the score, automated sensitive data discovery must currently be enabled for your account.

**sensitivityScoreOverride**

The new sensitivity score for the bucket. Valid values are: 100, assign the maximum score and apply the Sensitive label to the bucket; and, null (empty), assign a score that Amazon Macie calculates automatically after you submit the request.

**Type:** integer  
**Required:** False  
**Format:** int32

### ValidationException

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.
See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**GetResourceProfile**
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**UpdateResourceProfile**
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**Resource Sensitivity Profile - Artifacts**

The Resource Sensitivity Profile Artifacts resource provides information about the Amazon Simple Storage Service (Amazon S3) objects that Amazon Macie has selected and analyzed in individual S3 buckets for your account. For each S3 object, the information includes:

- The Amazon Resource Name (ARN) of the object.
- Whether Macie successfully completed its analysis of the object.
- Whether Macie found sensitive data in the object.

The information captures the results of automated sensitive data discovery activities that Macie has performed for an S3 bucket. For more information, see [Performing automated sensitive data discovery](https://docs.aws.amazon.com/macie/latest/APIReference/API_PerformAutomatedSensitiveDataDiscovery.html) in the Amazon Macie User Guide.

You can use the Resource Sensitivity Profile Artifacts resource to retrieve information about the objects that Macie has selected and analyzed for an S3 bucket, and the status and results of the analyses. To
use this resource, automated sensitive data discovery must be enabled for your account. To enable automated sensitive data discovery for your account, use the Automated Sensitive Data Discovery Configuration (p. 67) resource.

**URI**

/resource-profiles/artifacts

**HTTP methods**

**GET**

**Operation ID:** ListResourceProfileArtifacts

Retrieves information about objects that were selected from an S3 bucket for automated sensitive data discovery.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the S3 bucket that the request applies to.</td>
</tr>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to return in a paginated response.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td><strong>ListResourceProfileArtifacts</strong> (p. 416)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td><strong>ValidationException</strong> (p. 416)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td><strong>AccessDeniedException</strong> (p. 416)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td><strong>ResourceNotFoundException</strong> (p. 416)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td><strong>ThrottlingException</strong> (p. 416)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td><strong>InternalServerException</strong> (p. 416)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>
Schemas

Response bodies

ListResourceProfileArtifactsResponse schema

```json
{
   "artifacts": [
      {
         "arn": "string",
         "classificationResultStatus": "string",
         "sensitive": boolean
      }
   ],
   "nextToken": "string"
}
```

ValidationException schema

```json
{
   "message": "string"
}
```

AccessDeniedException schema

```json
{
   "message": "string"
}
```

ResourceNotFoundException schema

```json
{
   "message": "string"
}
```

ThrottlingException schema

```json
{
   "message": "string"
}
```

InternalServerException schema

```json
{
   "message": "string"
}
```

Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.
message
The explanation of the error that occurred.

Type: string
Required: False

InternalServerErrorException
Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message
The explanation of the error that occurred.

Type: string
Required: False

ListResourceProfileArtifactsResponse
Provides the results of a request for information about the S3 objects that Amazon Macie selected for analysis while performing automated sensitive data discovery for an S3 bucket. This information is available only if automated sensitive data discovery is currently enabled for your account.

artifacts
An array of objects, one for each of 1-100 S3 objects that Amazon Macie selected for analysis.

If Macie has analyzed more than 100 objects in the bucket, Macie populates the array based on the value for the ResourceProfileArtifact.sensitive field for an object: true (sensitive), followed by false (not sensitive). Macie then populates any remaining items in the array with information about objects where the value for the ResourceProfileArtifact.classificationResultStatus field is SKIPPED.

Type: Array of type ResourceProfileArtifact (p. 418)
Required: True

nextToken
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

Type: string
ResourceProfileArtifact

Provides information about an S3 object that Amazon Macie selected for analysis while performing automated sensitive data discovery for an S3 bucket, and the status and results of the analysis. This information is available only if automated sensitive data discovery is currently enabled for your account.

**arn**

The Amazon Resource Name (ARN) of the object.

Type: string

Required: True

**classificationResultStatus**

The status of the analysis. Possible values are:

- COMPLETE - Amazon Macie successfully completed its analysis of the object.
- PARTIAL - Macie analyzed only a subset of data in the object. For example, the object is an archive file that contains files in an unsupported format.
- SKIPPED - Macie wasn't able to analyze the object. For example, the object is a malformed file.

Type: string

Required: True

**sensitive**

Specifies whether Amazon Macie found sensitive data in the object.

Type: boolean

Required: False

ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

Type: string

Required: False

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.
Resource Sensitivity Profile - Detections

The Resource Sensitivity Profile Detections resource provides information about the types and amount of sensitive data that Amazon Macie has found in individual Amazon Simple Storage Service (Amazon S3) buckets for your account. For each S3 bucket, the information includes an inventory of the types of sensitive data that Macie has found and the number of occurrences of each type. It also includes details about the custom data identifier or managed data identifier that detected each type of sensitive data. The information captures the results of automated sensitive data discovery activities that Macie has performed for an S3 bucket. For more information, see Performing automated sensitive data discovery in the Amazon Macie User Guide.

This resource also provides access to the sensitivity scoring settings for individual S3 buckets. By default, Macie calculates a bucket's sensitivity score based partly on the amount of sensitive data that Macie has found in a bucket. You can optionally adjust these calculations by excluding (suppressing) or including specific types of sensitive data in a bucket's score.

You can use the Resource Sensitivity Profile Detections resource to retrieve information about the types and amount of sensitive data that Macie has found in an S3 bucket. You can also use this resource to adjust the sensitivity scoring settings for a bucket. To use this resource, automated sensitive data discovery must be enabled for your account. To enable automated sensitive data discovery for your account, use the Automated Sensitive Data Discovery Configuration resource.

**URI**

/resource-profiles/detections

**HTTP methods**

GET

**Operation ID:** ListResourceProfileDetections
Retrieves information about the types and amount of sensitive data that Amazon Macie found in an S3 bucket.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the S3 bucket that the request applies to.</td>
</tr>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to return in a paginated response.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>The maximum number of items to include in each page of a paginated response.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListResourceProfileDetectionsResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**PATCH**

**Operation ID:** UpdateResourceProfileDetections
Updates the sensitivity scoring settings for an S3 bucket.

**Query parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the S3 bucket that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 422)</td>
<td>The request succeeded. The settings were updated and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 422)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 422)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 422)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 422)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 423)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 423)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**Schemas**

**Request bodies**

**PATCH schema**

```json
{
    "suppressDataIdentifiers": [
        {
            "id": "string",
...}
```


Response bodies

ListResourceProfileDetectionsResponse schema

```json
{
    "detections": [
        {
            "arn": "string",
            "count": integer,
            "id": "string",
            "name": "string",
            "suppressed": boolean,
            "type": enum
        },
        {
            "nextToken": "string"
        }
    ]
}
```

Empty Schema schema

```json
{
}
```

ValidationException schema

```json
{
    "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
    "message": "string"
}
```

AccessDeniedException schema

```json
{
    "message": "string"
}
```

ResourceNotFoundException schema

```json
{
    "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

   Type: string
   Required: False

DataIdentifierType

The type of data identifier that detected a specific type of sensitive data in an S3 bucket. Possible values are:

   CUSTOM
   MANAGED

Detection

Provides information about a type of sensitive data that Amazon Macie found in an S3 bucket while performing automated sensitive data discovery for the bucket. The information also specifies the custom data identifier or managed data identifier that detected the data. This information is available only if automated sensitive data discovery is currently enabled for your account.

arn

If the sensitive data was detected by a custom data identifier, the Amazon Resource Name (ARN) of the custom data identifier that detected the data. Otherwise, this value is null.

   Type: string
   Required: False

count

The total number of occurrences of the sensitive data.
Properties

**id**

The unique identifier for the custom data identifier or managed data identifier that detected the sensitive data. For additional details about a specified managed data identifier, see [Using managed data identifiers](https://docs.aws.amazon.com/macie/latest/userguide/macie-api-management-identify.html) in the *Amazon Macie User Guide*.

*Type: string*
*Required: False*

**name**

The name of the custom data identifier or managed data identifier that detected the sensitive data. For a managed data identifier, this value is the same as the unique identifier (`id`).

*Type: string*
*Required: False*

**suppressed**

Specifies whether occurrences of this type of sensitive data are excluded (`true`) or included (`false`) in the bucket's sensitivity score.

*Type: boolean*
*Required: False*

**type**

The type of data identifier that detected the sensitive data. Possible values are: CUSTOM, for a custom data identifier; and, MANAGED, for a managed data identifier.

*Type: DataIdentifierType (p. 423)*
*Required: False*

---

**Empty**

The request succeeded and there isn't any content to include in the body of the response (No Content).

**InternalServerErrorException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

**message**

The explanation of the error that occurred.

*Type: string*
*Required: False*
ListResourceProfileDetectionsResponse

Provides the results of a request for information about the types and amount of sensitive data that Amazon Macie found in an S3 bucket while performing automated sensitive data discovery for the bucket. This information is available only if automated sensitive data discovery is currently enabled for your account.

detections

An array of objects, one for each type of sensitive data that Amazon Macie found in the bucket. Each object reports the number of occurrences of the specified type and provides information about the custom data identifier or managed data identifier that detected the data.

Type: Array of type Detection (p. 423)
Required: True

nextToken

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

Type: string
Required: False

ServiceQuotaExceededException

Provides information about an error that occurred due to one or more service quotas for an account.

message

The explanation of the error that occurred.

Type: string
Required: False

SuppressDataIdentifier

Specifies a custom data identifier or managed data identifier that detected a type of sensitive data to start excluding or including in an S3 bucket's sensitivity score.

id

The unique identifier for the custom data identifier or managed data identifier that detected the type of sensitive data to exclude or include in the score.
**Type**: string  
**Required**: False

**type**

The type of data identifier that detected the sensitive data. Possible values are: CUSTOM, for a custom data identifier; and, MANAGED, for a managed data identifier.

**Type**: DataIdentifierType (p. 423)  
**Required**: False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

**UpdateResourceProfileDetectionsRequest**

Updates the sensitivity scoring settings for an S3 bucket that Amazon Macie monitors and analyzes for your account. The settings specify whether to exclude or include occurrences of specific types of sensitive data in calculations of the bucket's sensitivity score. You can update the settings only if automated sensitive data discovery is currently enabled for your account.

**suppressDataIdentifiers**

An array of objects, one for each custom data identifier or managed data identifier that detected the type of sensitive data to start excluding or including in the bucket's score. To start including all sensitive data types in the score, don't specify any values for this array.

**Type**: Array of type SuppressDataIdentifier (p. 425)  
**Required**: False

**ValidationException**

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

**See also**

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:
Sensitivity Inspection Template

The Sensitivity Inspection Template resource provides access to the sensitivity inspection template for your Amazon Macie account. The template stores the collection of settings that specify which allow lists, custom data identifiers, and managed data identifiers you want Macie to use when performing automated sensitive data discovery for your account. For more information, see Performing automated sensitive data discovery in the Amazon Macie User Guide.

The first time you enable automated sensitive data discovery for your account, Macie automatically creates the sensitivity inspection template for your account. Macie then uses the settings specified by the template to determine whether to use (include) or not use (exclude) individual allow lists, custom data identifiers, and managed data identifiers when it analyzes data.

By default, Macie analyzes data by using only the set of managed data identifiers that we recommend for automated sensitive data discovery. For a list of these identifiers, see Default settings for automated sensitive data discovery in the Amazon Macie User Guide. To customize the analyses, update the template settings for your account. You can include allow lists and custom data identifiers that you've defined, and exclude or include specific managed data identifiers that Macie provides. You can use allow lists in all the AWS Regions where Macie is currently available except the Asia Pacific (Osaka) Region.

You can use the Sensitivity Inspection Template resource to retrieve or update the template settings for your account. To use this resource, automated sensitive data discovery must be enabled for your account. To enable automated sensitive data discovery for your account, use the Automated Sensitive Data Discovery Configuration (p. 67) resource. When you use this resource, you have to specify the unique
identifier for the template. To obtain this identifier, use the Sensitivity Inspection Templates (p. 435) resource.

**URI**

/templates/sensitivity-inspections/id

**HTTP methods**

**GET**

**Operation ID:** GetSensitivityInspectionTemplate

Retrieves the settings for the sensitivity inspection template for an account.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetSensitivityInspectionTemplate (p. 430)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 430)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 430)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 430)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 431)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException (p. 431)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

**PUT**

**Operation ID:** UpdateSensitivityInspectionTemplate

Updates the settings for the sensitivity inspection template for an account.
Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>The unique identifier for the Amazon Macie resource that the request applies to.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Empty Schema (p. 430)</td>
<td>The request succeeded. The template's settings were updated and there isn't any content to include in the body of the response (No Content).</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 430)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 430)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 430)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 431)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException (p. 431)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Request bodies

PUT schema

```json
{
    "description": "string",
    "excludes": {
        "managedDataIdentifierIds": [
            "string"
        ]
    },
    "includes": {
        "allowListIds": [
            "string"
        ],
        "customDataIdentifierIds": [
```
Schemas

"string",
"managedDataIdentifierIds": [
"string"
]
}

Response bodies

GetSensitivityInspectionTemplateResponse schema

{
"description": "string",
"excludes": {
"managedDataIdentifierIds": [
"string"
]
},
"includes": {
"allowListIds": [
"string"
],
"customDataIdentifierIds": [
"string"
],
"managedDataIdentifierIds": [
"string"
]
},
"name": "string",
"sensitivityInspectionTemplateId": "string"
}

Empty Schema schema

[
]

ValidationException schema

{
"message": "string"
}

AccessDeniedException schema

{
"message": "string"
}

ResourceNotFoundException schema

{
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

Empty

The request succeeded and there isn’t any content to include in the body of the response (No Content).

GetSensitivityInspectionTemplateResponse

Provides information about the settings for the sensitivity inspection template for an Amazon Macie account. Macie uses the template's settings when it performs automated sensitive data discovery for the account.

description

The custom description of the template.

Type: string
Required: False

excludes

The managed data identifiers that are explicitly excluded (not used) when analyzing data.

Type: SensitivityInspectionTemplateExcludes (p. 432)
Required: False
includes

The allow lists, custom data identifiers, and managed data identifiers that are explicitly included (used) when analyzing data.

- **Type:** SensitivityInspectionTemplateIncludes (p. 433)
- **Required:** False

name

The name of the template: automated-sensitive-data-discovery.

- **Type:** string
- **Required:** True

sensitivityInspectionTemplateId

The unique identifier for the template.

- **Type:** string
- **Required:** True

InternalServerError

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.

message

The explanation of the error that occurred.

- **Type:** string
- **Required:** False

SensitivityInspectionTemplateExcludes

Specifies managed data identifiers to exclude (not use) when performing automated sensitive data discovery for an Amazon Macie account. For information about the managed data identifiers that Amazon Macie currently provides, see Using managed data identifiers in the Amazon Macie User Guide.

managedDataIdentifierIds

An array of unique identifiers, one for each managed data identifier to exclude. To retrieve a list of valid values, use the ListManagedDataIdentifiers operation.
Properties

**SensitivityInspectionTemplateIncludes**

Specifies the allow lists, custom data identifiers, and managed data identifiers to include (use) when performing automated sensitive data discovery for an Amazon Macie account. The configuration must specify at least one custom data identifier or managed data identifier. For information about the managed data identifiers that Amazon Macie currently provides, see [Using managed data identifiers](#) in the Amazon Macie User Guide.

- **allowListIds**
  An array of unique identifiers, one for each allow list to include.

  - **Type**: Array of type string
  - **Required**: False

- **customDataIdentifierIds**
  An array of unique identifiers, one for each custom data identifier to include.

  - **Type**: Array of type string
  - **Required**: False

- **managedDataIdentifierIds**
  An array of unique identifiers, one for each managed data identifier to include.

  Amazon Macie uses these managed data identifiers in addition to managed data identifiers that are subsequently released and recommended for automated sensitive data discovery. To retrieve a list of valid values for the managed data identifiers that are currently available, use the `ListManagedDataIdentifiers` operation.

  - **Type**: Array of type string
  - **Required**: False

**ThrottlingException**

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

- **message**
  The explanation of the error that occurred.

  - **Type**: string
  - **Required**: False

**UpdateSensitivityInspectionTemplateRequest**

 Specifies settings for the sensitivity inspection template for an Amazon Macie account. Macie uses the template's settings when it performs automated sensitive data discovery for the account. To update the settings, automated sensitive data discovery must currently be enabled for the account.
description
A custom description of the template. The description can contain as many as 200 characters.

Type: string
Required: False

excludes
The managed data identifiers to explicitly exclude (not use) when analyzing data.

To exclude an allow list or custom data identifier that's currently included by the template, update the values for the SensitivityInspectionTemplateIncludes.allowListIds and SensitivityInspectionTemplateIncludes.customDataIdentifierIds properties, respectively.

Type: SensitivityInspectionTemplateExcludes (p. 432)
Required: False

includes
The allow lists, custom data identifiers, and managed data identifiers to explicitly include (use) when analyzing data.

Type: SensitivityInspectionTemplateIncludes (p. 433)
Required: False

ValidationException
Provides information about an error that occurred due to a syntax error in a request.

message
The explanation of the error that occurred.

Type: string
Required: False

See also
For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetSensitivityInspectionTemplate

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateSensitivityInspectionTemplate

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Sensitivity Inspection Templates

The Sensitivity Inspection Templates resource provides a subset of information about the sensitivity inspection template for your Amazon Macie account. This template stores the collection of settings that specify which allow lists, custom data identifiers, and managed data identifiers you want Macie to use when performing automated sensitive data discovery for your account. The first time you enable automated sensitive data discovery for your account, Macie automatically creates the template for your account.

You can use this resource to retrieve the unique identifier and name of the template that Macie created for your account. You can then use the unique identifier to retrieve or update the template’s settings by using the Sensitivity Inspection Template (p. 427) resource. To use this resource, automated sensitive data discovery must be enabled for your account. To enable automated sensitive data discovery for your account, use the Automated Sensitive Data Discovery Configuration (p. 67) resource.

URI

/templates/sensitivity-inspections

HTTP methods

GET

Operation ID: ListSensitivityInspectionTemplates

Retrieves a subset of information about the sensitivity inspection template for an account.

Query parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>The nextToken string that specifies which page of results to return in a paginated response.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>The maximum number of items to include in each page of a paginated response.</td>
</tr>
</tbody>
</table>
Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListSensitivityInspectionTemplatesResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 436)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 437)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 437)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 437)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Response bodies

ListSensitivityInspectionTemplatesResponse schema

```json
{
   "nextToken": "string",
   "sensitivityInspectionTemplates": [
   {
      "id": "string",
      "name": "string"
   }
]
}
```

ValidationException schema

```json
{
   "message": "string"
}
```

ServiceQuotaExceededException schema

```json
{
   "message": "string"
}
```
AccessDeniedException schema

```json
{
  "message": "string"
}
```

ThrottlingException schema

```json
{
  "message": "string"
}
```

InternalServerException schema

```json
{
  "message": "string"
}
```

**Properties**

**AccessDeniedException**

Provides information about an error that occurred due to insufficient access to a specified resource.

- **message**
  
  The explanation of the error that occurred.

  - **Type**: string
  - **Required**: False

**InternalServerException**

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

- **message**
  
  The explanation of the error that occurred.

  - **Type**: string
  - **Required**: False

**ListSensitivityInspectionTemplatesResponse**

Provides the results of a request for information about the sensitivity inspection template for an Amazon Macie account. Macie uses the template's settings when it performs automated sensitive data discovery for the account.
nextToken
The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

  Type: string
  Required: False

sensitivityInspectionTemplates
An array that specifies the unique identifier and name of the sensitivity inspection template for the account.

  Type: Array of type SensitivityInspectionTemplatesEntry (p. 438)
  Required: False

SensitivityInspectionTemplatesEntry
Provides information about the sensitivity inspection template for an Amazon Macie account. Macie uses the template's settings when it performs automated sensitive data discovery for the account.

id
The unique identifier for the sensitivity inspection template.

  Type: string
  Required: False

name
The name of the sensitivity inspection template: automated-sensitive-data-discovery.

  Type: string
  Required: False

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

  Type: string
  Required: False

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.
**ValidationException**

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.

**See also**

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**ListSensitivityInspectionTemplates**

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

**Tags**

A tag is an optional label that you can define and associate with AWS resources, including certain types of Amazon Macie resources. Tags can help you identify, categorize, and manage resources in different ways, such as by purpose, owner, environment, or other criteria. For example, you can use tags to apply policies, allocate costs, distinguish between versions of resources, or identify resources that support certain compliance requirements.

You can associate tags with the following types of Macie resources:

- Allow lists
- Classification jobs
- Custom data identifiers
- Findings filters
- Member accounts

A resource can have as many as 50 tags. Each tag consists of a tag key and an associated tag value, both of which you define. A tag key is a general label that acts as a category for more specific tag values. A tag
value acts as a descriptor for a tag key. For more information, see Tagging Amazon Macie resources in the Amazon Macie User Guide.

You can use the Tags resource to add, retrieve, update, or remove tags from an allow list, classification job, custom data identifier, findings filter, or member account.

URI

/tags/resourceArn

HTTP methods

DELETE

Operation ID: UntagResource

Removes one or more tags (keys and values) from an Amazon Macie resource.

Path parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the resource.</td>
</tr>
</tbody>
</table>

Query parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tagKeys</td>
<td>String</td>
<td>True</td>
<td>One or more tags (keys) to remove from the resource. In an HTTP request to remove multiple tags, append the tagKeys parameter and argument for each tag to remove, separated by an ampersand (&amp;).</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>204</td>
<td>UntagResourceResponse (p. 442)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
</tbody>
</table>

GET

Operation ID: ListTagsForResource
Retrieves the tags (keys and values) that are associated with an Amazon Macie resource.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the resource.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ListTagsForResourceResponse</td>
<td>The request succeeded.</td>
</tr>
</tbody>
</table>

**POST**

**Operation ID: TagResource**

Adds or updates one or more tags (keys and values) that are associated with an Amazon Macie resource.

**Path parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceArn</td>
<td>String</td>
<td>True</td>
<td>The Amazon Resource Name (ARN) of the resource.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>204</td>
<td>TagResourceResponse (p. 442)</td>
<td>The request succeeded and there isn't any content to include in the body of the response (No Content).</td>
</tr>
</tbody>
</table>

**Schemas**

**Request bodies**

**POST schema**

```json
{
  "tags": {
  }
}
```

**Response bodies**
ListTagsForResourceResponse schema

```json
{
  "tags": {
  }
}
```

UntagResourceResponse schema

```json
{}
```

TagResourceResponse schema

```json
{}
```

Properties

**ListTagsForResourceResponse**

Provides information about the tags (keys and values) that are associated with an Amazon Macie resource.

**tags**

A map of key-value pairs that specifies which tags (keys and values) are associated with the resource.

Type: TagMap (p. 442)

Required: False

**TagMap**

A string-to-string map of key-value pairs that specifies the tags (keys and values) for an Amazon Macie resource.

**key-value pairs**

Type: string

**TagResourceRequest**

Specifies the tags (keys and values) to associate with an Amazon Macie resource.

**tags**

A map of key-value pairs that specifies the tags to associate with the resource.

A resource can have a maximum of 50 tags. Each tag consists of a tag key and an associated tag value. The maximum length of a tag key is 128 characters. The maximum length of a tag value is 256 characters.

Type: TagMap (p. 442)

Required: True
TagResourceResponse

The request succeeded. The specified tags were added or updated for the resource.

UntagResourceResponse

The request succeeded. The specified tags were removed from the resource.

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

UntagResource

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
Usage Statistics

The Usage Statistics resource provides information about current quotas and usage statistics for your Amazon Macie account. This includes metrics that report the estimated cost of using Macie to perform specific types of tasks, and current account quotas for those tasks. The data can help you track your use of the service and determine whether to adjust your quotas or use of the service. For information about how Macie calculates usage statistics and data for your account, see Forecasting and monitoring costs in the Amazon Macie User Guide.

If you're participating in a 30-day free trial, the applicable cost estimates are based on your use of Macie thus far during the trial. They can help you understand what your usage costs might be after the trial ends. This resource also provides information about when each trial started for your account.

You can use the Usage Statistics resource to retrieve (query) aggregated data for usage metrics that apply to your Macie account and the quotas that correspond to those metrics. To customize your query, you can use supported parameters to filter and sort the data. You can also specify a time range for the data. The time range can be the preceding 30 days or the current calendar month to date. If your account is the Macie administrator account for an organization, you can use this resource to get a breakdown of quota, usage, and free-trial data for individual member accounts in your organization.

**URI**

/usage/statistics

**HTTP methods**

**POST**

Operation ID: GetUsageStatistics

Retrieves (queries) quotas and aggregated usage data for one or more accounts.

**Responses**

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetUsageStatisticsResponse</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 446)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 446)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
</tbody>
</table>
### Status code

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>409</td>
<td>ConflictException (p. 446)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 446)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 446)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request bodies

**POST schema**

```json
{
  "filterBy": [
    {
      "comparator": enum,
      "key": enum,
      "values": [
        "string"
      ]
    },
  ],
  "maxResults": integer,
  "nextToken": "string",
  "sortBy": {
    "key": enum,
    "orderBy": enum
  },
  "timeRange": enum
}
```

#### Response bodies

**GetUsageStatisticsResponse schema**

```json
{
  "nextToken": "string",
  "records": [
    {
      "accountId": "string",
      "automatedDiscoveryFreeTrialStartDate": "string",
      "freeTrialStartDate": "string",
      "usage": {
        "currency": enum,
        "estimatedCost": "string",
        "serviceLimit": {
          "isServiceLimited": boolean,
          "unit": enum,
          "value": integer
        }
      }
    }
  ]
}
```
ValidationException schema

```
{
  "message": "string"
}
```

ServiceQuotaExceededException schema

```
{
  "message": "string"
}
```

AccessDeniedException schema

```
{
  "message": "string"
}
```

ResourceNotFoundException schema

```
{
  "message": "string"
}
```

ConflictException schema

```
{
  "message": "string"
}
```

ThrottlingException schema

```
{
  "message": "string"
}
```

InternalServerException schema

```
{
  "message": "string"
}
```
Properties

AccessDeniedException

Provides information about an error that occurred due to insufficient access to a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

Currency

The type of currency that the data for an Amazon Macie usage metric is reported in. Possible values are:

USD

GetUsageStatisticsRequest

Specifies criteria for filtering, sorting, and paginating the results of a query for quotas and aggregated usage data for one or more Amazon Macie accounts.

filterBy

An array of objects, one for each condition to use to filter the query results. If you specify more than one condition, Amazon Macie uses an AND operator to join the conditions.

Type: Array of type UsageStatisticsFilter (p. 451)
Required: False

maxResults

The maximum number of items to include in each page of the response.

Type: integer
Required: False
Format: int32

nextToken

The nextToken string that specifies which page of results to return in a paginated response.
Properties

**sortBy**

The criteria to use to sort the query results.

**Type:** UsageStatisticsSortBy (p. 452)

**Required:** False

**timeRange**

The inclusive time period to query usage data for. Valid values are: MONTH_TO_DATE, for the current calendar month to date; and, PAST_30_DAYS, for the preceding 30 days. If you don’t specify a value, Amazon Macie provides usage data for the preceding 30 days.

**Type:** TimeRange (p. 450)

**Required:** False

GetUsageStatisticsResponse

Provides the results of a query that retrieved quotas and aggregated usage data for one or more Amazon Macie accounts.

**nextToken**

The string to use in a subsequent request to get the next page of results in a paginated response. This value is null if there are no additional pages.

**Type:** string

**Required:** False

**records**

An array of objects that contains the results of the query. Each object contains the data for an account that matches the filter criteria specified in the request.

**Type:** Array of type UsageRecord (p. 451)

**Required:** False

**timeRange**

The inclusive time period that the usage data applies to. Possible values are: MONTH_TO_DATE, for the current calendar month to date; and, PAST_30_DAYS, for the preceding 30 days.

**Type:** TimeRange (p. 450)

**Required:** False

InternalServerException

Provides information about an error that occurred due to an unknown internal server error, exception, or failure.
message
The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException
Provides information about an error that occurred because a specified resource wasn't found.

message
The explanation of the error that occurred.

Type: string
Required: False

ServiceLimit
Specifies a current quota for an Amazon Macie account.

isServiceLimited
Specifies whether the account has met the quota that corresponds to the metric specified by the UsageByAccount.type field in the response.

Type: boolean
Required: False

unit
The unit of measurement for the value specified by the value field.

Type: string
Required: False
Values: TERABYTES

value
The value for the metric specified by the UsageByAccount.type field in the response.

Type: integer
Required: False
Format: int64

ServiceQuotaExceedededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

Type: string
Required: False
ThrottlingException

Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message

The explanation of the error that occurred.

  Type: string
  Required: False

TimeRange

An inclusive time period that Amazon Macie usage data applies to. Possible values are:

  MONTH_TO_DATE
  PAST_30_DAYS

UsageByAccount

Provides data for a specific usage metric and the corresponding quota for an Amazon Macie account.

currency

The type of currency that the value for the metric (estimatedCost) is reported in.

  Type: Currency (p. 447)
  Required: False

estimatedCost

The estimated value for the metric.

  Type: string
  Required: False

serviceLimit

The current value for the quota that corresponds to the metric specified by the type field.

  Type: ServiceLimit (p. 449)
  Required: False

type

The name of the metric. Possible values are: AUTOMATED_OBJECT_MONITORING, to monitor S3 objects for automated sensitive data discovery; AUTOMATED_SENSITIVE_DATA_DISCOVERY, to analyze S3 objects for automated sensitive data discovery; DATA_INVENTORY_EVALUATION, to monitor S3 buckets; and, SENSITIVE_DATA_DISCOVERY, to run classification jobs.

  Type: UsageType (p. 453)
  Required: False
UsageRecord

Provides quota and aggregated usage data for an Amazon Macie account.

**accountId**

The unique identifier for the AWS account that the data applies to.

- **Type:** string
- **Required:** False

**automatedDiscoveryFreeTrialStartDate**

The date and time, in UTC and extended ISO 8601 format, when the free trial of automated sensitive data discovery started for the account. If the account is a member account in an organization, this value is the same as the value for the organization's Amazon Macie administrator account.

- **Type:** string
- **Required:** False
- **Format:** date-time

**freeTrialStartDate**

The date and time, in UTC and extended ISO 8601 format, when the Amazon Macie free trial started for the account.

- **Type:** string
- **Required:** False
- **Format:** date-time

**usage**

An array of objects that contains usage data and quotas for the account. Each object contains the data for a specific usage metric and the corresponding quota.

- **Type:** Array of type [UsageByAccount](p. 450)
- **Required:** False

UsageStatisticsFilter

Specifies a condition for filtering the results of a query for quota and usage data for one or more Amazon Macie accounts.

**comparator**

The operator to use in the condition. If the value for the key property is accountId, this value must be CONTAINS. If the value for the key property is any other supported field, this value can be EQ, GT, GTE, LT, LTE, or NE.

- **Type:** UsageStatisticsFilterComparator (p. 452)
- **Required:** False

**key**

The field to use in the condition.
Type: UsageStatisticsFilterKey (p. 452)
Required: False

values
An array that lists values to use in the condition, based on the value for the field specified by the key property. If the value for the key property is accountId, this array can specify multiple values. Otherwise, this array can specify only one value.

Valid values for each supported field are:

- accountId - The unique identifier for an AWS account.
- freeTrialStartDate - The date and time, in UTC and extended ISO 8601 format, when the Amazon Macie free trial started for an account.
- serviceLimit - A Boolean (true or false) value that indicates whether an account has reached its monthly quota.
- total - A string that represents the current estimated cost for an account.

Type: Array of type string
Required: False

UsageStatisticsFilterComparator
The operator to use in a condition that filters the results of a query for Amazon Macie account quotas and usage data. Valid values are:

GT
GTE
LT
LTE
EQ
NE
CONTAINS

UsageStatisticsFilterKey
The field to use in a condition that filters the results of a query for Amazon Macie account quotas and usage data. Valid values are:

accountId
serviceLimit
freeTrialStartDate
total

UsageStatisticsSortBy
Specifies criteria for sorting the results of a query for Amazon Macie account quotas and usage data.

key
The field to sort the results by.

Type: UsageStatisticsSortKey (p. 453)
Required: False

orderBy

The sort order to apply to the results, based on the value for the field specified by the key property. Valid values are: ASC, sort the results in ascending order; and, DESC, sort the results in descending order.

Type: string
Required: False
Values: ASC | DESC

UsageStatisticsSortKey

The field to use to sort the results of a query for Amazon Macie account quotas and usage data. Valid values are:

accountId
total
serviceLimitValue
freeTrialStartDate

UsageType

The name of an Amazon Macie usage metric for an account. Possible values are:

DATA_INVENTORY_EVALUATION
SENSITIVE_DATA_DISCOVERY
AUTOMATED_SENSITIVE_DATA_DISCOVERY
AUTOMATED_OBJECT_MONITORING

ValidationException

Provides information about an error that occurred due to a syntax error in a request.

message

The explanation of the error that occurred.

Type: string
Required: False

See also

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

GetUsageStatistics

• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
Usage Totals

The Usage Totals resource provides aggregated usage data for your Amazon Macie account. The data can provide insight into the estimated cost of using Macie to monitor and analyze your Amazon Simple Storage Service (Amazon S3) data. If you're currently participating in a 30-day free trial, the applicable cost estimates can help you understand what your usage costs might be after the trial ends. For information about how Macie calculates this data for your account, see Forecasting and monitoring costs in the Amazon Macie User Guide.

You can use the Usage Totals resource to retrieve (query) aggregated usage data for your Macie account for the preceding 30 days or the current calendar month to date. If your account is the Macie administrator account for an organization, the data reports cumulative usage for all the accounts in your organization. To query additional usage-related data or build a custom query for a select set of accounts, use the Usage Statistics (p. 444) resource.

URI

/usage

HTTP methods

GET

Operation ID: GetUsageTotals

Retrieves (queries) aggregated usage data for an account.

Query parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>timeRange</td>
<td>String</td>
<td>False</td>
<td>The inclusive time period to retrieve the data for. Valid values are: MONTH_TO_DATE, for the current calendar month to date; and, PAST_30_DAYS, for the preceding 30 days. If you don't specify a value for this parameter, Amazon Macie provides aggregated usage data for the preceding 30 days.</td>
</tr>
</tbody>
</table>
Responses

<table>
<thead>
<tr>
<th>Status code</th>
<th>Response model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetUsageTotalsResponse (p. 455)</td>
<td>The request succeeded.</td>
</tr>
<tr>
<td>400</td>
<td>ValidationException (p. 455)</td>
<td>The request failed because the input doesn't satisfy the constraints specified by the service.</td>
</tr>
<tr>
<td>402</td>
<td>ServiceQuotaExceededException (p. 456)</td>
<td>The request failed because fulfilling the request would exceed one or more service quotas for your account.</td>
</tr>
<tr>
<td>403</td>
<td>AccessDeniedException (p. 456)</td>
<td>The request was denied because you don't have sufficient access to the specified resource.</td>
</tr>
<tr>
<td>404</td>
<td>ResourceNotFoundException (p. 456)</td>
<td>The request failed because the specified resource wasn't found.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 456)</td>
<td>The request failed because it conflicts with the current state of the specified resource.</td>
</tr>
<tr>
<td>429</td>
<td>ThrottlingException (p. 456)</td>
<td>The request failed because you sent too many requests during a certain amount of time.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException (p. 456)</td>
<td>The request failed due to an unknown internal server error, exception, or failure.</td>
</tr>
</tbody>
</table>

Schemas

Response bodies

GetUsageTotalsResponse schema

```json
{
  "timeRange": enum,
  "usageTotals": [
    {
      "currency": enum,
      "estimatedCost": "string",
      "type": enum
    }
  ]
}
```

ValidationException schema

```json
{
  "message": "string"
}
```
ServiceQuotaExceededException schema

```json
{
    "message": "string"
}
```

AccessDeniedException schema

```json
{
    "message": "string"
}
```

ResourceNotFoundException schema

```json
{
    "message": "string"
}
```

ConflictException schema

```json
{
    "message": "string"
}
```

ThrottlingException schema

```json
{
    "message": "string"
}
```

InternalServerException schema

```json
{
    "message": "string"
}
```

Properties

**AccessDeniedException**

Provides information about an error that occurred due to insufficient access to a specified resource.

**message**

The explanation of the error that occurred.

Type: string

Required: False
ConflictException

Provides information about an error that occurred due to a versioning conflict for a specified resource.

message

The explanation of the error that occurred.

Type: string
Required: False

Currency

The type of currency that the data for an Amazon Macie usage metric is reported in. Possible values are:

USD

GetUsageTotalsResponse

Provides the results of a query that retrieved aggregated usage data for an Amazon Macie account.

timeRange

The inclusive time period that the usage data applies to. Possible values are: MONTH_TO_DATE, for the current calendar month to date; and, PAST_30_DAYS, for the preceding 30 days.

Type: TimeRange (p. 458)
Required: False

usageTotals

An array of objects that contains the results of the query. Each object contains the data for a specific usage metric.

Type: Array of type UsageTotal (p. 458)
Required: False

InternalServerErrorException

 Provides information about an error that occurred due to an unknown internal server error, exception, or failure.

message

The explanation of the error that occurred.

Type: string
Required: False

ResourceNotFoundException

Provides information about an error that occurred because a specified resource wasn't found.
message
The explanation of the error that occurred.

ServiceQuotaExceededException
Provides information about an error that occurred due to one or more service quotas for an account.

message
The explanation of the error that occurred.

ThrottlingException
Provides information about an error that occurred because too many requests were sent during a certain amount of time.

message
The explanation of the error that occurred.

TimeRange
An inclusive time period that Amazon Macie usage data applies to. Possible values are:

   MONTH_TO_DATE
   PAST_30_DAYS

UsageTotal
Provides aggregated data for an Amazon Macie usage metric. The value for the metric reports estimated usage data for an account for the preceding 30 days or the current calendar month to date, depending on the time period (timeRange) specified in the request.

currency
The type of currency that the value for the metric (estimatedCost) is reported in.

   Type: Currency (p. 457)
   Required: False

estimatedCost
The estimated value for the metric.
**Type**: string  
**Required**: False

**type**

The name of the metric. Possible values are: AUTOMATED_OBJECT_MONITORING, to monitor S3 objects for automated sensitive data discovery; AUTOMATED_SENSITIVE_DATA_DISCOVERY, to analyze S3 objects for automated sensitive data discovery; DATA_INVENTORY_EVALUATION, to monitor S3 buckets; and, SENSITIVE_DATA_DISCOVERY, to run classification jobs.

**Type**: UsageType (p. 459)  
**Required**: False

**UsageType**

The name of an Amazon Macie usage metric for an account. Possible values are:

- DATA_INVENTORY_EVALUATION
- SENSITIVE_DATA_DISCOVERY
- AUTOMATED_SENSITIVE_DATA_DISCOVERY
- AUTOMATED_OBJECT_MONITORING

**ValidationException**

Provides information about an error that occurred due to a syntax error in a request.

**message**

The explanation of the error that occurred.

**Type**: string  
**Required**: False

**See also**

For more information about using this API in one of the language-specific AWS SDKs and references, see the following:

**GetUsageTotals**

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)
AWS Glossary

For the latest AWS terminology, see the AWS glossary in the AWS Glossary Reference.
Document history for the Amazon Macie API Reference

The following table describes the important changes to the documentation since the last release of Amazon Macie. For notification about updates to this documentation, you can subscribe to an RSS feed.

- **API version**: 2020-01-01 (latest)
- **Latest documentation update**: November 16, 2023

<table>
<thead>
<tr>
<th>Change</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Added APIs (p. 461)</strong></td>
<td>Added support for configuring Macie to assume an AWS Identity and Access Management (IAM) role when retrieving sample occurrences of sensitive data reported by findings.</td>
<td>November 16, 2023</td>
</tr>
<tr>
<td><strong>Changed APIs (p. 461)</strong></td>
<td>The default ManagedDataIdentifierSelector setting for new classification jobs is now RECOMMENDED. By default, new classification jobs now use the recommended set of managed data identifiers. For a list of the managed data identifiers included in the set, see <a href="https://docs.aws.amazon.com/macie2">Managed data identifiers recommended for jobs</a> in the <em>Amazon Macie User Guide</em>.</td>
<td>September 18, 2023</td>
</tr>
<tr>
<td><strong>Added APIs (p. 461)</strong></td>
<td>Added support for configuring new classification jobs to automatically use the set of managed data identifiers that we recommend for jobs.</td>
<td>June 27, 2023</td>
</tr>
<tr>
<td><strong>Updated API descriptions (p. 461)</strong></td>
<td>Updated descriptions of statistics and metadata that Macie provides about default encryption settings for Amazon Simple Storage Service (Amazon S3) buckets. Amazon S3 now automatically applies server-side encryption with Amazon S3 managed keys (SSE-S3) as the base level of encryption for objects that are added to new and existing buckets. For information about this change in Amazon S3, see <a href="https://docs.aws.amazon.com/AmazonS3/latest/userguide/default-sse.html">Setting default server-side encryption behavior</a></td>
<td>February 27, 2023</td>
</tr>
</tbody>
</table>
Added APIs (p. 461) | Added support for a new type of policy finding, Policy:IAMUser/S3BucketSharedWithCloudFront. Also updated descriptions of statistics and metadata that Macie provides about shared access to S3 buckets. The data now indicates whether a bucket is shared with an Amazon CloudFront origin access identity (OAI) or CloudFront origin access control (OAC). | February 23, 2023
---|---
Added APIs (p. 461) | Added support for analyzing S3 objects that use the S3 Glacier Instant Retrieval (Glacier_IR) storage class. For sensitive data discovery and in data source statistics and metadata, S3 objects that use this Amazon S3 storage class are now considered classifiable objects. | December 21, 2022
Added APIs (p. 461) | Added support for configuring Macie to perform automated sensitive data discovery for Amazon S3 data, and accessing the results in data source statistics, resource sensitivity profiles, findings, and other information that Macie provides about Amazon S3 data. | November 28, 2022
Added APIs (p. 461) | Added support for using allow lists to define specific text and text patterns to ignore when inspecting data sources for sensitive data. | August 30, 2022
Added APIs (p. 461) | Added support for configuring and using Macie to retrieve sample occurrences of sensitive data reported by findings. | July 26, 2022
Added APIs (p. 461) | Added support for specifying the severity of findings that a custom data identifier produces. | November 3, 2021
<table>
<thead>
<tr>
<th>Added APIs (p. 461)</th>
<th>Added S3 bucket metadata that indicates whether a bucket's permissions settings or an error prevented Macie from retrieving and processing information about the bucket or the bucket's objects. Also updated references to AWS KMS keys and customer managed keys to reflect current terminology.</th>
<th>September 30, 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added support for specifying which managed data identifiers are used by a classification job to detect sensitive data. Also added the Managed Data Identifiers resource for retrieving a list of the managed data identifiers that are currently available.</td>
<td>September 16, 2021</td>
</tr>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added support for defining runtime criteria that determine which S3 buckets a classification job analyzes. Also added the Search Data Sources resource for querying data about the AWS resources that Macie monitors and analyzes for an account.</td>
<td>May 14, 2021</td>
</tr>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added support for publishing sensitive data findings to AWS Security Hub and specifying which categories of findings to publish to Security Hub.</td>
<td>March 22, 2021</td>
</tr>
<tr>
<td>Added and deprecated APIs (p. 461)</td>
<td>Replaced the term master account with the term administrator account. This includes adding APIs that use the new term and deprecating APIs that use the previous term. The new APIs provide the same functionality as the deprecated APIs. An administrator account is used to centrally manage multiple accounts.</td>
<td>February 12, 2021</td>
</tr>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added support for using Amazon S3 object prefixes in property-based conditions that refine the scope of a classification job.</td>
<td>January 29, 2021</td>
</tr>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added Amazon S3 bucket metadata that indicates whether any one-time or recurring classification jobs are configured to analyze data in a bucket.</td>
<td>November 20, 2020</td>
</tr>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added support for pausing and resuming classification jobs by using the <a href="https://docs.aws.amazon.com/macie/latest/APIReference/API_UpdateClassificationJob.html">UpdateClassificationJob</a> operation. Also, sensitive data findings now include location data for up to 15 occurrences of sensitive data in an affected Amazon S3 object.</td>
<td>October 15, 2020</td>
</tr>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added Amazon S3 bucket metadata and statistics that indicate the size and count of objects that Macie can analyze as part of a classification job.</td>
<td>September 2, 2020</td>
</tr>
<tr>
<td>Added APIs (p. 461)</td>
<td>Added criteria for sorting and filtering query results for account quotas and usage statistics.</td>
<td>July 24, 2020</td>
</tr>
<tr>
<td>Removed APIs (p. 461)</td>
<td>Removed support for the <a href="https://docs.aws.amazon.com/macie/latest/APIReference/API_ArchiveFindings.html">ArchiveFindings</a> and <a href="https://docs.aws.amazon.com/macie/latest/APIReference/API_UnarchiveFindings.html">UnarchiveFindings</a> operations. To suppress findings, use the action parameter of the <a href="https://docs.aws.amazon.com/macie/latest/APIReference/API_CreateFindingsFilter.html">CreateFindingsFilter</a> and <a href="https://docs.aws.amazon.com/macie/latest/APIReference/API_UpdateFindingsFilter.html">UpdateFindingsFilter</a> operations.</td>
<td>June 11, 2020</td>
</tr>
<tr>
<td>General availability (p. 461)</td>
<td>This release introduces version 2020-01-01 of the Amazon Macie API.</td>
<td>May 13, 2020</td>
</tr>
</tbody>
</table>