



API Reference

# AWS Clean Rooms



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# AWS Clean Rooms: API Reference

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# Welcome

Welcome to the *AWS Clean Rooms API Reference*.

AWS Clean Rooms is an AWS service that helps multiple parties to join their data together in a secure collaboration workspace. In the collaboration, members who can run queries and jobs and receive results can get insights into the collective datasets without either party getting access to the other party's raw data.

To learn more about AWS Clean Rooms concepts, procedures, and best practices, see the [AWS Clean Rooms User Guide](#).

To learn more about SQL commands, functions, and conditions supported in AWS Clean Rooms, see the [AWS Clean Rooms SQL Reference](#).

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# Actions

The following actions are supported:

- [BatchGetCollaborationAnalysisTemplate](#)
- [BatchGetSchema](#)
- [BatchGetSchemaAnalysisRule](#)
- [CreateAnalysisTemplate](#)
- [CreateCollaboration](#)
- [CreateCollaborationChangeRequest](#)
- [CreateConfiguredAudienceModelAssociation](#)
- [CreateConfiguredTable](#)
- [CreateConfiguredTableAnalysisRule](#)
- [CreateConfiguredTableAssociation](#)
- [CreateConfiguredTableAssociationAnalysisRule](#)
- [CreateIdMappingTable](#)
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- [CreateMembership](#)
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- [DeleteAnalysisTemplate](#)
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- [DeleteIdMappingTable](#)
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- [DeleteMember](#)
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- [DeletePrivacyBudgetTemplate](#)

- [GetAnalysisTemplate](#)
- [GetCollaboration](#)
- [GetCollaborationAnalysisTemplate](#)
- [GetCollaborationChangeRequest](#)
- [GetCollaborationConfiguredAudienceModelAssociation](#)
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- [ListTagsForResource](#)
- [PopulateIdMappingTable](#)
- [PreviewPrivacyImpact](#)
- [StartProtectedJob](#)
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- [TagResource](#)
- [UntagResource](#)
- [UpdateAnalysisTemplate](#)
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- [UpdateConfiguredTable](#)
- [UpdateConfiguredTableAnalysisRule](#)
- [UpdateConfiguredTableAssociation](#)
- [UpdateConfiguredTableAssociationAnalysisRule](#)
- [UpdateIdMappingTable](#)
- [UpdateIdNamespaceAssociation](#)
- [UpdateMembership](#)
- [UpdatePrivacyBudgetTemplate](#)
- [UpdateProtectedJob](#)

- [UpdateProtectedQuery](#)

# BatchGetCollaborationAnalysisTemplate

Retrieves multiple analysis templates within a collaboration by their Amazon Resource Names (ARNs).

## Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-analysis-templates HTTP/1.1
Content-type: application/json

{
  "analysisTemplateArns": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analysisTemplateArns

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "collaborationAnalysisTemplates": [
    {
      "analysisParameters": [
        {
          "defaultValue": "string",
          "name": "string",
          "type": "string"
        }
      ],
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "errorMessageConfiguration": {
        "type": "string"
      },
      "format": "string",
      "id": "string",
      "name": "string",
      "schema": {
        "referencedTables": [ "string" ]
      },
      "source": { ... },
      "sourceMetadata": { ... },
      "syntheticDataParameters": { ... },
      "updateTime": number,
      "validations": [
```

```
{
  "reasons": [
    {
      "message": "string"
    }
  ],
  "status": "string",
  "type": "string"
}
],
"errors": [
  {
    "arn": "string",
    "code": "string",
    "message": "string"
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationAnalysisTemplates

The retrieved list of analysis templates within a collaboration.

Type: Array of [CollaborationAnalysisTemplate](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

### errors

Error reasons for collaboration analysis templates that could not be retrieved. One error is returned for every collaboration analysis template that could not be retrieved.

Type: Array of [BatchGetCollaborationAnalysisTemplateError](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchema

Retrieves multiple schemas by their identifiers.

## Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-schema HTTP/1.1
Content-type: application/json

{
  "names": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schemas belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### names

The names for the schema objects to retrieve.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+-)* ([a-zA-Z0-9_ ]+))?`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "errors": [
    {
      "code": "string",
      "message": "string",
      "name": "string"
    }
  ],
  "schemas": [
    {
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "columns": [
        {
          "name": "string",
          "type": "string"
        }
      ],
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "name": "string",
      "partitionKeys": [
        {
          "name": "string",
          "type": "string"
        }
      ],
      "resourceArn": "string",
      "schemaStatusDetails": [
```

```
{
  {
    "analysisRuleType": "string",
    "analysisType": "string",
    "configurations": [ "string" ],
    "reasons": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "status": "string"
  }
],
"schemaTypeProperties": { ... },
"selectedAnalysisMethods": [ "string" ],
"type": "string",
"updateTime": number
}
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### errors

Error reasons for schemas that could not be retrieved. One error is returned for every schema that could not be retrieved.

Type: Array of [BatchGetSchemaError](#) objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

### schemas

The retrieved list of schemas.

Type: Array of [Schema](#) objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchemaAnalysisRule

Retrieves multiple analysis rule schemas.

## Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-schema-analysis-rule HTTP/1.1
Content-type: application/json
```

```
{
  "schemaAnalysisRuleRequests": [
    {
      "name": "string",
      "type": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The unique identifier of the collaboration that contains the schema analysis rule.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### schemaAnalysisRuleRequests

The information that's necessary to retrieve a schema analysis rule.

Type: Array of [SchemaAnalysisRuleRequest](#) objects

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRules": [
    {
      "collaborationId": "string",
      "collaborationPolicy": { ... },
      "consolidatedPolicy": { ... },
      "createTime": number,
      "name": "string",
      "policy": { ... },
      "type": "string",
      "updateTime": number
    }
  ],
  "errors": [
    {
      "code": "string",
      "message": "string",
      "name": "string",
      "type": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRules

The retrieved list of analysis rules.

Type: Array of [AnalysisRule](#) objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

## errors

Error reasons for schemas that could not be retrieved. One error is returned for every schema that could not be retrieved.

Type: Array of [BatchGetSchemaAnalysisRuleError](#) objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateAnalysisTemplate

Creates a new analysis template.

## Request Syntax

```
POST /memberships/membershipIdentifier/analysistemplates HTTP/1.1  
Content-type: application/json
```

```
{  
  "analysisParameters": [  
    {  
      "defaultValue": "string",  
      "name": "string",  
      "type": "string"  
    }  
  ],  
  "description": "string",  
  "errorMessageConfiguration": {  
    "type": "string"  
  },  
  "format": "string",  
  "name": "string",  
  "schema": {  
    "referencedTables": [ "string" ]  
  },  
  "source": { ... },  
  "syntheticDataParameters": { ... },  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analysisParameters

The parameters of the analysis template.

Type: Array of [AnalysisParameter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

### description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: [\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]\*

Required: No

### errorMessageConfiguration

The configuration that specifies the level of detail in error messages returned by analyses using this template. When set to DETAILED, error messages include more information to help troubleshoot issues with PySpark jobs. Detailed error messages may expose underlying data, including sensitive information. Recommended for faster troubleshooting in development and testing environments.

Type: [ErrorMessageConfiguration](#) object

Required: No

## format

The format of the analysis template.

Type: String

Valid Values: SQL | PYSPARK\_1\_0

Required: Yes

## name

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

## schema

A relation within an analysis.

Type: [AnalysisSchema](#) object

Required: No

## source

The information in the analysis template.

Type: [AnalysisSource](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## syntheticDataParameters

The parameters for generating synthetic data when running the analysis template.

Type: [SyntheticDataParameters](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisTemplate": {
    "analysisParameters": [
      {
        "defaultValue": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "errorMessageConfiguration": {
      "type": "string"
    },
    "format": "string",
    "id": "string",
    "membershipArn": "string",
```

```
"membershipId": "string",
"name": "string",
"schema": {
  "referencedTables": [ "string" ]
},
"source": { ... },
"sourceMetadata": { ... },
"syntheticDataParameters": { ... },
"updateTime": number,
"validations": [
  {
    "reasons": [
      {
        "message": "string"
      }
    ],
    "status": "string",
    "type": "string"
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [analysisTemplate](#)

The analysis template.

Type: [AnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

**ConflictException**

Updating or deleting a resource can cause an inconsistent state.

**reason**

A reason code for the exception.

**resourceId**

The ID of the conflicting resource.

**resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

**quotaName**

The name of the quota.

**quotaValue**

The value of the quota.

HTTP Status Code: 402

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateCollaboration

Creates a new collaboration.

## Request Syntax

```
POST /collaborations HTTP/1.1
Content-type: application/json
```

```
{
  "allowedResultRegions": [ "string" ],
  "analyticsEngine": "string",
  "autoApprovedChangeRequestTypes": [ "string" ],
  "creatorDisplayName": "string",
  "creatorMemberAbilities": [ "string" ],
  "creatorMLMemberAbilities": {
    "customMLMemberAbilities": [ "string" ]
  },
  "creatorPaymentConfiguration": {
    "jobCompute": {
      "isResponsible": boolean
    },
    "machineLearning": {
      "modelInference": {
        "isResponsible": boolean
      },
      "modelTraining": {
        "isResponsible": boolean
      },
      "syntheticDataGeneration": {
        "isResponsible": boolean
      }
    },
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "dataEncryptionMetadata": {
    "allowCleartext": boolean,
    "allowDuplicates": boolean,
    "allowJoinsOnColumnsWithDifferentNames": boolean,
    "preserveNulls": boolean
  },
}
```

```
"description": "string",
"isMetricsEnabled": boolean,
"jobLogStatus": "string",
"members": [
  {
    "accountId": "string",
    "displayName": "string",
    "memberAbilities": [ "string" ],
    "mlMemberAbilities": {
      "customMLMemberAbilities": [ "string" ]
    },
    "paymentConfiguration": {
      "jobCompute": {
        "isResponsible": boolean
      },
      "machineLearning": {
        "modelInference": {
          "isResponsible": boolean
        },
        "modelTraining": {
          "isResponsible": boolean
        },
        "syntheticDataGeneration": {
          "isResponsible": boolean
        }
      },
      "queryCompute": {
        "isResponsible": boolean
      }
    }
  }
],
"name": "string",
"queryLogStatus": "string",
"tags": {
  "string" : "string"
}
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### allowedResultRegions

The AWS Regions where collaboration query results can be stored. When specified, results can only be written to these Regions. This parameter enables you to meet your compliance and data governance requirements, and implement regional data governance policies.

Type: Array of strings

Valid Values: us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-east-2 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1

Required: No

### analyticsEngine

The analytics engine.

#### **Note**

After July 16, 2025, the CLEAN\_ROOMS\_SQL parameter will no longer be available.

Type: String

Valid Values: SPARK | CLEAN\_ROOMS\_SQL

Required: No

### autoApprovedChangeRequestTypes

The types of change requests that are automatically approved for this collaboration.

Type: Array of strings

Valid Values: ADD\_MEMBER | GRANT\_RECEIVE\_RESULTS\_ABILITY |  
REVOKE\_RECEIVE\_RESULTS\_ABILITY

Required: No

### creatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### creatorMemberAbilities

The abilities granted to the collaboration creator.

Type: Array of strings

Valid Values: CAN\_QUERY | CAN\_RECEIVE\_RESULTS | CAN\_RUN\_JOB

Required: Yes

### creatorMLMemberAbilities

The ML abilities granted to the collaboration creator.

Type: [MLMemberAbilities](#) object

Required: No

### creatorPaymentConfiguration

The collaboration creator's payment responsibilities set by the collaboration creator.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer.

Type: [PaymentConfiguration](#) object

Required: No

## dataEncryptionMetadata

The settings for client-side encryption with Cryptographic Computing for Clean Rooms.

Type: [DataEncryptionMetadata](#) object

Required: No

## description

A description of the collaboration provided by the collaboration owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]\*

Required: Yes

## isMetricsEnabled

An indicator as to whether metrics have been enabled or disabled for the collaboration.

When `true`, collaboration members can opt in to Amazon CloudWatch metrics for their membership queries. The default value is `false`.

Type: Boolean

Required: No

## jobLogStatus

Specifies whether job logs are enabled for this collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration; those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

## members

A list of initial members, not including the creator. This list is immutable.

Type: Array of [MemberSpecification](#) objects

Array Members: Minimum number of 0 items.

Required: Yes

## name

The display name for a collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

## queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the collaboration.

When ENABLED, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaboration": {
    "allowedResultRegions": [ "string" ],
    "analyticsEngine": "string",
    "arn": "string",
    "autoApprovedChangeTypes": [ "string" ],
    "createTime": number,
    "creatorAccountId": "string",
    "creatorDisplayName": "string",
    "dataEncryptionMetadata": {
      "allowCleartext": boolean,
      "allowDuplicates": boolean,
      "allowJoinsOnColumnsWithDifferentNames": boolean,
      "preserveNulls": boolean
    },
    "description": "string",
    "id": "string",
    "isMetricsEnabled": boolean,
    "jobLogStatus": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "memberStatus": "string",
    "name": "string",
    "queryLogStatus": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## collaboration

The collaboration.

Type: [Collaboration](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateCollaborationChangeRequest

Creates a new change request to modify an existing collaboration. This enables post-creation modifications to collaborations through a structured API-driven approach.

## Request Syntax

```
POST /collaborations/collaborationIdentifier/changeRequests HTTP/1.1
Content-type: application/json
```

```
{
  "changes": [
    {
      "specification": { ... },
      "specificationType": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier of the collaboration that the change request is made against.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### changes

The list of changes to apply to the collaboration. Each change specifies the type of modification and the details of what should be changed.

Type: Array of [ChangeInput](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationChangeRequest": {
    "approvals": {
      "string" : {
        "status": "string"
      }
    },
    "changes": [
      {
        "specification": { ... },
        "specificationType": "string",
        "types": [ "string" ]
      }
    ],
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "isAutoApproved": boolean,
    "status": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## collaborationChangeRequest

Represents a request to modify a collaboration. Change requests enable structured modifications to collaborations after they have been created.

Type: [CollaborationChangeRequest](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

**quotaName**

The name of the quota.

**quotaValue**

The value of the quota.

HTTP Status Code: 402

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredAudienceModelAssociation

Provides the details necessary to create a configured audience model association.

## Request Syntax

```
POST /memberships/membershipIdentifier/configuredaudiencemodelassociations HTTP/1.1  
Content-type: application/json
```

```
{  
  "configuredAudienceModelArn": "string",  
  "configuredAudienceModelAssociationName": "string",  
  "description": "string",  
  "manageResourcePolicies": boolean,  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The configured audience model is associated to the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### configuredAudienceModelArn

A unique identifier for the configured audience model that you want to associate.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### [configuredAudienceModelAssociationName](#)

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### [description](#)

A description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

### [manageResourcePolicies](#)

When TRUE, indicates that the resource policy for the configured audience model resource being associated is configured for AWS Clean Rooms to manage permissions related to the given collaboration. When FALSE, indicates that the configured audience model resource owner will manage permissions related to the given collaboration.

Setting this to TRUE requires you to have permissions to create, update, and delete the resource policy for the `cleanrooms-m1` resource when you call the [DeleteConfiguredAudienceModelAssociation](#) resource. In addition, if you are the collaboration

creator and specify TRUE, you must have the same permissions when you call the [DeleteMember](#) and [DeleteCollaboration](#) APIs.

Type: Boolean

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "manageResourcePolicies": boolean,
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "updateTime": number
  }
}
```

```
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelAssociation](#)

Information about the configured audience model association.

Type: [ConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredTable

Creates a new configured table resource.

## Request Syntax

```
POST /configuredTables HTTP/1.1
Content-type: application/json

{
  "allowedColumns": [ "string" ],
  "analysisMethod": "string",
  "description": "string",
  "name": "string",
  "selectedAnalysisMethods": [ "string" ],
  "tableReference": { ... },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### allowedColumns

The columns of the underlying table that can be used by collaborations or analysis rules.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]+([a-z0-9_]+)*([a-z0-9_]+)?`

Required: Yes

## analysisMethod

The analysis method allowed for the configured tables.

DIRECT\_QUERY allows SQL queries to be run directly on this table.

DIRECT\_JOB allows PySpark jobs to be run directly on this table.

MULTIPLE allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: DIRECT\_QUERY | DIRECT\_JOB | MULTIPLE

Required: Yes

## description

A description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## name

The name of the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## selectedAnalysisMethods

The analysis methods to enable for the configured table. When configured, you must specify at least two analysis methods.

Type: Array of strings

Valid Values: DIRECT\_QUERY | DIRECT\_JOB

Required: No

### [tableReference](#)

A reference to the table being configured.

Type: [TableReference](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### [tags](#)

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTable": {
    "allowedColumns": [ "string " ],
    "analysisMethod": "string",
    "analysisRuleTypes": [ "string " ],
    "arn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
```

```
  "name": "string",
  "selectedAnalysisMethods": [ "string" ],
  "tableReference": { ... },
  "updateTime": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTable

The created configured table.

Type: [ConfiguredTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

**resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

**InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

**quotaName**

The name of the quota.

**quotaValue**

The value of the quota.

HTTP Status Code: 402

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredTableAnalysisRule

Creates a new analysis rule for a configured table. Currently, only one analysis rule can be created for a given configured table.

## Request Syntax

```
POST /configuredTables/configuredTableIdentifier/analysisRule HTTP/1.1
Content-type: application/json
```

```
{
  "analysisRulePolicy": { ... },
  "analysisRuleType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The identifier for the configured table to create the analysis rule for. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analysisRulePolicy

The analysis rule policy that was created for the configured table.

Type: [ConfiguredTableAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### analysisRuleType

The type of analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

The analysis rule that was created for the configured table.

Type: [ConfiguredTableAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredTableAssociation

Creates a configured table association. A configured table association links a configured table with a collaboration.

## Request Syntax

```
POST /memberships/membershipIdentifier/configuredTableAssociations HTTP/1.1
Content-type: application/json
```

```
{
  "configuredTableIdentifier": "string",
  "description": "string",
  "name": "string",
  "roleArn": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The configured table is associated to the collaboration that this membership belongs to. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### configuredTableIdentifier

A unique identifier for the configured table to be associated to. Currently accepts a configured table ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### description

A description for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

The name of the configured table association. This name is used to query the underlying configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### roleArn

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam:[\w]+:role/[\w+=./@-]+`

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTableAssociation": {
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "roleArn": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredTableAssociation](#)

The configured table association.

Type: [ConfiguredTableAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredTableAssociationAnalysisRule

Creates a new analysis rule for an associated configured table.

## Request Syntax

```
POST /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier/analysisRule HTTP/1.1
Content-type: application/json
```

```
{
  "analysisRulePolicy": { ... },
  "analysisRuleType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [configuredTableAssociationIdentifier](#)

The unique ID for the configured table association. Currently accepts the configured table association ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### [membershipIdentifier](#)

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### [analysisRulePolicy](#)

The analysis rule policy that was created for the configured table association.

Type: [ConfiguredTableAssociationAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### [analysisRuleType](#)

The type of analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "configuredTableAssociationArn": "string",
    "configuredTableAssociationId": "string",
    "createTime": number,
    "membershipIdentifier": "string",
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

The analysis rule for the configured table association. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

Type: [ConfiguredTableAssociationAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateIdMappingTable

Creates an ID mapping table.

## Request Syntax

```
POST /memberships/membershipIdentifier/idmappingtables HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "description": "string",
  "inputReferenceConfig": {
    "inputReferenceArn": "string",
    "manageResourcePolicies": boolean
  },
  "kmsKeyArn": "string",
  "name": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The unique identifier of the membership that contains the ID mapping table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## description

A description of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## inputReferenceConfig

The input reference configuration needed to create the ID mapping table.

Type: [IdMappingTableInputReferenceConfig](#) object

Required: Yes

## kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This value is used to encrypt the mapping table data that is stored by AWS Clean Rooms.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

## name

A name for the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "idMappingTable": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "inputReferenceConfig": {
      "inputReferenceArn": "string",
      "manageResourcePolicies": boolean
    },
    "inputReferenceProperties": {
      "idMappingTableInputSource": [
        {
          "idNamespaceAssociationId": "string",
          "type": "string"
        }
      ]
    },
    "kmsKeyArn": "string",
```

```
"membershipArn": "string",
"membershipId": "string",
"name": "string",
"updateTime": number
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### idMappingTable

The ID mapping table that was created.

Type: [IdMappingTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

**resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

**InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

**quotaName**

The name of the quota.

**quotaValue**

The value of the quota.

HTTP Status Code: 402

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateIdNamespaceAssociation

Creates an ID namespace association.

## Request Syntax

```
POST /memberships/membershipIdentifier/idnamespaceassociations HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "idMappingConfig": {
    "allowUseAsDimensionColumn": boolean
  },
  "inputReferenceConfig": {
    "inputReferenceArn": "string",
    "manageResourcePolicies": boolean
  },
  "name": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The unique identifier of the membership that contains the ID namespace association.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## description

The description of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## idMappingConfig

The configuration settings for the ID mapping table.

Type: [IdMappingConfig](#) object

Required: No

## inputReferenceConfig

The input reference configuration needed to create the ID namespace association.

Type: [IdNamespaceAssociationInputReferenceConfig](#) object

Required: Yes

## name

The name for the ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "idNamespaceAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "idMappingConfig": {
      "allowUseAsDimensionColumn": boolean
    },
    "inputReferenceConfig": {
      "inputReferenceArn": "string",
      "manageResourcePolicies": boolean
    },
    "inputReferenceProperties": {
      "idMappingWorkflowsSupported": [ JSON value ],
      "idNamespaceType": "string"
    },
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [idNamespaceAssociation](#)

The ID namespace association that was created.

Type: [IdNamespaceAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ServiceQuotaExceededException

Request denied because service quota has been exceeded.

### **quotaName**

The name of the quota.

### **quotaValue**

The value of the quota.

HTTP Status Code: 402

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateMembership

Creates a membership for a specific collaboration identifier and joins the collaboration.

## Request Syntax

```
POST /memberships HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "collaborationIdentifier": "string",
  "defaultJobResultConfiguration": {
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "defaultResultConfiguration": {
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "isMetricsEnabled": boolean,
  "jobLogStatus": "string",
  "paymentConfiguration": {
    "jobCompute": {
      "isResponsible": boolean
    },
    "machineLearning": {
      "modelInference": {
        "isResponsible": boolean
      },
      "modelTraining": {
        "isResponsible": boolean
      },
      "syntheticDataGeneration": {
        "isResponsible": boolean
      }
    },
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "queryLogStatus": "string",
  "tags": {
    "string" : "string"
  }
}
```

```
}  
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### collaborationIdentifier

The unique ID for the associated collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### defaultJobResultConfiguration

The default job result configuration that determines how job results are protected and managed within this membership. This configuration applies to all jobs.

Type: [MembershipProtectedJobResultConfiguration](#) object

Required: No

### defaultResultConfiguration

The default protected query result configuration as specified by the member who can receive results.

Type: [MembershipProtectedQueryResultConfiguration](#) object

Required: No

### isMetricsEnabled

An indicator as to whether Amazon CloudWatch metrics have been enabled or disabled for the membership.

Amazon CloudWatch metrics are only available when the collaboration has metrics enabled. This option can be set by collaboration members who have the ability to run queries (analysis runners) or by members who are configured as payers.

When `true`, metrics about query execution are collected in Amazon CloudWatch. The default value is `false`.

Type: Boolean

Required: No

### [jobLogStatus](#)

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

### [paymentConfiguration](#)

The payment responsibilities accepted by the collaboration member.

Not required if the collaboration member has the member ability to run queries.

Required if the collaboration member doesn't have the member ability to run queries but is configured as a payer by the collaboration creator.

Type: [MembershipPaymentConfiguration](#) object

Required: No

### [queryLogStatus](#)

An indicator as to whether query logging has been enabled or disabled for the membership.

When `ENABLED`, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "membership": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "defaultJobResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
    },
    "defaultResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
    }
  },
}
```

```

    "id": "string",
    "isMetricsEnabled": boolean,
    "jobLogStatus": "string",
    "memberAbilities": [ "string" ],
    "mlMemberAbilities": {
      "customMLMemberAbilities": [ "string" ]
    },
    "paymentConfiguration": {
      "jobCompute": {
        "isResponsible": boolean
      },
      "machineLearning": {
        "modelInference": {
          "isResponsible": boolean
        },
        "modelTraining": {
          "isResponsible": boolean
        },
        "syntheticDataGeneration": {
          "isResponsible": boolean
        }
      },
      "queryCompute": {
        "isResponsible": boolean
      }
    },
    "queryLogStatus": "string",
    "status": "string",
    "updateTime": number
  }
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### membership

The membership that was created.

Type: [Membership](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

**reason**

A reason code for the exception.

**resourceId**

The ID of the conflicting resource.

**resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreatePrivacyBudgetTemplate

Creates a privacy budget template for a specified collaboration. Each collaboration can have only one privacy budget template. If you need to change the privacy budget template, use the [UpdatePrivacyBudgetTemplate](#) operation.

## Request Syntax

```
POST /memberships/membershipIdentifier/privacybudgettemplates HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "autoRefresh": "string",
  "parameters": { ... },
  "privacyBudgetType": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [membershipIdentifier](#)

A unique identifier for one of your memberships for a collaboration. The privacy budget template is created in the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## autoRefresh

How often the privacy budget refreshes.

### **Important**

If you plan to regularly bring new data into the collaboration, you can use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queries across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH` | `NONE`

Required: No

## parameters

Specifies your parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateParametersInput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## privacyBudgetType

Specifies the type of the privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY` | `ACCESS_BUDGET`

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "privacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### privacyBudgetTemplate

A summary of the elements in the privacy budget template.

Type: [PrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

**reason**

A reason code for the exception.

**resourceId**

The ID of the conflicting resource.

**resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAnalysisTemplate

Deletes an analysis template.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/analysistemplates/analysisTemplateIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteCollaboration

Deletes a collaboration. It can only be called by the collaboration owner.

## Request Syntax

```
DELETE /collaborations/collaborationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

Caller does not have sufficient access to perform this action.

### reason

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteConfiguredAudienceModelAssociation

Provides the information necessary to delete a configured audience model association.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/  
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelAssociationIdentifier

A unique identifier of the configured audience model association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier of the membership that contains the audience model association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteConfiguredTable

Deletes a configured table.

## Request Syntax

```
DELETE /configuredTables/configuredTableIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The unique ID for the configured table to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

### **reason**

A reason code for the exception.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

### **reason**

A reason code for the exception.

### **resourceId**

The ID of the conflicting resource.

### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteConfiguredTableAnalysisRule

Deletes a configured table analysis rule.

## Request Syntax

```
DELETE /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisRuleType

The analysis rule type to be deleted. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### configuredTableIdentifier

The unique identifier for the configured table that the analysis rule applies to. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteConfiguredTableAssociation

Deletes a configured table association.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableAssociationIdentifier

The unique ID for the configured table association to be deleted. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

## **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteConfiguredTableAssociationAnalysisRule

Deletes an analysis rule for a configured table association.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier/  
analysisRule/analysisRuleType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisRuleType

The type of the analysis rule that you want to delete.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### configuredTableAssociationIdentifier

The identifier for the configured table association that's related to the analysis rule that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### reason

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### reason

A reason code for the exception.

#### resourceId

The ID of the conflicting resource.

#### resourceType

The type of the conflicting resource.

HTTP Status Code: 409

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteIdMappingTable

Deletes an ID mapping table.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### idMappingTableIdentifier

The unique identifier of the ID mapping table that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteIdNamespaceAssociation

Deletes an ID namespace association.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/  
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteMember

Removes the specified member from a collaboration. The removed member is placed in the Removed status and can't interact with the collaboration. The removed member's data is inaccessible to active members of the collaboration.

## Request Syntax

```
DELETE /collaborations/collaborationIdentifier/member/accountId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### accountId

The account ID of the member to remove.

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### collaborationIdentifier

The unique identifier for the associated collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

## **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteMembership

Deletes a specified membership. All resources under a membership must be deleted.

## Request Syntax

```
DELETE /memberships/membershipIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

### **reason**

A reason code for the exception.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

### **reason**

A reason code for the exception.

### **resourceId**

The ID of the conflicting resource.

### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeletePrivacyBudgetTemplate

Deletes a privacy budget template for a specified collaboration.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is deleted from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetAnalysisTemplate

Retrieves an analysis template.

## Request Syntax

```
GET /memberships/membershipIdentifier/analysis/templates/analysisTemplateIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"analysisTemplate": {
  "analysisParameters": [
    {
      "defaultValue": "string",
      "name": "string",
      "type": "string"
    }
  ],
  "arn": "string",
  "collaborationArn": "string",
  "collaborationId": "string",
  "createTime": number,
  "description": "string",
  "errorMessageConfiguration": {
    "type": "string"
  },
  "format": "string",
  "id": "string",
  "membershipArn": "string",
  "membershipId": "string",
  "name": "string",
  "schema": {
    "referencedTables": [ "string" ]
  },
  "source": { ... },
  "sourceMetadata": { ... },
  "syntheticDataParameters": { ... },
  "updateTime": number,
  "validations": [
    {
      "reasons": [
        {
          "message": "string"
        }
      ],
      "status": "string",
      "type": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisTemplate

The analysis template.

Type: [AnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaboration

Returns metadata about a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaboration": {
    "allowedResultRegions": [ "string" ],
    "analyticsEngine": "string",
    "arn": "string",
    "autoApprovedChangeTypes": [ "string" ],
    "createTime": number,
    "creatorAccountId": "string",
    "creatorDisplayName": "string",
    "dataEncryptionMetadata": {
```

```
    "allowCleartext": boolean,
    "allowDuplicates": boolean,
    "allowJoinsOnColumnsWithDifferentNames": boolean,
    "preserveNulls": boolean
  },
  "description": "string",
  "id": "string",
  "isMetricsEnabled": boolean,
  "jobLogStatus": "string",
  "membershipArn": "string",
  "membershipId": "string",
  "memberStatus": "string",
  "name": "string",
  "queryLogStatus": "string",
  "updateTime": number
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaboration

The entire collaboration for this identifier.

Type: [Collaboration](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### reason

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetCollaborationAnalysisTemplate

Retrieves an analysis template within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/analysistemplates/analysisTemplateArn
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "collaborationAnalysisTemplate": {
    "analysisParameters": [
      {
        "defaultValue": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "description": "string",
    "errorMessageConfiguration": {
      "type": "string"
    },
    "format": "string",
    "id": "string",
    "name": "string",
    "schema": {
      "referencedTables": [ "string" ]
    },
    "source": { ... },
    "sourceMetadata": { ... },
    "syntheticDataParameters": { ... },
    "updateTime": number,
    "validations": [
      {
        "reasons": [
          {
            "message": "string"
          }
        ],
        "status": "string",
        "type": "string"
      }
    ]
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationAnalysisTemplate

The analysis template within a collaboration.

Type: [CollaborationAnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaborationChangeRequest

Retrieves detailed information about a specific collaboration change request.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/changeRequests/changeRequestIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### changeRequestIdentifier

A unique identifier for the change request to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### collaborationIdentifier

The identifier of the collaboration that the change request is made against.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "collaborationChangeRequest": {
    "approvals": {
      "string": {
        "status": "string"
      }
    },
    "changes": [
      {
        "specification": { ... },
        "specificationType": "string",
        "types": [ "string" ]
      }
    ],
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "isAutoApproved": boolean,
    "status": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationChangeRequest

The collaboration change request that was requested.

Type: [CollaborationChangeRequest](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaborationConfiguredAudienceModelAssociation

Retrieves a configured audience model association within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the configured audience model association belongs to. Accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationConfiguredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "description": "string",
    "id": "string",
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationConfiguredAudienceModelAssociation](#)

The metadata of the configured audience model association.

Type: [CollaborationConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### reason

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaborationIdNamespaceAssociation

Retrieves an ID namespace association from a specific collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The unique identifier of the collaboration that contains the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationIdNamespaceAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "description": "string",
    "id": "string",
    "idMappingConfig": {
      "allowUseAsDimensionColumn": boolean
    },
    "inputReferenceConfig": {
      "inputReferenceArn": "string",
      "manageResourcePolicies": boolean
    },
    "inputReferenceProperties": {
      "idMappingWorkflowsSupported": [ JSON value ],
      "idNamespaceType": "string"
    },
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationIdNamespaceAssociation

The ID namespace association that you requested.

Type: [CollaborationIdNamespaceAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

### **reason**

A reason code for the exception.

HTTP Status Code: 403

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaborationPrivacyBudgetTemplate

Returns details about a specified privacy budget template.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/  
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### privacyBudgetTemplateIdentifier

A unique identifier for one of your privacy budget templates.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationPrivacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "id": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationPrivacyBudgetTemplate

Returns the details of the privacy budget template that you requested.

Type: [CollaborationPrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredAudienceModelAssociation

Returns information about a configured audience model association.

## Request Syntax

```
GET /memberships/membershipIdentifier/  
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

A unique identifier for the membership that contains the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "configuredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "manageResourcePolicies": boolean,
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredAudienceModelAssociation

Information about the configured audience model association that you requested.

Type: [ConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### reason

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredTable

Retrieves a configured table.

## Request Syntax

```
GET /configuredTables/configuredTableIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The unique ID for the configured table to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "configuredTable": {
    "allowedColumns": [ "string" ],
    "analysisMethod": "string",
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "name": "string",
```

```
"selectedAnalysisMethods": [ "string" ],
"tableReference": { ... },
"updateTime": number
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTable

The retrieved configured table.

Type: [ConfiguredTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

## **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetConfiguredTableAnalysisRule

Retrieves a configured table analysis rule.

## Request Syntax

```
GET /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisRuleType

The analysis rule to be retrieved. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### configuredTableIdentifier

The unique identifier for the configured table to retrieve. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "analysisRule": {
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

The entire analysis rule output.

Type: [ConfiguredTableAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredTableAssociation

Retrieves a configured table association.

## Request Syntax

```
GET /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableAssociationIdentifier

The unique ID for the configured table association to retrieve. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "configuredTableAssociation": {
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "roleArn": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTableAssociation

The entire configured table association object.

Type: [ConfiguredTableAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredTableAssociationAnalysisRule

Retrieves the analysis rule for a configured table association.

## Request Syntax

```
GET /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier/  
analysisRule/analysisRuleType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisRuleType

The type of analysis rule that you want to retrieve.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### configuredTableAssociationIdentifier

The identifier for the configured table association that's related to the analysis rule.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "configuredTableAssociationArn": "string",
    "configuredTableAssociationId": "string",
    "createTime": number,
    "membershipIdentifier": "string",
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

The analysis rule for the configured table association. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

Type: [ConfiguredTableAssociationAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetIdMappingTable

Retrieves an ID mapping table.

## Request Syntax

```
GET /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### idMappingTableIdentifier

The unique identifier of the ID mapping table identifier that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "idMappingTable": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "inputReferenceConfig": {
      "inputReferenceArn": "string",
      "manageResourcePolicies": boolean
    },
    "inputReferenceProperties": {
      "idMappingTableInputSource": [
        {
          "idNamespaceAssociationId": "string",
          "type": "string"
        }
      ]
    },
    "kmsKeyArn": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [idMappingTable](#)

The ID mapping table that you requested.

Type: [IdMappingTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

### **reason**

A reason code for the exception.

HTTP Status Code: 403

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetIdNamespaceAssociation

Retrieves an ID namespace association.

## Request Syntax

```
GET /memberships/membershipIdentifier/  
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "idNamespaceAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "idMappingConfig": {
      "allowUseAsDimensionColumn": boolean
    },
    "inputReferenceConfig": {
      "inputReferenceArn": "string",
      "manageResourcePolicies": boolean
    },
    "inputReferenceProperties": {
      "idMappingWorkflowsSupported": [ JSON value ],
      "idNamespaceType": "string"
    },
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [idNamespaceAssociation](#)

The ID namespace association that you requested.

Type: [IdNamespaceAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

### **reason**

A reason code for the exception.

HTTP Status Code: 403

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetMembership

Retrieves a specified membership for an identifier.

## Request Syntax

```
GET /memberships/membershipIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "membership": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "defaultJobResultConfiguration": {
      "outputConfiguration": { ... },
    }
  }
}
```

```

    "roleArn": "string"
  },
  "defaultResultConfiguration": {
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "id": "string",
  "isMetricsEnabled": boolean,
  "jobLogStatus": "string",
  "memberAbilities": [ "string" ],
  "mlMemberAbilities": {
    "customMLMemberAbilities": [ "string" ]
  },
  "paymentConfiguration": {
    "jobCompute": {
      "isResponsible": boolean
    },
    "machineLearning": {
      "modelInference": {
        "isResponsible": boolean
      },
      "modelTraining": {
        "isResponsible": boolean
      },
      "syntheticDataGeneration": {
        "isResponsible": boolean
      }
    },
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "queryLogStatus": "string",
  "status": "string",
  "updateTime": number
}
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## membership

The membership retrieved for the provided identifier.

Type: [Membership](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetPrivacyBudgetTemplate

Returns details for a specified privacy budget template.

## Request Syntax

```
GET /memberships/membershipIdentifier/  
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "privacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [privacyBudgetTemplate](#)

Returns the details of the privacy budget template that you requested.

Type: [PrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetProtectedJob

Returns job processing metadata.

## Request Syntax

```
GET /memberships/membershipIdentifier/protectedJobs/protectedJobIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership in a protected job instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### protectedJobIdentifier

The identifier for the protected job instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "protectedJob": {
    "computeConfiguration": { ... },
    "createTime": number,
    "error": {
      "code": "string",
      "message": "string"
    },
    "id": "string",
    "jobComputePayerAccountId": "string",
    "jobParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
        "string" : "string"
      }
    },
    "membershipArn": "string",
    "membershipId": "string",
    "result": {
      "output": { ... }
    },
    "resultConfiguration": {
      "outputConfiguration": { ... }
    },
    "statistics": {
      "billedResourceUtilization": {
        "units": number
      },
      "totalDurationInMillis": number
    },
    "status": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### protectedJob

The protected job metadata.

Type: [ProtectedJob](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetProtectedQuery

Returns query processing metadata.

## Request Syntax

```
GET /memberships/membershipIdentifier/protectedQueries/protectedQueryIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership in a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### protectedQueryIdentifier

The identifier for a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"protectedQuery": {
  "computeConfiguration": { ... },
  "createTime": number,
  "differentialPrivacy": {
    "sensitivityParameters": [
      {
        "aggregationExpression": "string",
        "aggregationType": "string",
        "maxColumnValue": number,
        "minColumnValue": number,
        "userContributionLimit": number
      }
    ]
  },
  "error": {
    "code": "string",
    "message": "string"
  },
  "id": "string",
  "membershipArn": "string",
  "membershipId": "string",
  "queryComputePayerAccountId": "string",
  "result": {
    "output": { ... }
  },
  "resultConfiguration": {
    "outputConfiguration": { ... }
  },
  "sqlParameters": {
    "analysisTemplateArn": "string",
    "parameters": {
      "string" : "string"
    },
    "queryString": "string"
  },
  "statistics": {
    "billedResourceUtilization": {
      "units": number
    },
    "totalDurationInMillis": number
  },
  "status": "string"
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### protectedQuery

The query processing metadata.

Type: [ProtectedQuery](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetSchema

Retrieves the schema for a relation within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### name

The name of the relation to retrieve the schema for.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"schema": {
  "analysisMethod": "string",
  "analysisRuleTypes": [ "string" ],
  "collaborationArn": "string",
  "collaborationId": "string",
  "columns": [
    {
      "name": "string",
      "type": "string"
    }
  ],
  "createTime": number,
  "creatorAccountId": "string",
  "description": "string",
  "name": "string",
  "partitionKeys": [
    {
      "name": "string",
      "type": "string"
    }
  ],
  "resourceArn": "string",
  "schemaStatusDetails": [
    {
      "analysisRuleType": "string",
      "analysisType": "string",
      "configurations": [ "string" ],
      "reasons": [
        {
          "code": "string",
          "message": "string"
        }
      ],
      "status": "string"
    }
  ],
  "schemaTypeProperties": { ... },
  "selectedAnalysisMethods": [ "string" ],
  "type": "string",
  "updateTime": number
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [schema](#)

The entire schema object.

Type: [Schema](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetSchemaAnalysisRule

Retrieves a schema analysis rule.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas/name/analysisRule/type HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### name

The name of the schema to retrieve the analysis rule for.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### type

The type of the schema analysis rule to retrieve. Schema analysis rules are uniquely identified by a combination of the collaboration, the schema name, and their type.

Valid Values: AGGREGATION | LIST | CUSTOM | ID\_MAPPING\_TABLE

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "collaborationId": "string",
    "collaborationPolicy": { ... },
    "consolidatedPolicy": { ... },
    "createTime": number,
    "name": "string",
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

A specification about how data from the configured table can be used.

Type: [AnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAnalysisTemplates

Lists analysis templates that the caller owns.

## Request Syntax

```
GET /memberships/membershipIdentifier/analysistemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### [membershipIdentifier](#)

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "isSyntheticData": boolean,
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [analysisTemplateSummaries](#)

Lists analysis template metadata.

Type: Array of [AnalysisTemplateSummary](#) objects

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationAnalysisTemplates

Lists analysis templates within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/analysistemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationAnalysisTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "id": "string",
      "isSyntheticData": boolean,
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationAnalysisTemplateSummaries](#)

The metadata of the analysis template within a collaboration.

Type: Array of [CollaborationAnalysisTemplateSummary](#) objects

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationChangeRequests

Lists all change requests for a collaboration with pagination support. Returns change requests sorted by creation time.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/changeRequests?  
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier of the collaboration that the change request is made against.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results that are returned for an API request call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### status

A filter to only return change requests with the specified status.

Valid Values: PENDING | APPROVED | CANCELLED | DENIED | COMMITTED

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationChangeRequestSummaries": [
    {
      "approvals": {
        "string": {
          "status": "string"
        }
      },
      "changes": [
        {
          "specification": { ... },
          "specificationType": "string",
          "types": [ "string" ]
        }
      ],
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "isAutoApproved": boolean,
      "status": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## collaborationChangeRequestSummaries

The list of collaboration change request summaries.

Type: Array of [CollaborationChangeRequestSummary](#) objects

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationConfiguredAudienceModelAssociations

Lists configured audience model associations within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/configuredaudiencemodelassociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the configured audience model association belongs to. Accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationConfiguredAudienceModelAssociationSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationConfiguredAudienceModelAssociationSummaries](#)

The metadata of the configured audience model association within a collaboration.

Type: Array of [CollaborationConfiguredAudienceModelAssociationSummary](#) objects

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationIdNamespaceAssociations

Returns a list of the ID namespace associations in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/idnamespaceassociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The unique identifier of the collaboration that contains the ID namespace associations that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a `nextToken` even if the maximum results has not been met.>

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationIdNamespaceAssociationSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "id": "string",
      "inputReferenceConfig": {
        "inputReferenceArn": "string",
        "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
        "idNamespaceType": "string"
      },
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationIdNamespaceAssociationSummaries](#)

The summary information of the collaboration ID namespace associations that you requested.

Type: Array of [CollaborationIdNamespaceAssociationSummary](#) objects

### [nextToken](#)

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationPrivacyBudgets

Returns an array that summarizes each privacy budget in a specified collaboration. The summary includes the collaboration ARN, creation time, creating account, and privacy budget details.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/privacybudgets?  
accessBudgetResourceArn=accessBudgetResourceArn&maxResults=maxResults&nextToken=nextToken&privat  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### accessBudgetResourceArn

The Amazon Resource Name (ARN) of the Configured Table Association (ConfiguredTableAssociation) used to filter privacy budgets.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredtableassociation/[\d\w-]+`

### collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### privacyBudgetType

Specifies the type of the privacy budget.

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationPrivacyBudgetSummaries": [
    {
      "budget": { ... },
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "id": "string",
      "privacyBudgetTemplateArn": "string",
      "privacyBudgetTemplateId": "string",
      "type": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationPrivacyBudgetSummaries](#)

Summaries of the collaboration privacy budgets.

Type: Array of [CollaborationPrivacyBudgetSummary](#) objects

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationPrivacyBudgetTemplates

Returns an array that summarizes each privacy budget template in a specified collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/privacybudgettemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationPrivacyBudgetTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "id": "string",
      "privacyBudgetType": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationPrivacyBudgetTemplateSummaries](#)

An array that summarizes the collaboration privacy budget templates. The summary includes collaboration information, creation information, the privacy budget type.

Type: Array of [CollaborationPrivacyBudgetTemplateSummary](#) objects

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborations

Lists collaborations the caller owns, is active in, or has been invited to.

## Request Syntax

```
GET /collaborations?maxResults=maxResults&memberStatus=memberStatus&nextToken=nextToken  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### [memberStatus](#)

The caller's status in a collaboration.

Valid Values: INVITED | ACTIVE

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "collaborationList": [
    {
      "analyticsEngine": "string",
      "arn": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "creatorDisplayName": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "memberStatus": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationList

The list of collaborations.

Type: Array of [CollaborationSummary](#) objects

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

Caller does not have sufficient access to perform this action.

### reason

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConfiguredAudienceModelAssociations

Lists information about requested configured audience model associations.

## Request Syntax

```
GET /memberships/membershipIdentifier/configuredaudiencemodelassociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

A unique identifier for a membership that contains the configured audience model associations that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelAssociationSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "configuredAudienceModelArn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelAssociationSummaries](#)

Summaries of the configured audience model associations that you requested.

Type: Array of [ConfiguredAudienceModelAssociationSummary](#) objects

### [nextToken](#)

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConfiguredTableAssociations

Lists configured table associations for a membership.

## Request Syntax

```
GET /memberships/membershipIdentifier/configuredTableAssociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

A unique identifier for the membership to list configured table associations for. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTableAssociationSummaries": [
    {
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "configuredTableId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredTableAssociationSummaries](#)

The retrieved list of configured table associations.

Type: Array of [ConfiguredTableAssociationSummary](#) objects

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConfiguredTables

Lists configured tables.

## Request Syntax

```
GET /configuredTables?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTableSummaries": [
    {
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
    }
  ]
}
```

```
    "arn": "string",
    "createTime": number,
    "id": "string",
    "name": "string",
    "selectedAnalysisMethods": [ "string" ],
    "updateTime": number
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTableSummaries

The configured tables listed by the request.

Type: Array of [ConfiguredTableSummary](#) objects

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListIdMappingTables

Returns a list of ID mapping tables.

## Request Syntax

```
GET /memberships/membershipIdentifier/idmappingtables?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a `nextToken` even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The unique identifier of the membership that contains the ID mapping tables that you want to view.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "idMappingTableSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "inputReferenceConfig": {
        "inputReferenceArn": "string",
        "manageResourcePolicies": boolean
      },
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [idMappingTableSummaries](#)

The summary information of the ID mapping tables that you requested.

Type: Array of [IdMappingTableSummary](#) objects

### [nextToken](#)

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListIdNamespaceAssociations

Returns a list of ID namespace associations.

## Request Syntax

```
GET /memberships/membershipIdentifier/idnamespaceassociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a `nextToken` even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to view.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "idNamespaceAssociationSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "inputReferenceConfig": {
        "inputReferenceArn": "string",
        "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
        "idNamespaceType": "string"
      },
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [idNamespaceAssociationSummaries](#)

The summary information of the ID namespace associations that you requested.

Type: Array of [IdNamespaceAssociationSummary](#) objects

## nextToken

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListMembers

Lists all members within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/members?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier of the collaboration in which the members are listed.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "memberSummaries": [
    {
      "abilities": [ "string" ],
      "accountId": "string",
      "createTime": number,
      "displayName": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "mlAbilities": {
        "customMLMemberAbilities": [ "string" ]
      },
      "paymentConfiguration": {
        "jobCompute": {
          "isResponsible": boolean
        },
        "machineLearning": {
          "modelInference": {
            "isResponsible": boolean
          },
          "modelTraining": {
            "isResponsible": boolean
          },
          "syntheticDataGeneration": {
            "isResponsible": boolean
          }
        },
        "queryCompute": {
          "isResponsible": boolean
        }
      },
      "status": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### memberSummaries

The list of members returned by the ListMembers operation.

Type: Array of [MemberSummary](#) objects

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListMemberships

Lists all memberships resources within the caller's account.

## Request Syntax

```
GET /memberships?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### [status](#)

A filter which will return only memberships in the specified status.

Valid Values: ACTIVE | REMOVED | COLLABORATION\_DELETED

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"membershipSummaries": [
  {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "id": "string",
    "memberAbilities": [ "string" ],
    "mlMemberAbilities": {
      "customMLMemberAbilities": [ "string" ]
    },
    "paymentConfiguration": {
      "jobCompute": {
        "isResponsible": boolean
      },
      "machineLearning": {
        "modelInference": {
          "isResponsible": boolean
        },
        "modelTraining": {
          "isResponsible": boolean
        },
        "syntheticDataGeneration": {
          "isResponsible": boolean
        }
      },
      "queryCompute": {
        "isResponsible": boolean
      }
    },
    "status": "string",
    "updateTime": number
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### membershipSummaries

The list of memberships returned from the ListMemberships operation.

Type: Array of [MembershipSummary](#) objects

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

## fieldList

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListPrivacyBudgets

Returns detailed information about the privacy budgets in a specified membership.

## Request Syntax

```
GET /memberships/membershipIdentifier/privacybudgets?  
accessBudgetResourceArn=accessBudgetResourceArn&maxResults=maxResults&nextToken=nextToken&privac  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### accessBudgetResourceArn

The Amazon Resource Name (ARN) of the access budget resource to filter privacy budgets by.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/  
configuredtableassociation/[\d\w-]+`

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget is retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## privacyBudgetType

The privacy budget type.

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "privacyBudgetSummaries": [
    {
      "budget": { ... },
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "privacyBudgetTemplateArn": "string",
      "privacyBudgetTemplateId": "string",
      "type": "string",
      "updateTime": number
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

### privacyBudgetSummaries

An array that summarizes the privacy budgets. The summary includes collaboration information, membership information, privacy budget template information, and privacy budget details.

Type: Array of [PrivacyBudgetSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

## **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListPrivacyBudgetTemplates

Returns detailed information about the privacy budget templates in a specified membership.

## Request Syntax

```
GET /memberships/membershipIdentifier/privacybudgettemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget templates are retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "privacyBudgetTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "privacyBudgetType": "string",
      "updateTime": number
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

### privacyBudgetTemplateSummaries

An array that summarizes the privacy budget templates. The summary includes collaboration information, creation information, and privacy budget type.

Type: Array of [PrivacyBudgetTemplateSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

## reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListProtectedJobs

Lists protected jobs, sorted by most recent job.

## Request Syntax

```
GET /memberships/membershipIdentifier/protectedJobs?  
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The identifier for the membership in the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### status

A filter on the status of the protected job.

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "protectedJobs": [
    {
      "createTime": number,
      "id": "string",
      "jobComputePayerAccountId": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "receiverConfigurations": [
        {
          "analysisType": "string",
          "configurationDetails": { ... }
        }
      ],
      "status": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## protectedJobs

A list of protected job summaries.

Type: Array of [ProtectedJobSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListProtectedQueries

Lists protected queries, sorted by the most recent query.

## Request Syntax

```
GET /memberships/membershipIdentifier/protectedQueries?  
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The identifier for the membership in the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### status

A filter on the status of the protected query.

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED\_OUT

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "protectedQueries": [
    {
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "queryComputePayerAccountId": "string",
      "receiverConfigurations": [
        {
          "analysisType": "string",
          "configurationDetails": { ... }
        }
      ],
      "status": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## [protectedQueries](#)

A list of protected queries.

Type: Array of [ProtectedQuerySummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListSchemas

Lists the schemas for relations within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas?  
maxResults=maxResults&nextToken=nextToken&schemaType=schemaType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### schemaType

If present, filter schemas by schema type.

Valid Values: TABLE | ID\_MAPPING\_TABLE

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "schemaSummaries": [
    {
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "name": "string",
      "resourceArn": "string",
      "selectedAnalysisMethods": [ "string" ],
      "type": "string",
      "updateTime": number
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## [schemaSummaries](#)

The retrieved list of schemas.

Type: Array of [SchemaSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists all of the tags that have been added to a resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to list tags on.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### tags

A map of objects specifying each key name and value.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PopulateIdMappingTable

Defines the information that's necessary to populate an ID mapping table.

## Request Syntax

```
POST /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier/
populate HTTP/1.1
Content-type: application/json

{
  "jobType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### idMappingTableIdentifier

The unique identifier of the ID mapping table that you want to populate.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to populate.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## jobType

The job type of the rule-based ID mapping job. Valid values include:

**INCREMENTAL:** Processes only new or changed data since the last job run. This is the default job type if the ID mapping workflow was created in AWS Entity Resolution with `incrementalRunConfig` specified.

**BATCH:** Processes all data from the input source, regardless of previous job runs. This is the default job type if the ID mapping workflow was created in AWS Entity Resolution but `incrementalRunConfig` wasn't specified.

**DELETE\_ONLY:** Processes only deletion requests from `BatchDeleteUniqueId`, which is set in AWS Entity Resolution.

For more information about `incrementalRunConfig` and `BatchDeleteUniqueId`, see the [AWS Entity Resolution API Reference](#).

Type: String

Valid Values: BATCH | INCREMENTAL | DELETE\_ONLY

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "idMappingJobId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### idMappingJobId

The unique identifier of the mapping job that will populate the ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### reason

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### reason

A reason code for the exception.

#### resourceId

The ID of the conflicting resource.

#### resourceType

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

**quotaName**

The name of the quota.

**quotaValue**

The value of the quota.

HTTP Status Code: 402

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PreviewPrivacyImpact

An estimate of the number of aggregation functions that the member who can query can run given epsilon and noise parameters.

## Request Syntax

```
POST /memberships/membershipIdentifier/previewprivacyimpact HTTP/1.1
Content-type: application/json

{
  "parameters": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### parameters

Specifies the desired epsilon and noise parameters to preview.

Type: [PreviewPrivacyImpactParametersInput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "privacyImpact": { ... }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [privacyImpact](#)

An estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters. This does not change the privacy budget.

Type: [PrivacyImpact](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartProtectedJob

Creates a protected job that is started by AWS Clean Rooms.

## Request Syntax

```
POST /memberships/membershipIdentifier/protectedJobs HTTP/1.1
Content-type: application/json
```

```
{
  "computeConfiguration": { ... },
  "jobComputePayerAccountId": "string",
  "jobParameters": {
    "analysisTemplateArn": "string",
    "parameters": {
      "string" : "string"
    }
  },
  "resultConfiguration": {
    "outputConfiguration": { ... }
  },
  "type": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for the membership to run this job against. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## computeConfiguration

The compute configuration for the protected job.

Type: [ProtectedJobComputeConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## jobComputePayerAccountId

The account ID of the member that pays for the job compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

## jobParameters

The job parameters.

Type: [ProtectedJobParameters](#) object

Required: Yes

## resultConfiguration

The details needed to write the job results.

Type: [ProtectedJobResultConfigurationInput](#) object

Required: No

## type

The type of protected job to start.

Type: String

Valid Values: PYSPARK

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "protectedJob": {
    "computeConfiguration": { ... },
    "createTime": number,
    "error": {
      "code": "string",
      "message": "string"
    },
    "id": "string",
    "jobComputePayerAccountId": "string",
    "jobParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
        "string" : "string"
      }
    },
    "membershipArn": "string",
    "membershipId": "string",
    "result": {
      "output": { ... }
    },
    "resultConfiguration": {
      "outputConfiguration": { ... }
    },
    "statistics": {
      "billedResourceUtilization": {
        "units": number
      },
      "totalDurationInMillis": number
    },
    "status": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### protectedJob

The protected job.

Type: [ProtectedJob](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

**quotaName**

The name of the quota.

**quotaValue**

The value of the quota.

HTTP Status Code: 402

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartProtectedQuery

Creates a protected query that is started by AWS Clean Rooms.

## Request Syntax

```
POST /memberships/membershipIdentifier/protectedQueries HTTP/1.1
Content-type: application/json
```

```
{
  "computeConfiguration": { ... },
  "queryComputePayerAccountId": "string",
  "resultConfiguration": {
    "outputConfiguration": { ... }
  },
  "sqlParameters": {
    "analysisTemplateArn": "string",
    "parameters": {
      "string" : "string"
    },
    "queryString": "string"
  },
  "type": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for the membership to run this query against. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### computeConfiguration

The compute configuration for the protected query.

Type: [ComputeConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### queryComputePayerAccountId

The account ID of the member that pays for the query compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

### resultConfiguration

The details needed to write the query results.

Type: [ProtectedQueryResultConfiguration](#) object

Required: No

### sqlParameters

The protected SQL query parameters.

Type: [ProtectedQuerySQLParameters](#) object

Required: Yes

### type

The type of the protected query to be started.

Type: String

Valid Values: SQL

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "protectedQuery": {
    "computeConfiguration": { ... },
    "createTime": number,
    "differentialPrivacy": {
      "sensitivityParameters": [
        {
          "aggregationExpression": "string",
          "aggregationType": "string",
          "maxColumnValue": number,
          "minColumnValue": number,
          "userContributionLimit": number
        }
      ]
    },
    "error": {
      "code": "string",
      "message": "string"
    },
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "queryComputePayerAccountId": "string",
    "result": {
      "output": { ... }
    },
    "resultConfiguration": {
      "outputConfiguration": { ... }
    },
    "sqlParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
```

```
    "string" : "string"
  },
  "queryString": "string"
},
"statistics": {
  "billedResourceUtilization": {
    "units": number
  },
  "totalDurationInMillis": number
},
"status": "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [protectedQuery](#)

The protected query.

Type: [ProtectedQuery](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Tags a resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [resourceArn](#)

The Amazon Resource Name (ARN) associated with the resource you want to tag.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### [tags](#)

A map of objects specifying each key name and value.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes a tag or list of tags from a resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to remove the tag from.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

### tagKeys

A list of key names of tags to be removed.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### ResourceNotFoundException

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateAnalysisTemplate

Updates the analysis template metadata.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/analysis/templates/analysisTemplateIdentifier
HTTP/1.1
Content-type: application/json

{
  "description": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## description

A new description for the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisTemplate": {
    "analysisParameters": [
      {
        "defaultValue": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "errorMessageConfiguration": {
      "type": "string"
    },
    "format": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "schema": {
      "referencedTables": [ "string" ]
    },
    "source": { ... },
```

```
"sourceMetadata": { ... },
"syntheticDataParameters": { ... },
"updateTime": number,
"validations": [
  {
    "reasons": [
      {
        "message": "string"
      }
    ],
    "status": "string",
    "type": "string"
  }
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisTemplate

The analysis template.

Type: [AnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateCollaboration

Updates collaboration metadata and can only be called by the collaboration owner.

## Request Syntax

```
PATCH /collaborations/collaborationIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "analyticsEngine": "string",
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analyticsEngine

The analytics engine.

#### Note

After July 16, 2025, the CLEAN\_ROOMS\_SQL parameter will no longer be available.

Type: String

Valid Values: SPARK | CLEAN\_ROOMS\_SQL

Required: No

### description

A description of the collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]\*

Required: No

### name

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaboration": {
    "allowedResultRegions": [ "string" ],
    "analyticsEngine": "string",
    "arn": "string",
```

```
"autoApprovedChangeTypes": [ "string" ],
"createTime": number,
"creatorAccountId": "string",
"creatorDisplayName": "string",
"dataEncryptionMetadata": {
  "allowCleartext": boolean,
  "allowDuplicates": boolean,
  "allowJoinsOnColumnsWithDifferentNames": boolean,
  "preserveNulls": boolean
},
"description": "string",
"id": "string",
"isMetricsEnabled": boolean,
"jobLogStatus": "string",
"membershipArn": "string",
"membershipId": "string",
"memberStatus": "string",
"name": "string",
"queryLogStatus": "string",
"updateTime": number
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaboration

The entire collaboration that has been updated.

Type: [Collaboration](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateCollaborationChangeRequest

Updates an existing collaboration change request. This operation allows approval actions for pending change requests in collaborations (APPROVE, DENY, CANCEL, COMMIT).

For change requests without automatic approval, a member in the collaboration can manually APPROVE or DENY a change request. The collaboration owner can manually CANCEL or COMMIT a change request.

## Request Syntax

```
PATCH /collaborations/collaborationIdentifier/changeRequests/changeRequestIdentifier
HTTP/1.1
Content-type: application/json

{
  "action": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### changeRequestIdentifier

The unique identifier of the specific change request to be updated within the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### collaborationIdentifier

The unique identifier of the collaboration that contains the change request to be updated.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### action

The action to perform on the change request. Valid values include APPROVE (approve the change), DENY (reject the change), CANCEL (cancel the request), and COMMIT (commit after the request is approved).

For change requests without automatic approval, a member in the collaboration can manually APPROVE or DENY a change request. The collaboration owner can manually CANCEL or COMMIT a change request.

Type: String

Valid Values: APPROVE | DENY | CANCEL | COMMIT

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationChangeRequest": {
    "approvals": {
      "string" : {
        "status": "string"
      }
    },
    "changes": [
      {
        "specification": { ... },
        "specificationType": "string",
        "types": [ "string" ]
      }
    ],
  },
}
```

```
"collaborationId": "string",  
"createTime": number,  
"id": "string",  
"isAutoApproved": boolean,  
"status": "string",  
"updateTime": number  
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationChangeRequest

Represents a request to modify a collaboration. Change requests enable structured modifications to collaborations after they have been created.

Type: [CollaborationChangeRequest](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### reason

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### reason

A reason code for the exception.

**resourceId**

The ID of the conflicting resource.

**resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConfiguredAudienceModelAssociation

Provides the details necessary to update a configured audience model association.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

A unique identifier of the membership that contains the configured audience model association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A new description for the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

A new name for the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
```

```
"manageResourcePolicies": boolean,  
"membershipArn": "string",  
"membershipId": "string",  
"name": "string",  
"updateTime": number  
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelAssociation](#)

Details about the configured audience model association that you updated.

Type: [ConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConfiguredTable

Updates a configured table.

## Request Syntax

```
PATCH /configuredTables/configuredTableIdentifier HTTP/1.1  
Content-type: application/json
```

```
{  
  "allowedColumns": [ "string" ],  
  "analysisMethod": "string",  
  "description": "string",  
  "name": "string",  
  "selectedAnalysisMethods": [ "string" ],  
  "tableReference": { ... }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The identifier for the configured table to update. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### allowedColumns

The columns of the underlying table that can be used by collaborations or analysis rules.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]+([a-z0-9_]+)*([a-z0-9_]+)?`

Required: No

### analysisMethod

The analysis method for the configured table.

DIRECT\_QUERY allows SQL queries to be run directly on this table.

DIRECT\_JOB allows PySpark jobs to be run directly on this table.

MULTIPLE allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: DIRECT\_QUERY | DIRECT\_JOB | MULTIPLE

Required: No

### description

A new description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

A new name for the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

### selectedAnalysisMethods

The selected analysis methods for the table configuration update.

Type: Array of strings

Valid Values: DIRECT\_QUERY | DIRECT\_JOB

Required: No

### tableReference

A pointer to the dataset that underlies this table.

Type: [TableReference](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTable": {
    "allowedColumns": [ "string" ],
    "analysisMethod": "string",
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "name": "string",
    "selectedAnalysisMethods": [ "string" ],
    "tableReference": { ... },
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTable

The updated configured table.

Type: [ConfiguredTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

#### **quotaName**

The name of the quota.

#### **quotaValue**

The value of the quota.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConfiguredTableAnalysisRule

Updates a configured table analysis rule.

## Request Syntax

```
PATCH /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType
HTTP/1.1
Content-type: application/json

{
  "analysisRulePolicy": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [analysisRuleType](#)

The analysis rule type to be updated. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### [configuredTableIdentifier](#)

The unique identifier for the configured table that the analysis rule applies to. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## [analysisRulePolicy](#)

The new analysis rule policy for the configured table analysis rule.

Type: [ConfiguredTableAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [analysisRule](#)

The entire updated analysis rule.

Type: [ConfiguredTableAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

### **reason**

A reason code for the exception.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

### **reason**

A reason code for the exception.

### **resourceId**

The ID of the conflicting resource.

### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### fieldList

Validation errors for specific input parameters.

### reason

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConfiguredTableAssociation

Updates a configured table association.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1  
Content-type: application/json
```

```
{  
  "description": "string",  
  "roleArn": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableAssociationIdentifier

The unique identifier for the configured table association to update. Currently accepts the configured table association ID.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

The unique ID for the membership that the configured table association belongs to.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## description

A new description for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## roleArn

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTableAssociation": {
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "roleArn": "string",
    "updateTime": number
  }
}
```

```
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredTableAssociation](#)

The entire updated configured table association.

Type: [ConfiguredTableAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConfiguredTableAssociationAnalysisRule

Updates the analysis rule for a configured table association.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier/
analysisRule/analysisRuleType HTTP/1.1
Content-type: application/json

{
  "analysisRulePolicy": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisRuleType

The analysis rule type that you want to update.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### configuredTableAssociationIdentifier

The identifier for the configured table association to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analysisRulePolicy

The updated analysis rule policy for the configured table association.

Type: [ConfiguredTableAssociationAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "configuredTableAssociationArn": "string",
    "configuredTableAssociationId": "string",
    "createTime": number,
    "membershipIdentifier": "string",
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## analysisRule

The updated analysis rule for the configured table association. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

Type: [ConfiguredTableAssociationAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateIdMappingTable

Provides the details that are necessary to update an ID mapping table.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier
HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "kmsKeyArn": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### idMappingTableIdentifier

The unique identifier of the ID mapping table that you want to update.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to update.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.



```
    {
      "idNamespaceAssociationId": "string",
      "type": "string"
    }
  ],
  "kmsKeyArn": "string",
  "membershipArn": "string",
  "membershipId": "string",
  "name": "string",
  "updateTime": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### idMappingTable

The updated ID mapping table.

Type: [IdMappingTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

#### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

#### **fieldList**

Validation errors for specific input parameters.

#### **reason**

A reason code for the exception.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateIdNamespaceAssociation

Provides the details that are necessary to update an ID namespace association.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "idMappingConfig": {
    "allowUseAsDimensionColumn": boolean
  },
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A new description for the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### idMappingConfig

The configuration settings for the ID mapping table.

Type: [IdMappingConfig](#) object

Required: No

### name

A new name for the ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "idNamespaceAssociation": {
    "arn": "string",
```

```
"collaborationArn": "string",
"collaborationId": "string",
"createTime": number,
"description": "string",
"id": "string",
"idMappingConfig": {
  "allowUseAsDimensionColumn": boolean
},
"inputReferenceConfig": {
  "inputReferenceArn": "string",
  "manageResourcePolicies": boolean
},
"inputReferenceProperties": {
  "idMappingWorkflowsSupported": [ JSON value ],
  "idNamespaceType": "string"
},
"membershipArn": "string",
"membershipId": "string",
"name": "string",
"updateTime": number
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [idNamespaceAssociation](#)

The updated ID namespace association.

Type: [IdNamespaceAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

**reason**

A reason code for the exception.

HTTP Status Code: 403

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateMembership

Updates a membership.

## Request Syntax

```
PATCH /memberships/membershipIdentifier HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "defaultJobResultConfiguration": {
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "defaultResultConfiguration": {
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "jobLogStatus": "string",
  "membershipPaymentConfiguration": {
    "jobCompute": {
      "isResponsible": boolean
    },
    "machineLearning": {
      "modelInference": {
        "isResponsible": boolean
      },
      "modelTraining": {
        "isResponsible": boolean
      },
      "syntheticDataGeneration": {
        "isResponsible": boolean
      }
    },
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "queryLogStatus": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The unique identifier of the membership.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### defaultJobResultConfiguration

The default job result configuration.

Type: [MembershipProtectedJobResultConfiguration](#) object

Required: No

### defaultResultConfiguration

The default protected query result configuration as specified by the member who can receive results.

Type: [MembershipProtectedQueryResultConfiguration](#) object

Required: No

### jobLogStatus

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When ENABLED, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

### [membershipPaymentConfiguration](#)

The payment configuration to update for the membership.

Type: [UpdateMembershipPaymentConfiguration](#) object

Required: No

### [queryLogStatus](#)

An indicator as to whether query logging has been enabled or disabled for the membership.

When ENABLED, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "membership": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "defaultJobResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
    },
    "defaultResultConfiguration": {
      "outputConfiguration": { ... },
```

```

    "roleArn": "string"
  },
  "id": "string",
  "isMetricsEnabled": boolean,
  "jobLogStatus": "string",
  "memberAbilities": [ "string" ],
  "mlMemberAbilities": {
    "customMLMemberAbilities": [ "string" ]
  },
  "paymentConfiguration": {
    "jobCompute": {
      "isResponsible": boolean
    },
    "machineLearning": {
      "modelInference": {
        "isResponsible": boolean
      },
      "modelTraining": {
        "isResponsible": boolean
      },
      "syntheticDataGeneration": {
        "isResponsible": boolean
      }
    },
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "queryLogStatus": "string",
  "status": "string",
  "updateTime": number
}
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### membership

The membership object.

Type: [Membership](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

#### **resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdatePrivacyBudgetTemplate

Updates the privacy budget template for the specified collaboration.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "parameters": { ... },
  "privacyBudgetType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [membershipIdentifier](#)

A unique identifier for one of your memberships for a collaboration. The privacy budget template is updated in the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### [privacyBudgetTemplateIdentifier](#)

A unique identifier for your privacy budget template that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### parameters

Specifies the epsilon and noise parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateUpdateParameters](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### privacyBudgetType

Specifies the type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "privacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [privacyBudgetTemplate](#)

Summary of the privacy budget template.

Type: [PrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

#### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

### **reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateProtectedJob

Updates the processing of a currently running job.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/protectedJobs/protectedJobIdentifier HTTP/1.1  
Content-type: application/json
```

```
{  
  "targetStatus": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a member of a protected job instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### protectedJobIdentifier

The identifier of the protected job to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## targetStatus

The target status of a protected job. Used to update the execution status of a currently running job.

Type: String

Valid Values: CANCELLED

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "protectedJob": {
    "computeConfiguration": { ... },
    "createTime": number,
    "error": {
      "code": "string",
      "message": "string"
    },
    "id": "string",
    "jobComputePayerAccountId": "string",
    "jobParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
        "string": "string"
      }
    },
    "membershipArn": "string",
    "membershipId": "string",
    "result": {
      "output": { ... }
    },
    "resultConfiguration": {
      "outputConfiguration": { ... }
    },
    "statistics": {
      "billedResourceUtilization": {
        "units": number
      }
    }
  }
}
```

```
    },
    "totalDurationInMillis": number
  },
  "status": "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### protectedJob

The protected job output.

Type: [ProtectedJob](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

#### **reason**

A reason code for the exception.

#### **resourceId**

The ID of the conflicting resource.

**resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

**InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

**ResourceNotFoundException**

Request references a resource which does not exist.

**resourceId**

The Id of the missing resource.

**resourceType**

The type of the missing resource.

HTTP Status Code: 404

**ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the specified constraints.

**fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateProtectedQuery

Updates the processing of a currently running query.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/protectedQueries/protectedQueryIdentifier
HTTP/1.1
Content-type: application/json

{
  "targetStatus": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a member of a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### protectedQueryIdentifier

The identifier for a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## targetStatus

The target status of a query. Used to update the execution status of a currently running query.

Type: String

Valid Values: CANCELLED

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "protectedQuery": {
    "computeConfiguration": { ... },
    "createTime": number,
    "differentialPrivacy": {
      "sensitivityParameters": [
        {
          "aggregationExpression": "string",
          "aggregationType": "string",
          "maxColumnValue": number,
          "minColumnValue": number,
          "userContributionLimit": number
        }
      ]
    },
    "error": {
      "code": "string",
      "message": "string"
    },
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "queryComputePayerAccountId": "string",
    "result": {
      "output": { ... }
    },
    "resultConfiguration": {
      "outputConfiguration": { ... }
    }
  }
}
```

```
    },
    "sqlParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
        "string": "string"
      },
      "queryString": "string"
    },
    "statistics": {
      "billedResourceUtilization": {
        "units": number
      },
      "totalDurationInMillis": number
    },
    "status": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### protectedQuery

The protected query output.

Type: [ProtectedQuery](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

#### **reason**

A reason code for the exception.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

### **reason**

A reason code for the exception.

### **resourceId**

The ID of the conflicting resource.

### **resourceType**

The type of the conflicting resource.

HTTP Status Code: 409

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

### **resourceId**

The Id of the missing resource.

### **resourceType**

The type of the missing resource.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

### **fieldList**

Validation errors for specific input parameters.

**reason**

A reason code for the exception.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The AWS Clean Rooms Service API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AccessBudget](#)
- [AccessBudgetDetails](#)
- [AccessBudgetsPrivacyTemplateParametersInput](#)
- [AccessBudgetsPrivacyTemplateParametersOutput](#)
- [AccessBudgetsPrivacyTemplateUpdateParameters](#)
- [AggregateColumn](#)
- [AggregationConstraint](#)
- [AnalysisParameter](#)
- [AnalysisRule](#)
- [AnalysisRuleAggregation](#)
- [AnalysisRuleCustom](#)
- [AnalysisRuleIdMappingTable](#)
- [AnalysisRuleList](#)
- [AnalysisRulePolicy](#)
- [AnalysisRulePolicyV1](#)
- [AnalysisSchema](#)
- [AnalysisSource](#)
- [AnalysisSourceMetadata](#)
- [AnalysisTemplate](#)
- [AnalysisTemplateArtifact](#)

- [AnalysisTemplateArtifactMetadata](#)
- [AnalysisTemplateArtifacts](#)
- [AnalysisTemplateSummary](#)
- [AnalysisTemplateValidationStatusDetail](#)
- [AnalysisTemplateValidationStatusReason](#)
- [ApprovalStatusDetails](#)
- [AthenaTableReference](#)
- [BatchGetCollaborationAnalysisTemplateError](#)
- [BatchGetSchemaAnalysisRuleError](#)
- [BatchGetSchemaError](#)
- [BilledJobResourceUtilization](#)
- [BilledResourceUtilization](#)
- [BudgetParameter](#)
- [Change](#)
- [ChangeInput](#)
- [ChangeSpecification](#)
- [Collaboration](#)
- [CollaborationAnalysisTemplate](#)
- [CollaborationAnalysisTemplateSummary](#)
- [CollaborationChangeRequest](#)
- [CollaborationChangeRequestSummary](#)
- [CollaborationChangeSpecification](#)
- [CollaborationConfiguredAudienceModelAssociation](#)
- [CollaborationConfiguredAudienceModelAssociationSummary](#)
- [CollaborationIdNamespaceAssociation](#)
- [CollaborationIdNamespaceAssociationSummary](#)
- [CollaborationPrivacyBudgetSummary](#)
- [CollaborationPrivacyBudgetTemplate](#)
- [CollaborationPrivacyBudgetTemplateSummary](#)
- [CollaborationSummary](#)

- [Column](#)
- [ColumnClassificationDetails](#)
- [ComputeConfiguration](#)
- [ConfigurationDetails](#)
- [ConfiguredAudienceModelAssociation](#)
- [ConfiguredAudienceModelAssociationSummary](#)
- [ConfiguredTable](#)
- [ConfiguredTableAnalysisRule](#)
- [ConfiguredTableAnalysisRulePolicy](#)
- [ConfiguredTableAnalysisRulePolicyV1](#)
- [ConfiguredTableAssociation](#)
- [ConfiguredTableAssociationAnalysisRule](#)
- [ConfiguredTableAssociationAnalysisRuleAggregation](#)
- [ConfiguredTableAssociationAnalysisRuleCustom](#)
- [ConfiguredTableAssociationAnalysisRuleList](#)
- [ConfiguredTableAssociationAnalysisRulePolicy](#)
- [ConfiguredTableAssociationAnalysisRulePolicyV1](#)
- [ConfiguredTableAssociationSummary](#)
- [ConfiguredTableSummary](#)
- [ConsolidatedPolicy](#)
- [ConsolidatedPolicyAggregation](#)
- [ConsolidatedPolicyCustom](#)
- [ConsolidatedPolicyList](#)
- [ConsolidatedPolicyV1](#)
- [DataEncryptionMetadata](#)
- [DifferentialPrivacyColumn](#)
- [DifferentialPrivacyConfiguration](#)
- [DifferentialPrivacyParameters](#)
- [DifferentialPrivacyPreviewAggregation](#)
- [DifferentialPrivacyPreviewParametersInput](#)

- [DifferentialPrivacyPrivacyBudget](#)
- [DifferentialPrivacyPrivacyBudgetAggregation](#)
- [DifferentialPrivacyPrivacyImpact](#)
- [DifferentialPrivacySensitivityParameters](#)
- [DifferentialPrivacyTemplateParametersInput](#)
- [DifferentialPrivacyTemplateParametersOutput](#)
- [DifferentialPrivacyTemplateUpdateParameters](#)
- [DirectAnalysisConfigurationDetails](#)
- [ErrorMessageConfiguration](#)
- [GlueTableReference](#)
- [Hash](#)
- [IdMappingConfig](#)
- [IdMappingTable](#)
- [IdMappingTableInputReferenceConfig](#)
- [IdMappingTableInputReferenceProperties](#)
- [IdMappingTableInputSource](#)
- [IdMappingTableSchemaTypeProperties](#)
- [IdMappingTableSummary](#)
- [IdNamespaceAssociation](#)
- [IdNamespaceAssociationInputReferenceConfig](#)
- [IdNamespaceAssociationInputReferenceProperties](#)
- [IdNamespaceAssociationInputReferencePropertiesSummary](#)
- [IdNamespaceAssociationSummary](#)
- [JobComputePaymentConfig](#)
- [MemberChangeSpecification](#)
- [Membership](#)
- [MembershipJobComputePaymentConfig](#)
- [MembershipMLPaymentConfig](#)
- [MembershipModelInferencePaymentConfig](#)
- [MembershipModelTrainingPaymentConfig](#)

- [MembershipPaymentConfiguration](#)
- [MembershipProtectedJobOutputConfiguration](#)
- [MembershipProtectedJobResultConfiguration](#)
- [MembershipProtectedQueryOutputConfiguration](#)
- [MembershipProtectedQueryResultConfiguration](#)
- [MembershipQueryComputePaymentConfig](#)
- [MembershipSummary](#)
- [MembershipSyntheticDataGenerationPaymentConfig](#)
- [MemberSpecification](#)
- [MemberSummary](#)
- [MLMemberAbilities](#)
- [MLPaymentConfig](#)
- [MLSyntheticDataParameters](#)
- [ModelInferencePaymentConfig](#)
- [ModelTrainingPaymentConfig](#)
- [PaymentConfiguration](#)
- [PreviewPrivacyImpactParametersInput](#)
- [PrivacyBudget](#)
- [PrivacyBudgetSummary](#)
- [PrivacyBudgetTemplate](#)
- [PrivacyBudgetTemplateParametersInput](#)
- [PrivacyBudgetTemplateParametersOutput](#)
- [PrivacyBudgetTemplateSummary](#)
- [PrivacyBudgetTemplateUpdateParameters](#)
- [PrivacyImpact](#)
- [ProtectedJob](#)
- [ProtectedJobComputeConfiguration](#)
- [ProtectedJobConfigurationDetails](#)
- [ProtectedJobDirectAnalysisConfigurationDetails](#)
- [ProtectedJobError](#)

- [ProtectedJobMemberOutputConfigurationInput](#)
- [ProtectedJobMemberOutputConfigurationOutput](#)
- [ProtectedJobOutput](#)
- [ProtectedJobOutputConfigurationInput](#)
- [ProtectedJobOutputConfigurationOutput](#)
- [ProtectedJobParameters](#)
- [ProtectedJobReceiverConfiguration](#)
- [ProtectedJobResult](#)
- [ProtectedJobResultConfigurationInput](#)
- [ProtectedJobResultConfigurationOutput](#)
- [ProtectedJobS3Output](#)
- [ProtectedJobS3OutputConfigurationInput](#)
- [ProtectedJobS3OutputConfigurationOutput](#)
- [ProtectedJobSingleMemberOutput](#)
- [ProtectedJobStatistics](#)
- [ProtectedJobSummary](#)
- [ProtectedJobWorkerComputeConfiguration](#)
- [ProtectedQuery](#)
- [ProtectedQueryDistributeOutput](#)
- [ProtectedQueryDistributeOutputConfiguration](#)
- [ProtectedQueryDistributeOutputConfigurationLocation](#)
- [ProtectedQueryError](#)
- [ProtectedQueryMemberOutputConfiguration](#)
- [ProtectedQueryOutput](#)
- [ProtectedQueryOutputConfiguration](#)
- [ProtectedQueryResult](#)
- [ProtectedQueryResultConfiguration](#)
- [ProtectedQueryS3Output](#)
- [ProtectedQueryS3OutputConfiguration](#)
- [ProtectedQuerySingleMemberOutput](#)

- [ProtectedQuerySQLParameters](#)
- [ProtectedQueryStatistics](#)
- [ProtectedQuerySummary](#)
- [QueryComputePaymentConfig](#)
- [QueryConstraint](#)
- [QueryConstraintRequireOverlap](#)
- [ReceiverConfiguration](#)
- [S3Location](#)
- [Schema](#)
- [SchemaAnalysisRuleRequest](#)
- [SchemaStatusDetail](#)
- [SchemaStatusReason](#)
- [SchemaSummary](#)
- [SchemaTypeProperties](#)
- [SnowflakeTableReference](#)
- [SnowflakeTableSchema](#)
- [SnowflakeTableSchemaV1](#)
- [SyntheticDataColumnProperties](#)
- [SyntheticDataGenerationPaymentConfig](#)
- [SyntheticDataParameters](#)
- [TableReference](#)
- [UpdateMembershipPaymentConfiguration](#)
- [ValidationExceptionField](#)
- [WorkerComputeConfiguration](#)
- [WorkerComputeConfigurationProperties](#)

# AccessBudget

Controls and tracks usage limits for associated configured tables within a collaboration across queries and job. Supports both period-based budgets that can renew (daily, weekly, or monthly) and fixed lifetime budgets. Contains the resource ARN, remaining budget information, and up to two budget configurations (period-based and lifetime). By default, table usage is unlimited unless a budget is configured.

## Contents

### `aggregateRemainingBudget`

The total remaining budget across all budget parameters, showing the lower value between the per-period budget and lifetime budget for this access budget. For individual parameter budgets, see `remainingBudget`.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### `details`

Detailed budget information including time bounds, remaining budget, and refresh settings.

Type: Array of [AccessBudgetDetails](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

### `resourceArn`

The Amazon Resource Name (ARN) of the access budget resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredtableassociation/[\d\w-]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AccessBudgetDetails

Detailed information about an access budget including time bounds, budget allocation, and configuration settings.

## Contents

### budget

The total budget allocation amount for this access budget.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000000.

Required: Yes

### budgetType

Specifies the time period for limiting table usage in queries and jobs. For calendar-based periods, the budget can renew if auto refresh is enabled. For lifetime budgets, the limit applies to the total usage throughout the collaboration. Valid values are:

CALENDAR\_DAY - Limit table usage per day.

CALENDAR\_WEEK - Limit table usage per week.

CALENDAR\_MONTH - Limit table usage per month.

LIFETIME - Limit total table usage for the collaboration duration.

Type: String

Valid Values: CALENDAR\_DAY | CALENDAR\_MONTH | CALENDAR\_WEEK | LIFETIME

Required: Yes

### remainingBudget

The remaining budget amount available for use within this access budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### **startTime**

The start time for the access budget period.

Type: Timestamp

Required: Yes

### **autoRefresh**

Indicates whether the budget automatically refreshes for each time period specified in `budgetType`. Valid values are:

ENABLED - The budget refreshes automatically at the start of each period.

DISABLED - The budget must be refreshed manually.

NULL - The value is null when `budgetType` is set to LIFETIME.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

### **endTime**

The end time for the access budget period.

Type: Timestamp

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# AccessBudgetsPrivacyTemplateParametersInput

Input parameters for privacy budget templates that support access budgets functionality, enabling enhanced budget management capabilities.

## Contents

### budgetParameters

An array of budget parameters that define the access budget configuration for the privacy template.

Type: Array of [BudgetParameter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

### resourceArn

The Amazon Resource Name (ARN) of the resource associated with this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredtableassociation/[\d\w-]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# AccessBudgetsPrivacyTemplateParametersOutput

Output parameters for privacy budget templates with access budgets support, containing the configured budget information.

## Contents

### budgetParameters

An array of budget parameters returned from the access budget configuration.

Type: Array of [BudgetParameter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

### resourceArn

The Amazon Resource Name (ARN) of the resource associated with this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredtableassociation/[\d\w-]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AccessBudgetsPrivacyTemplateUpdateParameters

Update parameters for privacy budget templates with access budgets functionality, allowing modification of existing budget configurations.

## Contents

### budgetParameters

Updated array of budget parameters for the access budget configuration.

Type: Array of [BudgetParameter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AggregateColumn

Column in configured table that can be used in aggregate function in query.

## Contents

### columnNames

Column names in configured table of aggregate columns.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### function

Aggregation function that can be applied to aggregate column in query.

Type: String

Valid Values: SUM | SUM\_DISTINCT | COUNT | COUNT\_DISTINCT | AVG

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AggregationConstraint

Constraint on query output removing output rows that do not meet a minimum number of distinct values of a specified column.

## Contents

### columnName

Column in aggregation constraint for which there must be a minimum number of distinct values in an output row for it to be in the query output.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### minimum

The minimum number of distinct values that an output row must be an aggregation of. Minimum threshold of distinct values for a specified column that must exist in an output row for it to be in the query output.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 100000.

Required: Yes

### type

The type of aggregation the constraint allows. The only valid value is currently `COUNT_DISTINCT``.

Type: String

Valid Values: COUNT\_DISTINCT

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisParameter

Optional. The member who can query can provide this placeholder for a literal data value in an analysis template.

## Contents

### name

The name of the parameter. The name must use only alphanumeric or underscore ( `_` ) characters.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[0-9a-zA-Z_]+`

Required: Yes

### type

The type of parameter.

Type: String

Valid Values: SMALLINT | INTEGER | BIGINT | DECIMAL | REAL | DOUBLE\_PRECISION | BOOLEAN | CHAR | VARCHAR | DATE | TIMESTAMP | TIMESTAMPTZ | TIME | TIMETZ | VARBYTE | BINARY | BYTE | CHARACTER | DOUBLE | FLOAT | INT | LONG | NUMERIC | SHORT | STRING | TIMESTAMP\_LTZ | TIMESTAMP\_NTZ | TINYINT

Required: Yes

### defaultValue

Optional. The default value that is applied in the analysis template. The member who can query can override this value in the query editor.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRule

A specification about how data from the configured table can be used in a query.

## Contents

### collaborationId

The unique ID for the associated collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time the analysis rule was created.

Type: Timestamp

Required: Yes

### name

The name for the analysis rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### policy

A policy that describes the associated data usage limitations.

Type: [AnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## type

The type of analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM | ID\_MAPPING\_TABLE

Required: Yes

## updateTime

The time the analysis rule was last updated.

Type: Timestamp

Required: Yes

## collaborationPolicy

Controls on the query specifications that can be run on an associated configured table.

Type: [ConfiguredTableAssociationAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## consolidatedPolicy

The consolidated policy for the analysis rule.

Type: [ConsolidatedPolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRuleAggregation

A type of analysis rule that enables query structure and specified queries that produce aggregate statistics.

## Contents

### aggregateColumns

The columns that query runners are allowed to use in aggregation queries.

Type: Array of [AggregateColumn](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### dimensionColumns

The columns that query runners are allowed to select, group by, or filter by.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+- )*( [a-z0-9_ ]+ ) )?`

Required: Yes

### joinColumns

Columns in configured table that can be used in join statements and/or as aggregate columns. They can never be outputted directly.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+- )*( [a-z0-9_ ]+ ) )?`

Required: Yes

### outputConstraints

Columns that must meet a specific threshold value (after an aggregation function is applied to it) for each output row to be returned.

Type: Array of [AggregationConstraint](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### **scalarFunctions**

Set of scalar functions that are allowed to be used on dimension columns and the output of aggregation of metrics.

Type: Array of strings

Valid Values: ABS | CAST | CEILING | COALESCE | CONVERT | CURRENT\_DATE | DATEADD | EXTRACT | FLOOR | GETDATE | LN | LOG | LOWER | ROUND | RTRIM | SQRT | SUBSTRING | TO\_CHAR | TO\_DATE | TO\_NUMBER | TO\_TIMESTAMP | TRIM | TRUNC | UPPER

Required: Yes

### **additionalAnalyses**

An indicator as to whether additional analyses (such as AWS Clean Rooms ML) can be applied to the output of the direct query.

The `additionalAnalyses` parameter is currently supported for the list analysis rule (`AnalysisRuleList`) and the custom analysis rule (`AnalysisRuleCustom`).

Type: String

Valid Values: ALLOWED | REQUIRED | NOT\_ALLOWED

Required: No

### **allowedJoinOperators**

Which logical operators (if any) are to be used in an INNER JOIN match condition. Default is AND.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: OR | AND

Required: No

## **joinRequired**

Control that requires member who runs query to do a join with their configured table and/or other configured table in query.

Type: String

Valid Values: QUERY\_RUNNER

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRuleCustom

A type of analysis rule that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy.

## Contents

### allowedAnalyses

The ARN of the analysis templates that are allowed by the custom analysis rule.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `(ANY_QUERY|ANY_JOB|arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+)`

Required: Yes

### additionalAnalyses

An indicator as to whether additional analyses (such as AWS Clean Rooms ML) can be applied to the output of the direct query.

Type: String

Valid Values: ALLOWED | REQUIRED | NOT\_ALLOWED

Required: No

### allowedAnalysisProviders

The IDs of the AWS accounts that are allowed to query by the custom analysis rule. Required when `allowedAnalyses` is `ANY_QUERY`.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

### **differentialPrivacy**

The differential privacy configuration.

Type: [DifferentialPrivacyConfiguration](#) object

Required: No

### **disallowedOutputColumns**

A list of columns that aren't allowed to be shown in the query output.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+ )+ )*( [a-z0-9_ ]+ )?`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRuleIdMappingTable

Defines details for the analysis rule ID mapping table.

## Contents

### joinColumns

The columns that query runners are allowed to use in an INNER JOIN statement.

Type: Array of strings

Array Members: Fixed number of 2 items.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### queryConstraints

The query constraints of the analysis rule ID mapping table.

Type: Array of [QueryConstraint](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: Yes

### dimensionColumns

The columns that query runners are allowed to select, group by, or filter by.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRuleList

A type of analysis rule that enables row-level analysis.

## Contents

### joinColumns

Columns that can be used to join a configured table with the table of the member who can query and other members' configured tables.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]+([a-z0-9_]+)*([a-z0-9_]+)?`

Required: Yes

### listColumns

Columns that can be listed in the output.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]+([a-z0-9_]+)*([a-z0-9_]+)?`

Required: Yes

### additionalAnalyses

An indicator as to whether additional analyses (such as AWS Clean Rooms ML) can be applied to the output of the direct query.

Type: String

Valid Values: ALLOWED | REQUIRED | NOT\_ALLOWED

Required: No

## allowedJoinOperators

The logical operators (if any) that are to be used in an INNER JOIN match condition. Default is AND.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: OR | AND

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRulePolicy

Controls on the query specifications that can be run on configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### v1

Controls on the query specifications that can be run on configured table.

Type: [AnalysisRulePolicyV1](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRulePolicyV1

Controls on the query specifications that can be run on configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: [AnalysisRuleAggregation](#) object

Required: No

### custom

Analysis rule type that enables custom SQL queries on a configured table.

Type: [AnalysisRuleCustom](#) object

Required: No

### idMappingTable

The ID mapping table.

Type: [AnalysisRuleIdMappingTable](#) object

Required: No

### list

Analysis rule type that enables only list queries on a configured table.

Type: [AnalysisRuleList](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisSchema

A relation within an analysis.

## Contents

### referencedTables

The tables referenced in the analysis schema.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisSource

The structure that defines the body of the analysis template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### artifacts

The artifacts of the analysis source.

Type: [AnalysisTemplateArtifacts](#) object

Required: No

### text

The query text.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500000.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisSourceMetadata

The analysis source metadata.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### artifacts

The artifacts of the analysis source metadata.

Type: [AnalysisTemplateArtifactMetadata](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplate

The analysis template.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique ID for the associated collaboration of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time that the analysis template was created.

Type: Timestamp

Required: Yes

**format**

The format of the analysis template.

Type: String

Valid Values: SQL | PYSPARK\_1\_0

Required: Yes

**id**

The identifier for the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the member who created the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The identifier of a member who created the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### **schema**

The entire schema object.

Type: [AnalysisSchema](#) object

Required: Yes

### **source**

The source of the analysis template.

Type: [AnalysisSource](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **updateTime**

The time that the analysis template was last updated.

Type: Timestamp

Required: Yes

### **analysisParameters**

The parameters of the analysis template.

Type: Array of [AnalysisParameter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

### description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### errorMessageConfiguration

The configuration that specifies the level of detail in error messages returned by analyses using this template. When set to `DETAILED`, error messages include more information to help troubleshoot issues with PySpark jobs. Detailed error messages may expose underlying data, including sensitive information. Recommended for faster troubleshooting in development and testing environments.

Type: [ErrorMessageConfiguration](#) object

Required: No

### sourceMetadata

The source metadata for the analysis template.

Type: [AnalysisSourceMetadata](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### syntheticDataParameters

The parameters used to generate synthetic data for this analysis template.

Type: [SyntheticDataParameters](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## validations

Information about the validations performed on the analysis template.

Type: Array of [AnalysisTemplateValidationStatusDetail](#) objects

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplateArtifact

The analysis template artifact.

## Contents

### location

The artifact location.

Type: [S3Location](#) object

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplateArtifactMetadata

The analysis template artifact metadata.

## Contents

### entryPointHash

The hash of the entry point for the analysis template artifact metadata.

Type: [Hash](#) object

Required: Yes

### additionalArtifactHashes

Additional artifact hashes for the analysis template.

Type: Array of [Hash](#) objects

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplateArtifacts

The analysis template artifacts.

## Contents

### entryPoint

The entry point for the analysis template artifacts.

Type: [AnalysisTemplateArtifact](#) object

Required: Yes

### roleArn

The role ARN for the analysis template artifacts.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@- ]+`

Required: Yes

### additionalArtifacts

Additional artifacts for the analysis template.

Type: Array of [AnalysisTemplateArtifact](#) objects

Array Members: Fixed number of 1 item.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# AnalysisTemplateSummary

The metadata of the analysis template.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template summary's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the analysis template summary belongs to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time that the analysis template summary was created.

Type: Timestamp

Required: Yes

**id**

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the member who created the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the analysis template.





# AnalysisTemplateValidationStatusDetail

The status details of the analysis template validation. AWS Clean Rooms Differential Privacy uses a general-purpose query structure to support complex SQL queries and validates whether an analysis template fits that general-purpose query structure. Validation is performed when analysis templates are created and fetched. Because analysis templates are immutable by design, we recommend that you create analysis templates after you associate the configured tables with their analysis rule to your collaboration.

For more information, see <https://docs.aws.amazon.com/clean-rooms/latest/userguide/analysis-rules-custom.html#custom-diff-privacy>.

## Contents

### status

The status of the validation.

Type: String

Valid Values: VALID | INVALID | UNABLE\_TO\_VALIDATE

Required: Yes

### type

The type of validation that was performed.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

### reasons

The reasons for the validation results.

Type: Array of [AnalysisTemplateValidationStatusReason](#) objects

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplateValidationStatusReason

The reasons for the validation results.

## Contents

### message

The validation message.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ApprovalStatusDetails

Contains detailed information about the approval state of a given member in the collaboration for a given collaboration change request.

## Contents

### status

The approval status of a member's vote on the change request. Valid values are PENDING (if they haven't voted), APPROVED, or DENIED.

Type: String

Valid Values: APPROVED | DENIED | PENDING

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AthenaTableReference

A reference to a table within Athena.

## Contents

### databaseName

The database name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_]+-)* ([a-zA-Z0-9_]+) )?`

Required: Yes

### tableName

The table reference.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_]+)* ([a-zA-Z0-9_]+) )?`

Required: Yes

### workGroup

The workgroup of the Athena table reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `( [a-zA-Z0-9._-] )*`

Required: Yes

### catalogName

The catalog name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9\_-]+

Required: No

## **outputLocation**

The output location for the Athena table.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Pattern: s3://[a-z0-9.--]{3,63}(.\*)

Required: No

## **region**

The AWS Region where the Athena table is located. This parameter is required to uniquely identify and access tables across different Regions.

Type: String

Valid Values: us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1 | ap-east-2

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchGetCollaborationAnalysisTemplateError

Details of errors thrown by the call to retrieve multiple analysis templates within a collaboration by their identifiers.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### code

An error code for the error.

Type: String

Required: Yes

### message

A description of why the call failed.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchemaAnalysisRuleError

An error that describes why a schema could not be fetched.

## Contents

### code

An error code for the error.

Type: String

Required: Yes

### message

A description of why the call failed.

Type: String

Required: Yes

### name

An error name for the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### type

The analysis rule type.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM | ID\_MAPPING\_TABLE

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchemaError

An error describing why a schema could not be fetched.

## Contents

### code

An error code for the error.

Type: String

Required: Yes

### message

An error message for the error.

Type: String

Required: Yes

### name

An error name for the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# BilledJobResourceUtilization

Information related to the utilization of resources that have been billed or charged for in a given context, such as a protected job.

## Contents

### units

The number of Clean Rooms Processing Unit (CRPU) hours that have been billed.

Type: Double

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BilledResourceUtilization

Information related to the utilization of resources that have been billed or charged for in a given context, such as a protected query.

## Contents

### units

The number of Clean Rooms Processing Unit (CRPU) hours that have been billed.

Type: Double

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BudgetParameter

Individual budget parameter configuration that defines specific budget allocation settings for access budgets.

## Contents

### budget

The budget allocation amount for this specific parameter.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000000.

Required: Yes

### type

The type of budget parameter being configured.

Type: String

Valid Values: CALENDAR\_DAY | CALENDAR\_MONTH | CALENDAR\_WEEK | LIFETIME

Required: Yes

### autoRefresh

Whether this individual budget parameter automatically refreshes when the budget period resets.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Change

Represents a single change within a collaboration change request, containing the change identifier and specification.

## Contents

### specification

The specification details for this change.

Type: [ChangeSpecification](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### specificationType

The type of specification for this change.

Type: String

Valid Values: MEMBER | COLLABORATION

Required: Yes

### types

The list of change types that were applied.

Type: Array of strings

Array Members: Minimum number of 1 item.

Valid Values: ADD\_MEMBER | GRANT\_RECEIVE\_RESULTS\_ABILITY |  
REVOKE\_RECEIVE\_RESULTS\_ABILITY | EDIT\_AUTO\_APPROVED\_CHANGE\_TYPES  
| ADD\_PAYER\_CANDIDATE | REMOVE\_PAYER\_CANDIDATE |  
GRANT\_CAN\_RECEIVE\_MODEL\_OUTPUT | GRANT\_CAN\_RECEIVE\_INFERENCE\_OUTPUT |  
REVOKE\_CAN\_RECEIVE\_MODEL\_OUTPUT | REVOKE\_CAN\_RECEIVE\_INFERENCE\_OUTPUT

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ChangeInput

Specifies a change to apply to a collaboration.

## Contents

### specification

The specification details for the change. The structure depends on the specification type.

Type: [ChangeSpecification](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### specificationType

The type of specification for the change. Currently supports MEMBER for member-related changes.

Type: String

Valid Values: MEMBER | COLLABORATION

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ChangeSpecification

A union that contains the specification details for different types of changes.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### collaboration

The collaboration configuration changes being requested. Currently, this only supports modifying which change types are auto-approved for the collaboration.

Type: [CollaborationChangeSpecification](#) object

Required: No

### member

The member change specification when the change type is MEMBER.

Type: [MemberChangeSpecification](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Collaboration

The multi-party data share environment. The collaboration contains metadata about its purpose and participants.

## Contents

### arn

The unique ARN for the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### createTime

The time when the collaboration was created.

Type: Timestamp

Required: Yes

### creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### creatorDisplayName

A display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## **id**

The unique ID for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **memberStatus**

The status of a member in a collaboration.

Type: String

Valid Values: INVITED | ACTIVE | LEFT | REMOVED

Required: Yes

## **name**

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## **queryLogStatus**

An indicator as to whether query logging has been enabled or disabled for the collaboration.

When ENABLED, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

### **updateTime**

The time the collaboration metadata was last updated.

Type: Timestamp

Required: Yes

### **allowedResultRegions**

The AWS Regions where collaboration query results can be stored. Returns the list of Region identifiers that were specified when the collaboration was created. This list is used to enforce regional storage policies and compliance requirements.

Type: Array of strings

Valid Values: us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-east-2 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1

Required: No

### **analyticsEngine**

The analytics engine for the collaboration.

#### **Note**

After July 16, 2025, the CLEAN\_ROOMS\_SQL parameter will no longer be available.

Type: String

Valid Values: SPARK | CLEAN\_ROOMS\_SQL

Required: No

### **autoApprovedChangeTypes**

The types of change requests that are automatically approved for this collaboration.

Type: Array of strings

Valid Values: ADD\_MEMBER | GRANT\_RECEIVE\_RESULTS\_ABILITY |  
REVOKE\_RECEIVE\_RESULTS\_ABILITY

Required: No

### **dataEncryptionMetadata**

The settings for client-side encryption for cryptographic computing.

Type: [DataEncryptionMetadata](#) object

Required: No

### **description**

A description of the collaboration provided by the collaboration owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]\*

Required: No

### **isMetricsEnabled**

An indicator as to whether metrics are enabled for the collaboration.

When `true`, collaboration members can opt in to Amazon CloudWatch metrics for their membership queries.

Type: Boolean

Required: No

### **jobLogStatus**

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When ENABLED, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

### **membershipArn**

The unique ARN for your membership within the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: No

### **membershipId**

The unique ID for your membership within the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationAnalysisTemplate

The analysis template within a collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time that the analysis template within a collaboration was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**format**

The format of the analysis template in the collaboration.

Type: String

Valid Values: SQL | PYSPARK\_1\_0

Required: Yes

**id**

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the analysis template.



## errorMessageConfiguration

The configuration that specifies the level of detail in error messages returned by analyses using this template. When set to DETAILED, error messages include more information to help troubleshoot issues with PySpark jobs. Detailed error messages may expose underlying data, including sensitive information. Recommended for faster troubleshooting in development and testing environments.

Type: [ErrorMessageConfiguration](#) object

Required: No

## source

The source of the analysis template within a collaboration.

Type: [AnalysisSource](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## sourceMetadata

The source metadata for the collaboration analysis template.

Type: [AnalysisSourceMetadata](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## syntheticDataParameters

The synthetic data generation parameters configured for this collaboration analysis template.

Type: [SyntheticDataParameters](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## validations

The validations that were performed.

Type: Array of [AnalysisTemplateValidationStatusDetail](#) objects

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationAnalysisTemplateSummary

The metadata of the analysis template within a collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time that the summary of the analysis template in a collaboration was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

**id**

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**name**

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9\_]( ([a-zA-Z0-9\_ ]+ )\*( [a-zA-Z0-9\_ ]+ ))?

Required: Yes

## **updateTime**

The time that the summary of the analysis template in the collaboration was last updated.

Type: Timestamp

Required: Yes

## **description**

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## **isSyntheticData**

Indicates if this collaboration analysis template uses synthetic data generation.

Type: Boolean

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationChangeRequest

Represents a request to modify a collaboration. Change requests enable structured modifications to collaborations after they have been created.

## Contents

### changes

The list of changes specified in this change request.

Type: Array of [Change](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

### collaborationId

The unique identifier for the collaboration being modified.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time when the change request was created.

Type: Timestamp

Required: Yes

### id

The unique identifier for the change request.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **isAutoApproved**

Whether the change request was automatically approved based on the collaboration's auto-approval settings.

Type: Boolean

Required: Yes

### **status**

The current status of the change request. Valid values are PENDING, APPROVED, DENIED, COMMITTED, and CANCELLED.

Type: String

Valid Values: PENDING | APPROVED | CANCELLED | DENIED | COMMITTED

Required: Yes

### **updateTime**

The time when the change request was last updated.

Type: Timestamp

Required: Yes

### **approvals**

A list of approval details from collaboration members, including approval status and multi-party approval workflow information.

Type: String to [ApprovalStatusDetails](#) object map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Fixed length of 12.

Key Pattern: `\d+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationChangeRequestSummary

Summary information about a collaboration change request.

## Contents

### changes

Summary of the changes in this change request.

Type: Array of [Change](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

### collaborationId

The unique identifier for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time when the change request was created.

Type: Timestamp

Required: Yes

### id

The unique identifier for the change request.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **isAutoApproved**

Whether the change request was automatically approved.

Type: Boolean

Required: Yes

### **status**

The current status of the change request.

Type: String

Valid Values: PENDING | APPROVED | CANCELLED | DENIED | COMMITTED

Required: Yes

### **updateTime**

The time when the change request was last updated.

Type: Timestamp

Required: Yes

### **approvals**

Summary of approval statuses from all collaboration members for this change request.

Type: String to [ApprovalStatusDetails](#) object map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Fixed length of 12.

Key Pattern: \d+

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationChangeSpecification

Defines the specific changes being requested for a collaboration, including configuration modifications and approval requirements.

## Contents

### autoApprovedChangeTypes

Defines requested updates to properties of the collaboration. Currently, this only supports modifying which change types are auto-approved for the collaboration.

Type: Array of strings

Valid Values: ADD\_MEMBER | GRANT\_RECEIVE\_RESULTS\_ABILITY |  
REVOKE\_RECEIVE\_RESULTS\_ABILITY

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationConfiguredAudienceModelAssociation

The configured audience model association within a collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the configured audience model's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the configured audience model associations belong to. Accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configure audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

**createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**id**

The identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**updateTime**

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

**description**

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

**See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationConfiguredAudienceModelAssociationSummary

A summary of the configured audience model association in the collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the configured audience model's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the configured audience model associations belong to. Accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**id**

The identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**updateTime**

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

### description

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationIdNamespaceAssociation

Defines details for the collaboration ID namespace association.

## Contents

### arn

The Amazon Resource Name (ARN) of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which the collaboration ID namespace association was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The unique identifier of the AWS account that created the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

**id**

The unique identifier of the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**inputReferenceConfig**

The input reference configuration that's necessary to create the collaboration ID namespace association.

Type: [IdNamespaceAssociationInputReferenceConfig](#) object

Required: Yes

**inputReferenceProperties**

The input reference properties that are needed to create the collaboration ID namespace association.

Type: [IdNamespaceAssociationInputReferenceProperties](#) object

Required: Yes

### **name**

The name of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### **updateTime**

The most recent time at which the collaboration ID namespace was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]\*

Required: No

### **idMappingConfig**

The configuration settings for the ID mapping table.

Type: [IdMappingConfig](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationIdNamespaceAssociationSummary

Provides summary information about the collaboration ID namespace association.

## Contents

### arn

The Amazon Resource Name (ARN) of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the collaboration ID namespace association was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The AWS account that created this collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

### **id**

The unique identifier of the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### **inputReferenceConfig**

The input reference configuration that's used to create the collaboration ID namespace association.

Type: [IdNamespaceAssociationInputReferenceConfig](#) object

Required: Yes

### **inputReferenceProperties**

The input reference properties that are used to create the collaboration ID namespace association.

Type: [IdNamespaceAssociationInputReferencePropertiesSummary](#) object

Required: Yes

### **name**

The name of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **updateTime**

The most recent time at which the collaboration ID namespace association was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CollaborationPrivacyBudgetSummary

A summary of the collaboration privacy budgets. This summary includes the collaboration information, creation information, epsilon provided, and utility in terms of aggregations.

## Contents

### budget

The includes epsilon provided and utility in terms of aggregations.

Type: [PrivacyBudget](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### collaborationArn

The ARN of the collaboration that includes this privacy budget.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that includes this privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time at which the privacy budget was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique identifier of the account that created this privacy budget.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### **id**

The unique identifier of the collaboration privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **privacyBudgetTemplateArn**

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### **privacyBudgetTemplateId**

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **type**

The type of privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

### **updateTime**

The most recent time at which the privacy budget was updated.

Type: Timestamp

Required: Yes

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationPrivacyBudgetTemplate

An array that specifies the information for a collaboration's privacy budget template.

## Contents

### arn

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### autoRefresh

How often the privacy budget refreshes.

#### Important

If you plan to regularly bring new data into the collaboration, use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queried across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH` | `NONE`

Required: Yes

### collaborationArn

The ARN of the collaboration that includes this collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique identifier of the collaboration that includes this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the collaboration privacy budget template was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique identifier of the account that created this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### **id**

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## parameters

Specifies the epsilon and noise parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateParametersOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## privacyBudgetType

The type of privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

## updateTime

The most recent time at which the collaboration privacy budget template was updated.

Type: Timestamp

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationPrivacyBudgetTemplateSummary

A summary of the collaboration's privacy budget template. This summary includes information about who created the privacy budget template and what collaborations it belongs to.

## Contents

### arn

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the collaboration privacy budget template was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique identifier of the account that created this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

### **id**

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### **privacyBudgetType**

The type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

### **updateTime**

The most recent time at which the collaboration privacy budget template was updated.

Type: Timestamp

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationSummary

The metadata of the collaboration.

## Contents

### arn

The ARN of the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### createTime

The time when the collaboration was created.

Type: Timestamp

Required: Yes

### creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### creatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

## **id**

The identifier for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## **memberStatus**

The status of a member in a collaboration.

Type: String

Valid Values: INVITED | ACTIVE | LEFT | REMOVED

Required: Yes

## **name**

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

## **updateTime**

The time the collaboration metadata was last updated.

Type: Timestamp

Required: Yes

## analyticsEngine

The analytics engine.

### Note

After July 16, 2025, the CLEAN\_ROOMS\_SQL parameter will no longer be available.

Type: String

Valid Values: SPARK | CLEAN\_ROOMS\_SQL

Required: No

## membershipArn

The ARN of a member in a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: No

## membershipId

The identifier of a member in a collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Column

A column within a schema relation, derived from the underlying table.

## Contents

### name

The name of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+ )+ )*`

Required: Yes

### type

The type of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ColumnClassificationDetails

Contains classification information for data columns, including mappings that specify how columns should be handled during synthetic data generation and privacy analysis.

## Contents

### columnMapping

A mapping that defines the classification of data columns for synthetic data generation and specifies how each column should be handled during the privacy-preserving data synthesis process.

Type: Array of [SyntheticDataColumnProperties](#) objects

Array Members: Minimum number of 5 items. Maximum number of 1000 items.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComputeConfiguration

The configuration of the compute resources for an analysis with the Spark analytics engine.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### worker

The worker configuration for the compute environment.

Type: [WorkerComputeConfiguration](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfigurationDetails

The configuration details.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### directAnalysisConfigurationDetails

The direct analysis configuration details.

Type: [DirectAnalysisConfigurationDetails](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredAudienceModelAssociation

Details about the configured audience model association.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier of the collaboration that contains this configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configured audience model that was used for this configured audience model association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

### **id**

A unique identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **manageResourcePolicies**

When TRUE, indicates that the resource policy for the configured audience model resource being associated is configured for AWS Clean Rooms to manage permissions related to the given collaboration. When FALSE, indicates that the configured audience model resource owner will manage permissions related to the given collaboration.

Type: Boolean

Required: Yes

## membershipArn

The Amazon Resource Name (ARN) of the membership that contains this configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

## membershipId

A unique identifier for the membership that contains this configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## name

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## updateTime

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

## description

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredAudienceModelAssociationSummary

A summary of the configured audience model association.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier of the collaboration that configured audience model is associated with.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configured audience model that was used for this configured audience model association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## **createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

## **id**

A unique identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **membershipArn**

The Amazon Resource Name (ARN) of the membership that contains the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

A unique identifier of the membership that contains the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **updateTime**

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTable

A table that has been configured for use in a collaboration.

## Contents

### allowedColumns

The columns within the underlying AWS Glue table that can be used within collaborations.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]{0,128}([a-z0-9_]{1,127}){0,1}`

Required: Yes

### analysisMethod

The analysis method for the configured table.

DIRECT\_QUERY allows SQL queries to be run directly on this table.

DIRECT\_JOB allows PySpark jobs to be run directly on this table.

MULTIPLE allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: DIRECT\_QUERY | DIRECT\_JOB | MULTIPLE

Required: Yes

### analysisRuleTypes

The types of analysis rules associated with this configured table. Currently, only one analysis rule may be associated with a configured table.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### **arn**

The unique ARN for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

### **createTime**

The time the configured table was created.

Type: Timestamp

Required: Yes

### **id**

The unique ID for the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

A name for the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## tableReference

The table that this configured table represents.

Type: [TableReference](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## updateTime

The time the configured table was last updated

Type: Timestamp

Required: Yes

## description

A description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## selectedAnalysisMethods

The selected analysis methods for the configured table.

Type: Array of strings

Valid Values: DIRECT\_QUERY | DIRECT\_JOB

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAnalysisRule

A configured table analysis rule, which limits how data for this table can be used.

## Contents

### **configuredTableArn**

The unique ARN for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

### **configuredTableId**

The unique ID for the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time the configured table analysis rule was created.

Type: Timestamp

Required: Yes

### **policy**

The policy that controls SQL query rules.

Type: [ConfiguredTableAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **type**

The type of configured table analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### **updateTime**

The time the configured table analysis rule was last updated.

Type: Timestamp

Required: Yes

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAnalysisRulePolicy

Controls on the query specifications that can be run on a configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### v1

Controls on the query specifications that can be run on a configured table.

Type: [ConfiguredTableAnalysisRulePolicyV1](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAnalysisRulePolicyV1

Controls on the query specifications that can be run on a configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: [AnalysisRuleAggregation](#) object

Required: No

### custom

A type of analysis rule that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy.

Type: [AnalysisRuleCustom](#) object

Required: No

### list

Analysis rule type that enables only list queries on a configured table.

Type: [AnalysisRuleList](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociation

A configured table association links a configured table to a collaboration.

## Contents

### arn

The unique ARN for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

### configuredTableArn

The unique ARN for the configured table that the association refers to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

### configuredTableId

The unique ID for the configured table that the association refers to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time the configured table association was created.

Type: Timestamp

Required: Yes

**id**

The unique ID for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The unique ARN for the membership this configured table association belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The unique ID for the membership this configured table association belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the configured table association, in lowercase. The table is identified by this name when running protected queries against the underlying data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+- )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### **roleArn**

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: Yes

### **updateTime**

The time the configured table association was last updated.

Type: Timestamp

Required: Yes

### **analysisRuleTypes**

The analysis rule types for the configured table association.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM

Required: No

### **description**

A description of the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociationAnalysisRule

An analysis rule for a configured table association. This analysis rule specifies how data from the table can be used within its associated collaboration. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

## Contents

### `configuredTableAssociationArn`

The Amazon Resource Name (ARN) of the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

### `configuredTableAssociationId`

The unique identifier for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### `createTime`

The creation time of the configured table association analysis rule.

Type: Timestamp

Required: Yes

### `membershipIdentifier`

The membership identifier for the configured table association analysis rule.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## policy

The policy of the configured table association analysis rule.

Type: [ConfiguredTableAssociationAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## type

The type of the configured table association analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

## updateTime

The update time of the configured table association analysis rule.

Type: Timestamp

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ConfiguredTableAssociationAnalysisRuleAggregation

The configured table association analysis rule applied to a configured table with the aggregation analysis rule.

## Contents

### allowedAdditionalAnalyses

The list of resources or wildcards (ARNs) that are allowed to perform additional analysis on query output.

The `allowedAdditionalAnalyses` parameter is currently supported for the list analysis rule (`AnalysisRuleList`) and the custom analysis rule (`AnalysisRuleCustom`).

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership`  
`[/[\*\d\w-]+/configuredaudiencemodelassociation[/[\*\d\w-]+$/^arn:aws[-`  
`a-z]*:cleanrooms-ml:[-a-z0-9]+:([\d]{12}|\*):membership[/[\*\d\w-]+/`  
`configured-model-algorithm-association/([-a-zA-Z0-9_/.]+|\*)`

Required: No

### allowedResultReceivers

The list of collaboration members who are allowed to receive results of queries run with this configured table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociationAnalysisRuleCustom

The configured table association analysis rule applied to a configured table with the custom analysis rule.

## Contents

### allowedAdditionalAnalyses

The list of resources or wildcards (ARNs) that are allowed to perform additional analysis on query output.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\|[\*\d\w-]+\|configuredaudiencemodelassociation\|[\*\d\w-]+|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\|[\*\d\w-]+\|configured-model-algorithm-association\|([-a-zA-Z0-9_\.]+|\*)`

Required: No

### allowedResultReceivers

The list of collaboration members who are allowed to receive results of queries run with this configured table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociationAnalysisRuleList

The configured table association analysis rule applied to a configured table with the list analysis rule.

## Contents

### allowedAdditionalAnalyses

The list of resources or wildcards (ARNs) that are allowed to perform additional analysis on query output.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\|[\*\d\w-]+\|configuredaudiencemodelassociation\|[\*\d\w-]+|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\|[\*\d\w-]+\|configured-model-algorithm-association\|([-a-zA-Z0-9_\.]+|\*)`

Required: No

### allowedResultReceivers

The list of collaboration members who are allowed to receive results of queries run with this configured table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociationAnalysisRulePolicy

Controls on the query specifications that can be run on an associated configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### v1

The policy for the configured table association analysis rule.

Type: [ConfiguredTableAssociationAnalysisRulePolicyV1](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociationAnalysisRulePolicyV1

Controls on the query specifications that can be run on an associated configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: [ConfiguredTableAssociationAnalysisRuleAggregation](#) object

Required: No

### custom

Analysis rule type that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy.

Type: [ConfiguredTableAssociationAnalysisRuleCustom](#) object

Required: No

### list

Analysis rule type that enables only list queries on a configured table.

Type: [ConfiguredTableAssociationAnalysisRuleList](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociationSummary

The configured table association summary for the objects listed by the request.

## Contents

### arn

The unique ARN for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

### configuredTableId

The unique configured table ID that this configured table association refers to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time the configured table association was created.

Type: Timestamp

Required: Yes

### id

The unique ID for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The unique ARN for the membership that the configured table association belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The unique ID for the membership that the configured table association belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the configured table association. The table is identified by this name when running Protected Queries against the underlying data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### **updateTime**

The time the configured table association was last updated.

Type: Timestamp

Required: Yes

### **analysisRuleTypes**

The analysis rule types that are associated with the configured table associations in this summary.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableSummary

The configured table summary for the objects listed by the request.

## Contents

### analysisMethod

The analysis method for the configured tables.

DIRECT\_QUERY allows SQL queries to be run directly on this table.

DIRECT\_JOB allows PySpark jobs to be run directly on this table.

MULTIPLE allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: DIRECT\_QUERY | DIRECT\_JOB | MULTIPLE

Required: Yes

### analysisRuleTypes

The types of analysis rules associated with this configured table.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### arn

The unique ARN of the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

**createTime**

The time the configured table was created.

Type: Timestamp

Required: Yes

**id**

The unique ID of the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**updateTime**

The time the configured table was last updated.

Type: Timestamp

Required: Yes

**selectedAnalysisMethods**

The selected analysis methods for the configured table summary.

Type: Array of strings

Valid Values: `DIRECT_QUERY` | `DIRECT_JOB`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConsolidatedPolicy

Controls on the analysis specifications that can be run on a configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### v1

The consolidated policy version 1.

Type: [ConsolidatedPolicyV1](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConsolidatedPolicyAggregation

Controls on the analysis specifications that can be run on a configured table.

## Contents

### aggregateColumns

Aggregate columns in consolidated policy aggregation.

Type: Array of [AggregateColumn](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### dimensionColumns

The dimension columns of the consolidated policy aggregation.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]+([a-z0-9_]+)*([a-z0-9_]+)?`

Required: Yes

### joinColumns

The columns to join on.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]+([a-z0-9_]+)*([a-z0-9_]+)?`

Required: Yes

### outputConstraints

The output constraints of the consolidated policy aggregation.

Type: Array of [AggregationConstraint](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### scalarFunctions

The scalar functions.

Type: Array of strings

Valid Values: ABS | CAST | CEILING | COALESCE | CONVERT | CURRENT\_DATE | DATEADD | EXTRACT | FLOOR | GETDATE | LN | LOG | LOWER | ROUND | RTRIM | SQRT | SUBSTRING | TO\_CHAR | TO\_DATE | TO\_NUMBER | TO\_TIMESTAMP | TRIM | TRUNC | UPPER

Required: Yes

### additionalAnalyses

Additional analyses for the consolidated policy aggregation.

Type: String

Valid Values: ALLOWED | REQUIRED | NOT\_ALLOWED

Required: No

### allowedAdditionalAnalyses

The additional analyses allowed by the consolidated policy aggregation.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\|[\*\d\w-]+\|configuredaudiencemodelassociation\|[\*\d\w-]+|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([\d]{12}|\*):membership\|[\*\d\w-]+\|configured-model-algorithm-association\|([-a-zA-Z0-9_\./]+|\*)`

Required: No

## **allowedJoinOperators**

The allowed join operators.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: OR | AND

Required: No

## **allowedResultReceivers**

The allowed result receivers.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

## **joinRequired**

Join required

Type: String

Valid Values: QUERY\_RUNNER

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConsolidatedPolicyCustom

Controls on the analysis specifications that can be run on a configured table.

## Contents

### allowedAnalyses

The allowed analyses.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: (ANY\_QUERY|ANY\_JOB|arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+)

Required: Yes

### additionalAnalyses

Additional analyses for the consolidated policy.

Type: String

Valid Values: ALLOWED | REQUIRED | NOT\_ALLOWED

Required: No

### allowedAdditionalAnalyses

The additional analyses allowed by the consolidated policy.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\\*):membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+|^arn:aws[-

```
a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\[/\*\d\w-]+\[/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+\|\\*)
```

Required: No

### **allowedAnalysisProviders**

The allowed analysis providers.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

### **allowedResultReceivers**

The allowed result receivers.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

### **differentialPrivacy**

Specifies the unique identifier for your users.

Type: [DifferentialPrivacyConfiguration](#) object

Required: No

### **disallowedOutputColumns**

Disallowed output columns

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]+([a-z0-9_]+-)*([a-z0-9_]+)?`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConsolidatedPolicyList

Controls on the analysis specifications that can be run on a configured table.

## Contents

### joinColumns

The columns to join on.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### listColumns

The columns in the consolidated policy list.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### additionalAnalyses

Additional analyses for the consolidated policy list.

Type: String

Valid Values: ALLOWED | REQUIRED | NOT\_ALLOWED

Required: No

### allowedAdditionalAnalyses

The additional analyses allowed by the consolidated policy list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership`  
`\([\*\d\w-]+\)/configuredaudiencemodelassociation\([\*\d\w-]+\|^arn:aws[-`  
`a-z]*:cleanrooms-ml:[-a-z0-9]+:([\d]{12}|\*):membership\([\*\d\w-]+\)/`  
`configured-model-algorithm-association\(/([-a-zA-Z0-9_\.]+|\*)`

Required: No

### **allowedJoinOperators**

The allowed join operators in the consolidated policy list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: OR | AND

Required: No

### **allowedResultReceivers**

The allowed result receivers.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConsolidatedPolicyV1

Controls on the analysis specifications that can be run on a configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### aggregation

The aggregation setting for the consolidated policy.

Type: [ConsolidatedPolicyAggregation](#) object

Required: No

### custom

Custom policy

Type: [ConsolidatedPolicyCustom](#) object

Required: No

### list

The list of consolidated policies.

Type: [ConsolidatedPolicyList](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DataEncryptionMetadata

The settings for client-side encryption for cryptographic computing.

## Contents

### **allowCleartext**

Indicates whether encrypted tables can contain cleartext data (TRUE) or are to cryptographically process every column (FALSE).

Type: Boolean

Required: Yes

### **allowDuplicates**

Indicates whether Fingerprint columns can contain duplicate entries (TRUE) or are to contain only non-repeated values (FALSE).

Type: Boolean

Required: Yes

### **allowJoinsOnColumnsWithDifferentNames**

Indicates whether Fingerprint columns can be joined on any other Fingerprint column with a different name (TRUE) or can only be joined on Fingerprint columns of the same name (FALSE).

Type: Boolean

Required: Yes

### **preserveNulls**

Indicates whether NULL values are to be copied as NULL to encrypted tables (TRUE) or cryptographically processed (FALSE).

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyColumn

Specifies the name of the column that contains the unique identifier of your users, whose privacy you want to protect.

## Contents

### name

The name of the column, such as `user_id`, that contains the unique identifier of your users, whose privacy you want to protect. If you want to turn on differential privacy for two or more tables in a collaboration, you must configure the same column as the user identifier column in both analysis rules.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](("[a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyConfiguration

Specifies the unique identifier for your users.

## Contents

### columns

The name of the column (such as `user_id`) that contains the unique identifier of your users whose privacy you want to protect. If you want to turn on differential privacy for two or more tables in a collaboration, you must configure the same column as the user identifier column in both analysis rules.

Type: Array of [DifferentialPrivacyColumn](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyParameters

An array that contains the sensitivity parameters.

## Contents

### sensitivityParameters

Provides the sensitivity parameters that you can use to better understand the total amount of noise in query results.

Type: Array of [DifferentialPrivacySensitivityParameters](#) objects

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPreviewAggregation

Provides an estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

## Contents

### maxCount

The maximum number of aggregations that the member who can query can run given the epsilon and noise parameters.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### type

The type of aggregation function.

Type: String

Valid Values: AVG | COUNT | COUNT\_DISTINCT | SUM | STDDEV

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPreviewParametersInput

The epsilon and noise parameters that you want to preview.

## Contents

### epsilon

The epsilon value that you want to preview.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

### usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPrivacyBudget

Specifies the configured epsilon value and the utility in terms of total aggregations, as well as the remaining aggregations available.

## Contents

### aggregations

This information includes the configured epsilon value and the utility in terms of total aggregations, as well as the remaining aggregations.

Type: Array of [DifferentialPrivacyPrivacyBudgetAggregation](#) objects

Required: Yes

### epsilon

The epsilon value that you configured.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPrivacyBudgetAggregation

Information about the total number of aggregations, as well as the remaining aggregations.

## Contents

### maxCount

The maximum number of aggregation functions that you can perform with the given privacy budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### remainingCount

The remaining number of aggregation functions that can be run with the available privacy budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### type

The different types of aggregation functions that you can perform.

Type: String

Valid Values: AVG | COUNT | COUNT\_DISTINCT | SUM | STDDEV

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPrivacyImpact

Information about the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

## Contents

### aggregations

The number of aggregation functions that you can perform.

Type: Array of [DifferentialPrivacyPreviewAggregation](#) objects

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacySensitivityParameters

Provides the sensitivity parameters.

## Contents

### **aggregationExpression**

The aggregation expression that was run.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

### **aggregationType**

The type of aggregation function that was run.

Type: String

Valid Values: AVG | COUNT | COUNT\_DISTINCT | SUM | STDDEV

Required: Yes

### **userContributionLimit**

The maximum number of rows contributed by a user in a SQL query.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### **maxColumnValue**

The upper bound of the aggregation expression.

Type: Float

Required: No

### **minColumnValue**

The lower bound of the aggregation expression.

Type: Float

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyTemplateParametersInput

The epsilon and noise parameter values that you want to use for the differential privacy template.

## Contents

### epsilon

The epsilon value that you want to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

### usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyTemplateParametersOutput

The epsilon and noise parameter values that were used for the differential privacy template.

## Contents

### epsilon

The epsilon value that you specified.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

### usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyTemplateUpdateParameters

The epsilon and noise parameter values that you want to update in the differential privacy template.

## Contents

### epsilon

The updated epsilon value that you want to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

### usersNoisePerQuery

The updated value of noise added per query. It is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DirectAnalysisConfigurationDetails

The direct analysis configuration details.

## Contents

### receiverAccountIds

The account IDs for the member who received the results of a protected query.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ErrorMessageConfiguration

A structure that defines the level of detail included in error messages returned by PySpark jobs. This configuration allows you to control the verbosity of error messages to help with troubleshooting PySpark jobs while maintaining appropriate security controls.

## Contents

### type

The level of detail for error messages returned by the PySpark job. When set to `DETAILED`, error messages include more information to help troubleshoot issues with your PySpark job.

Because this setting may expose sensitive data, it is recommended for development and testing environments.

Type: String

Valid Values: `DETAILED`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GlueTableReference

A reference to a table within an AWS Glue data catalog.

## Contents

### databaseName

The name of the database the AWS Glue table belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_]+-)* ([a-zA-Z0-9_]+) )?`

Required: Yes

### tableName

The name of the AWS Glue table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ -)* ([a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### region

The AWS Region where the AWS Glue table is located. This parameter is required to uniquely identify and access tables across different Regions.

Type: String

Valid Values: `us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-`

south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1 | ap-east-2

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Hash

Hash

## Contents

### sha256

The SHA-256 hash value.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdMappingConfig

The configuration settings for the ID mapping table.

## Contents

### **allowUseAsDimensionColumn**

An indicator as to whether you can use your column as a dimension column in the ID mapping table (TRUE) or not (FALSE).

Default is FALSE.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdMappingTable

Describes information about the ID mapping table.

## Contents

### arn

The Amazon Resource Name (ARN) of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idmappingtable/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **createTime**

The time at which the ID mapping table was created.

Type: Timestamp

Required: Yes

## **id**

The unique identifier of the ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **inputReferenceConfig**

The input reference configuration for the ID mapping table.

Type: [IdMappingTableInputReferenceConfig](#) object

Required: Yes

## **inputReferenceProperties**

The input reference properties for the ID mapping table.

Type: [IdMappingTableInputReferenceProperties](#) object

Required: Yes

## **membershipArn**

The Amazon Resource Name (ARN) of the membership resource for the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

## membershipId

The unique identifier of the membership resource for the ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## name

The name of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - ) * ( [a-zA-Z0-9_ ]+ ) ) ?`

Required: Yes

## updateTime

The most recent time at which the ID mapping table was updated.

Type: Timestamp

Required: Yes

## description

The description of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdMappingTableInputReferenceConfig

Provides the input reference configuration for the ID mapping table.

## Contents

### inputReferenceArn

The Amazon Resource Name (ARN) of the referenced resource in AWS Entity Resolution. Valid values are ID mapping workflow ARNs.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(aws|aws-us-gov|aws-cn):entityresolution:.*:[0-9]+:(idmappingworkflow/.*)`

Required: Yes

### manageResourcePolicies

When TRUE, AWS Clean Rooms manages permissions for the ID mapping table resource.

When FALSE, the resource owner manages permissions for the ID mapping table resource.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdMappingTableInputReferenceProperties

The input reference properties for the ID mapping table.

## Contents

### idMappingTableInputSource

The input source of the ID mapping table.

Type: Array of [IdMappingTableInputSource](#) objects

Array Members: Fixed number of 2 items.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdMappingTableInputSource

The input source of the ID mapping table.

## Contents

### idNamespaceAssociationId

The unique identifier of the ID namespace association.

Type: String

Required: Yes

### type

The type of the input source of the ID mapping table.

Type: String

Valid Values: SOURCE | TARGET

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdMappingTableSchemaTypeProperties

Additional properties that are specific to the type of the associated schema.

## Contents

### idMappingTableInputSource

Defines which ID namespace associations are used to create the ID mapping table.

Type: Array of [IdMappingTableInputSource](#) objects

Array Members: Fixed number of 2 items.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdMappingTableSummary

Detailed information about the ID mapping table.

## Contents

### arn

The Amazon Resource Name (ARN) of this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idmappingtable/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which this ID mapping table was created.

Type: Timestamp

Required: Yes

**id**

The unique identifier of this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**inputReferenceConfig**

The input reference configuration for the ID mapping table.

Type: [IdMappingTableInputReferenceConfig](#) object

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the membership resource for this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The unique identifier of the membership resource for this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.





# IdNamespaceAssociation

Provides information to create the ID namespace association.

## Contents

### arn

The Amazon Resource Name (ARN) of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which the ID namespace association was created.

Type: Timestamp

Required: Yes

**id**

The unique identifier for this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**inputReferenceConfig**

The input reference configuration for the ID namespace association.

Type: [IdNamespaceAssociationInputReferenceConfig](#) object

Required: Yes

**inputReferenceProperties**

The input reference properties for the ID namespace association.

Type: [IdNamespaceAssociationInputReferenceProperties](#) object

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the membership resource for this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The unique identifier of the membership resource for this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of this ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **updateTime**

The most recent time at which the ID namespace association was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

## idMappingConfig

The configuration settings for the ID mapping table.

Type: [IdMappingConfig](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdNamespaceAssociationInputReferenceConfig

Provides the information for the ID namespace association input reference configuration.

## Contents

### inputReferenceArn

The Amazon Resource Name (ARN) of the AWS Entity Resolution resource that is being associated to the collaboration. Valid resource ARNs are from the ID namespaces that you own.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:entityresolution:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:idnamespace/[\d\w-]+`

Required: Yes

### manageResourcePolicies

When TRUE, AWS Clean Rooms manages permissions for the ID namespace association resource.

When FALSE, the resource owner manages permissions for the ID namespace association resource.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# IdNamespaceAssociationInputReferenceProperties

Provides the information for the ID namespace association input reference properties.

## Contents

### idMappingWorkflowsSupported

Defines how ID mapping workflows are supported for this ID namespace association.

Type: Array of JSON values

Required: Yes

### idNamespaceType

The ID namespace type for this ID namespace association.

Type: String

Valid Values: SOURCE | TARGET

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdNamespaceAssociationInputReferencePropertiesSummary

Detailed information about the ID namespace association input reference properties.

## Contents

### idNamespaceType

The ID namespace type for this ID namespace association.

Type: String

Valid Values: SOURCE | TARGET

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IdNamespaceAssociationSummary

Detailed information about the ID namespace association.

## Contents

### arn

The Amazon Resource Name (ARN) of this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which this ID namespace association was created.

Type: Timestamp

Required: Yes

**id**

The unique identifier of this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**inputReferenceConfig**

The input reference configuration details for this ID namespace association.

Type: [IdNamespaceAssociationInputReferenceConfig](#) object

Required: Yes

**inputReferenceProperties**

The input reference properties for this ID namespace association.

Type: [IdNamespaceAssociationInputReferencePropertiesSummary](#) object

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the membership resource for this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The unique identifier of the membership resource for this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **updateTime**

The most recent time at which this ID namespace association has been updated.

Type: Timestamp

Required: Yes

### **description**

The description of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# JobComputePaymentConfig

An object representing the collaboration member's payment responsibilities set by the collaboration creator for query and job compute costs.

## Contents

### isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for query and job compute costs (TRUE) or has not configured the collaboration member to pay for query and job compute costs (FALSE).

Exactly one member can be configured to pay for query and job compute costs. An error is returned if the collaboration creator sets a TRUE value for more than one member in the collaboration.

An error is returned if the collaboration creator sets a FALSE value for the member who can run queries and jobs.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MemberChangeSpecification

Specifies changes to collaboration membership, including adding new members with their abilities and display names.

## Contents

### accountId

The AWS account ID of the member to add to the collaboration.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### memberAbilities

The abilities granted to the collaboration member. These determine what actions the member can perform within the collaboration.

#### Note

The following values are currently not supported: `CAN_QUERY` and `CAN_RUN_JOB`.  
Set the value of `memberAbilities` to `[]` to allow a member to contribute data.  
Set the value of `memberAbilities` to `[CAN_RECEIVE_RESULTS]` to allow a member to contribute data and receive results.

Type: Array of strings

Valid Values: `CAN_QUERY` | `CAN_RECEIVE_RESULTS` | `CAN_RUN_JOB`

Required: Yes

### displayName

Specifies the display name that will be shown for this member in the collaboration. While this field is required when inviting new members, it becomes optional when modifying abilities of existing collaboration members.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: No

### **mlMemberAbilities**

The ML member abilities for a collaboration member.

Type: [MLMemberAbilities](#) object

Required: No

### **paymentConfiguration**

An object representing the collaboration member's payment responsibilities set by the collaboration creator.

Type: [PaymentConfiguration](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Membership

The membership object.

## Contents

### **arn**

The unique ARN for the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **collaborationArn**

The unique ARN for the membership's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationCreatorAccountId**

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**collaborationCreatorDisplayName**

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**collaborationId**

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**collaborationName**

The name of the membership's collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**createTime**

The time when the membership was created.

Type: Timestamp

Required: Yes

**id**

The unique ID of the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **memberAbilities**

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: `CAN_QUERY` | `CAN_RECEIVE_RESULTS` | `CAN_RUN_JOB`

Required: Yes

### **paymentConfiguration**

The payment responsibilities accepted by the collaboration member.

Type: [MembershipPaymentConfiguration](#) object

Required: Yes

### **queryLogStatus**

An indicator as to whether query logging has been enabled or disabled for the membership.

When ENABLED, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: Yes

### **status**

The status of the membership.

Type: String

Valid Values: `ACTIVE` | `REMOVED` | `COLLABORATION_DELETED`

Required: Yes

### **updateTime**

The time the membership metadata was last updated.

Type: Timestamp

Required: Yes

### **defaultJobResultConfiguration**

The default job result configuration for the membership.

Type: [MembershipProtectedJobResultConfiguration](#) object

Required: No

### **defaultResultConfiguration**

The default protected query result configuration as specified by the member who can receive results.

Type: [MembershipProtectedQueryResultConfiguration](#) object

Required: No

### **isMetricsEnabled**

An indicator as to whether Amazon CloudWatch metrics are enabled for the membership.

When `true`, metrics about query execution are collected in Amazon CloudWatch.

Type: Boolean

Required: No

### **jobLogStatus**

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

## **mlMemberAbilities**

Specifies the ML member abilities that are granted to a collaboration member.

Type: [MLMemberAbilities](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipJobComputePaymentConfig

An object representing the payment responsibilities accepted by the collaboration member for query and job compute costs.

## Contents

### isResponsible

Indicates whether the collaboration member has accepted to pay for job compute costs (TRUE) or has not accepted to pay for query and job compute costs (FALSE).

There is only one member who pays for queries and jobs.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for query and job compute costs.
- If you set the value to TRUE but you are not responsible to pay for query and job compute costs.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipMLPaymentConfig

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

## Contents

### modelInference

The payment responsibilities accepted by the member for model inference.

Type: [MembershipModelInferencePaymentConfig](#) object

Required: No

### modelTraining

The payment responsibilities accepted by the member for model training.

Type: [MembershipModelTrainingPaymentConfig](#) object

Required: No

### syntheticDataGeneration

The payment configuration for synthetic data generation for this machine learning membership.

Type: [MembershipSyntheticDataGenerationPaymentConfig](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipModelInferencePaymentConfig

An object representing the collaboration member's model inference payment responsibilities set by the collaboration creator.

## Contents

### isResponsible

Indicates whether the collaboration member has accepted to pay for model inference costs (TRUE) or has not accepted to pay for model inference costs (FALSE).

If the collaboration creator has not specified anyone to pay for model inference costs, then the member who can query is the default payer.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for model inference costs.
- If you set the value to TRUE but you are not responsible to pay for model inference costs.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipModelTrainingPaymentConfig

An object representing the collaboration member's model training payment responsibilities set by the collaboration creator.

## Contents

### isResponsible

Indicates whether the collaboration member has accepted to pay for model training costs (TRUE) or has not accepted to pay for model training costs (FALSE).

If the collaboration creator has not specified anyone to pay for model training costs, then the member who can query is the default payer.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for model training costs.
- If you set the value to TRUE but you are not responsible to pay for model training costs.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipPaymentConfiguration

An object representing the payment responsibilities accepted by the collaboration member.

## Contents

### queryCompute

The payment responsibilities accepted by the collaboration member for query compute costs.

Type: [MembershipQueryComputePaymentConfig](#) object

Required: Yes

### jobCompute

The payment responsibilities accepted by the collaboration member for job compute costs.

Type: [MembershipJobComputePaymentConfig](#) object

Required: No

### machineLearning

The payment responsibilities accepted by the collaboration member for machine learning costs.

Type: [MembershipMLPaymentConfig](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipProtectedJobOutputConfiguration

Contains configurations for protected job results.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### s3

Contains the configuration to write the job results to S3.

Type: [ProtectedJobS3OutputConfigurationInput](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipProtectedJobResultConfiguration

Contains configurations for protected job results.

## Contents

### outputConfiguration

The output configuration for a protected job result.

Type: [MembershipProtectedJobOutputConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### roleArn

The unique ARN for an IAM role that is used by AWS Clean Rooms to write protected job results to the result location, given by the member who can receive results.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam:[\w]+:role/[\w+=./@-]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipProtectedQueryOutputConfiguration

Contains configurations for protected query results.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### s3

Contains the configuration to write the query results to S3.

Type: [ProtectedQueryS3OutputConfiguration](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipProtectedQueryResultConfiguration

Contains configurations for protected query results.

## Contents

### outputConfiguration

Configuration for protected query results.

Type: [MembershipProtectedQueryOutputConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### roleArn

The unique ARN for an IAM role that is used by AWS Clean Rooms to write protected query results to the result location, given by the member who can receive results.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam:[\w]+:role/[\w+=./@-]+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipQueryComputePaymentConfig

An object representing the payment responsibilities accepted by the collaboration member for query compute costs.

## Contents

### isResponsible

Indicates whether the collaboration member has accepted to pay for query compute costs (TRUE) or has not accepted to pay for query compute costs (FALSE).

If the collaboration creator has not specified anyone to pay for query compute costs, then the member who can query is the default payer.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for query compute costs.
- If you set the value to TRUE but you are not responsible to pay for query compute costs.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipSummary

The membership object listed by the request.

## Contents

### **arn**

The unique ARN for the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **collaborationArn**

The unique ARN for the membership's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationCreatorAccountId**

The identifier of the AWS principal that created the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**collaborationCreatorDisplayName**

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**collaborationId**

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**collaborationName**

The name for the membership's collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**createTime**

The time when the membership was created.

Type: Timestamp

Required: Yes

**id**

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **memberAbilities**

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: CAN\_QUERY | CAN\_RECEIVE\_RESULTS | CAN\_RUN\_JOB

Required: Yes

### **paymentConfiguration**

The payment responsibilities accepted by the collaboration member.

Type: [MembershipPaymentConfiguration](#) object

Required: Yes

### **status**

The status of the membership.

Type: String

Valid Values: ACTIVE | REMOVED | COLLABORATION\_DELETED

Required: Yes

### **updateTime**

The time the membership metadata was last updated.

Type: Timestamp

Required: Yes

### **mlMemberAbilities**

Provides a summary of the ML abilities for the collaboration member.

Type: [MLMemberAbilities](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipSyntheticDataGenerationPaymentConfig

Configuration for payment for synthetic data generation in a membership.

## Contents

### isResponsible

Indicates if this membership is responsible for paying for synthetic data generation.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MemberSpecification

Basic metadata used to construct a new member.

## Contents

### accountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### displayName

The member's display name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### memberAbilities

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: `CAN_QUERY` | `CAN_RECEIVE_RESULTS` | `CAN_RUN_JOB`

Required: Yes

### mlMemberAbilities

The ML abilities granted to the collaboration member.

Type: [MLMemberAbilities](#) object

Required: No

## **paymentConfiguration**

The collaboration member's payment responsibilities set by the collaboration creator.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer.

Type: [PaymentConfiguration](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MemberSummary

The member object listed by the request.

## Contents

### abilities

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: CAN\_QUERY | CAN\_RECEIVE\_RESULTS | CAN\_RUN\_JOB

Required: Yes

### accountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

### createTime

The time when the member was created.

Type: Timestamp

Required: Yes

### displayName

The member's display name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### **paymentConfiguration**

The collaboration member's payment responsibilities set by the collaboration creator.

Type: [PaymentConfiguration](#) object

Required: Yes

### **status**

The status of the member.

Type: String

Valid Values: INVITED | ACTIVE | LEFT | REMOVED

Required: Yes

### **updateTime**

The time the member metadata was last updated.

Type: Timestamp

Required: Yes

### **membershipArn**

The unique ARN for the member's associated membership, if present.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+

Required: No

### **membershipId**

The unique ID for the member's associated membership, if present.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## **mlAbilities**

Provides a summary of the ML abilities for the collaboration member.

Type: [MLMemberAbilities](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MLMemberAbilities

The ML member abilities for a collaboration member.

## Contents

### customMLMemberAbilities

The custom ML member abilities for a collaboration member.

Type: Array of strings

Array Members: Minimum number of 1 item.

Valid Values: CAN\_RECEIVE\_MODEL\_OUTPUT | CAN\_RECEIVE\_INFERENCE\_OUTPUT

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MLPaymentConfig

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

## Contents

### modelInference

The payment responsibilities accepted by the member for model inference.

Type: [ModelInferencePaymentConfig](#) object

Required: No

### modelTraining

The payment responsibilities accepted by the member for model training.

Type: [ModelTrainingPaymentConfig](#) object

Required: No

### syntheticDataGeneration

The payment configuration for machine learning synthetic data generation.

Type: [SyntheticDataGenerationPaymentConfig](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MLSyntheticDataParameters

Parameters that control the generation of synthetic data for machine learning, including privacy settings and column classification details.

## Contents

### columnClassification

Classification details for data columns that specify how each column should be treated during synthetic data generation.

Type: [ColumnClassificationDetails](#) object

Required: Yes

### epsilon

The epsilon value for differential privacy when generating synthetic data. Lower values provide stronger privacy guarantees but may reduce data utility.

Type: Double

Valid Range: Minimum value of 0.0001. Maximum value of 10.

Required: Yes

### maxMembershipInferenceAttackScore

The maximum acceptable score for membership inference attack vulnerability. Synthetic data generation fails if the score for the resulting data exceeds this threshold.

Type: Double

Valid Range: Minimum value of 0.5. Maximum value of 1.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ModelInferencePaymentConfig

An object representing the collaboration member's model inference payment responsibilities set by the collaboration creator.

## Contents

### isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for model inference costs (TRUE) or has not configured the collaboration member to pay for model inference costs (FALSE).

Exactly one member can be configured to pay for model inference costs. An error is returned if the collaboration creator sets a TRUE value for more than one member in the collaboration.

If the collaboration creator hasn't specified anyone as the member paying for model inference costs, then the member who can query is the default payer. An error is returned if the collaboration creator sets a FALSE value for the member who can query.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ModelTrainingPaymentConfig

An object representing the collaboration member's model training payment responsibilities set by the collaboration creator.

## Contents

### isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for model training costs (TRUE) or has not configured the collaboration member to pay for model training costs (FALSE).

Exactly one member can be configured to pay for model training costs. An error is returned if the collaboration creator sets a TRUE value for more than one member in the collaboration.

If the collaboration creator hasn't specified anyone as the member paying for model training costs, then the member who can query is the default payer. An error is returned if the collaboration creator sets a FALSE value for the member who can query.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PaymentConfiguration

An object representing the collaboration member's payment responsibilities set by the collaboration creator.

## Contents

### queryCompute

The collaboration member's payment responsibilities set by the collaboration creator for query compute costs.

Type: [QueryComputePaymentConfig](#) object

Required: Yes

### jobCompute

The compute configuration for the job.

Type: [JobComputePaymentConfig](#) object

Required: No

### machineLearning

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

Type: [MLPaymentConfig](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# PreviewPrivacyImpactParametersInput

Specifies the updated epsilon and noise parameters to preview. The preview allows you to see how the maximum number of each type of aggregation function would change with the new parameters.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## differentialPrivacy

An array that specifies the epsilon and noise parameters.

Type: [DifferentialPrivacyPreviewParametersInput](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudget

The epsilon parameter value and number of each aggregation function that you can perform.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **accessBudget**

Access budget information associated with this privacy budget.

Type: [AccessBudget](#) object

Required: No

### **differentialPrivacy**

An object that specifies the epsilon parameter and the utility in terms of total aggregations, as well as the remaining aggregations available.

Type: [DifferentialPrivacyPrivacyBudget](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetSummary

An array that summarizes the specified privacy budget. This summary includes collaboration information, creation information, membership information, and privacy budget information.

## Contents

### budget

The provided privacy budget.

Type: [PrivacyBudget](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this privacy budget.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time at which the privacy budget was created.

Type: Timestamp

Required: Yes

## **id**

The unique identifier of the privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **membershipArn**

The Amazon Resource Name (ARN) of the member who created the privacy budget summary.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

## **membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **privacyBudgetTemplateArn**

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### **privacyBudgetTemplateId**

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **type**

Specifies the type of the privacy budget.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY` | `ACCESS_BUDGET`

Required: Yes

### **updateTime**

The most recent time at which the privacy budget was updated.

Type: Timestamp

Required: Yes

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# PrivacyBudgetTemplate

An object that defines the privacy budget template.

## Contents

### arn

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### autoRefresh

How often the privacy budget refreshes.

#### Important

If you plan to regularly bring new data into the collaboration, use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queried across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH` | `NONE`

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique ID of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the privacy budget template was created.

Type: Timestamp

Required: Yes

### **id**

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The Amazon Resource Name (ARN) of the member who created the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **parameters**

Specifies the epsilon and noise parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateParametersOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **privacyBudgetType**

Specifies the type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

### **updateTime**

The most recent time at which the privacy budget template was updated.

Type: Timestamp

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetTemplateParametersInput

The epsilon and noise parameters that you want to use for the privacy budget template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **accessBudget**

Access budget configuration for the privacy budget template input, enabling integration with access budget functionality.

Type: [AccessBudgetsPrivacyTemplateParametersInput](#) object

Required: No

### **differentialPrivacy**

An object that specifies the epsilon and noise parameters.

Type: [DifferentialPrivacyTemplateParametersInput](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetTemplateParametersOutput

The epsilon and noise parameters that were used in the privacy budget template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **accessBudget**

Access budget configuration returned from the privacy budget template, containing the configured access budget settings.

Type: [AccessBudgetsPrivacyTemplateParametersOutput](#) object

Required: No

### **differentialPrivacy**

The epsilon and noise parameters.

Type: [DifferentialPrivacyTemplateParametersOutput](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetTemplateSummary

A summary of the privacy budget template. The summary includes membership information, collaboration information, and creation information.

## Contents

### arn

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique ID of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which the privacy budget template was created.

Type: Timestamp

Required: Yes

**id**

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the member who created the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**privacyBudgetType**

The type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY | ACCESS\_BUDGET

Required: Yes

### **updateTime**

The most recent time at which the privacy budget template was updated.

Type: Timestamp

Required: Yes

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetTemplateUpdateParameters

The epsilon and noise parameters that you want to update in the privacy budget template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **accessBudget**

The new access budget configuration that completely replaces the existing access budget settings in the privacy budget template.

Type: [AccessBudgetsPrivacyTemplateUpdateParameters](#) object

Required: No

### **differentialPrivacy**

An object that specifies the new values for the epsilon and noise parameters.

Type: [DifferentialPrivacyTemplateUpdateParameters](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyImpact

Provides an estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## differentialPrivacy

An object that lists the number and type of aggregation functions you can perform.

Type: [DifferentialPrivacyPrivacyImpact](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJob

The parameters for an AWS Clean Rooms protected job.

## Contents

### **createTime**

The creation time of the protected job.

Type: Timestamp

Required: Yes

### **id**

The identifier for a protected job instance.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The ARN of the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The identifier for the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **status**

The status of the protected job.

Type: String

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS

Required: Yes

### **computeConfiguration**

The compute configuration for the protected job.

Type: [ProtectedJobComputeConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### **error**

The error from the protected job.

Type: [ProtectedJobError](#) object

Required: No

### **jobComputePayerAccountId**

The account ID of the member that pays for the job compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

### **jobParameters**

The job parameters for the protected job.

Type: [ProtectedJobParameters](#) object

Required: No

### result

The result of the protected job.

Type: [ProtectedJobResult](#) object

Required: No

### resultConfiguration

Contains any details needed to write the job results.

Type: [ProtectedJobResultConfigurationOutput](#) object

Required: No

### statistics

The statistics of the protected job.

Type: [ProtectedJobStatistics](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobComputeConfiguration

The configuration of the compute resources for a PySpark job.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### worker

The worker configuration for the compute environment.

Type: [ProtectedJobWorkerComputeConfiguration](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobConfigurationDetails

The protected job configuration details.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### directAnalysisConfigurationDetails

The details needed to configure the direct analysis.

Type: [ProtectedJobDirectAnalysisConfigurationDetails](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobDirectAnalysisConfigurationDetails

The protected job direct analysis configuration details.

## Contents

### `receiverAccountIds`

The receiver account IDs.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobError

The protected job error.

## Contents

### code

The error code for the protected job.

Type: String

Required: Yes

### message

The message for the protected job error.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobMemberOutputConfigurationInput

The protected job member output configuration input.

## Contents

### accountId

The account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobMemberOutputConfigurationOutput

The protected job member output configuration output.

## Contents

### accountId

The account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobOutput

Contains details about the protected job output.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### memberList

The list of member AWS account(s) that received the results of the job.

Type: Array of [ProtectedJobSingleMemberOutput](#) objects

Required: No

### s3

If present, the output for a protected job with an `S3` output type.

Type: [ProtectedJobS3Output](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobOutputConfigurationInput

The protected job output configuration input.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### member

The member of the protected job output configuration input.

Type: [ProtectedJobMemberOutputConfigurationInput](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobOutputConfigurationOutput

The protected job output configuration output.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### member

The member output configuration for a protected job.

Type: [ProtectedJobMemberOutputConfigurationOutput](#) object

Required: No

### s3

If present, the output for a protected job with an `S3` output type.

Type: [ProtectedJobS3OutputConfigurationOutput](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobParameters

The parameters for the protected job.

## Contents

### analysisTemplateArn

The ARN of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: Yes

### parameters

Runtime configuration values passed to the PySpark analysis script. Parameter names and types must match those defined in the analysis template.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[\0-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# ProtectedJobReceiverConfiguration

The protected job receiver configuration.

## Contents

### analysisType

The analysis type for the protected job receiver configuration.

Type: String

Valid Values: DIRECT\_ANALYSIS

Required: Yes

### configurationDetails

The configuration details for the protected job receiver.

Type: [ProtectedJobConfigurationDetails](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobResult

Details about the job results.

## Contents

### output

The output of the protected job.

Type: [ProtectedJobOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobResultConfigurationInput

The protected job result configuration input.

## Contents

### outputConfiguration

The output configuration for a protected job result.

Type: [ProtectedJobOutputConfigurationInput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobResultConfigurationOutput

The output configuration for a protected job result.

## Contents

### outputConfiguration

The output configuration.

Type: [ProtectedJobOutputConfigurationOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobS3Output

Contains output information for protected jobs with an S3 output type.

## Contents

### location

The S3 location for the protected job output.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobS3OutputConfigurationInput

Contains input information for protected jobs with an S3 output type.

## Contents

### bucket

The S3 bucket for job output.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?:!(^(\d+\.)+\d+$)(^(([a-z0-9]| [a-z0-9][a-z0-9\ -])*[a-z0-9])\.)*)*([a-z0-9]| [a-z0-9][a-z0-9\ -])*[a-z0-9])$).*`

Required: Yes

### keyPrefix

The S3 prefix to unload the protected job results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w! . = * / - ]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobS3OutputConfigurationOutput

The output configuration for a protected job's S3 output.

## Contents

### bucket

The S3 bucket for job output.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?:!(^(\d+\.)+\d+$)(^(([a-z0-9]| [a-z0-9][a-z0-9\ - ]*[a-z0-9])\.)*)*([a-z0-9]| [a-z0-9][a-z0-9\ - ]*[a-z0-9])$).*`

Required: Yes

### keyPrefix

The S3 prefix to unload the protected job results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w! . = * / - ]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobSingleMemberOutput

Details about the member who received the job result.

## Contents

### accountId

The AWS account ID of the member in the collaboration who can receive results from analyses.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobStatistics

Contains statistics about the execution of the protected job.

## Contents

### **billedResourceUtilization**

The billed resource utilization for the protected job.

Type: [BilledJobResourceUtilization](#) object

Required: No

### **totalDurationInMillis**

The duration of the protected job, from creation until job completion, in milliseconds.

Type: Long

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedJobSummary

The protected job summary for the objects listed by the request.

## Contents

### **createTime**

The time the protected job was created.

Type: Timestamp

Required: Yes

### **id**

The ID of the protected job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The unique ARN for the membership that initiated the protected job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The unique ID for the membership that initiated the protected job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### **receiverConfigurations**

The receiver configurations for the protected job.

Type: Array of [ProtectedJobReceiverConfiguration](#) objects

Required: Yes

### **status**

The status of the protected job.

Type: String

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS

Required: Yes

### **jobComputePayerAccountId**

The account ID of the member that pays for the job compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ProtectedJobWorkerComputeConfiguration

The configuration of the compute resources for a PySpark job.

## Contents

### number

The number of workers for a PySpark job.

Type: Integer

Valid Range: Minimum value of 4. Maximum value of 1024.

Required: Yes

### type

The worker compute configuration type.

Type: String

Valid Values: CR.1X | CR.4X

Required: Yes

### properties

The configuration properties for the worker compute environment. These properties allow you to customize the compute settings for your AWS Clean Rooms workloads.

Type: [WorkerComputeConfigurationProperties](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuery

The parameters for an AWS Clean Rooms protected query.

## Contents

### **createTime**

The time at which the protected query was created.

Type: Timestamp

Required: Yes

### **id**

The identifier for a protected query instance.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The ARN of the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The identifier for the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### **status**

The status of the query.

Type: String

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED\_OUT

Required: Yes

### **computeConfiguration**

The compute configuration for the protected query.

Type: [ComputeConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### **differentialPrivacy**

The sensitivity parameters of the differential privacy results of the protected query.

Type: [DifferentialPrivacyParameters](#) object

Required: No

### **error**

An error thrown by the protected query.

Type: [ProtectedQueryError](#) object

Required: No

### **queryComputePayerAccountId**

The account ID of the member that pays for the query compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

### **result**

The result of the protected query.

Type: [ProtectedQueryResult](#) object

Required: No

### **resultConfiguration**

Contains any details needed to write the query results.

Type: [ProtectedQueryResultConfiguration](#) object

Required: No

### **sqlParameters**

The protected query SQL parameters.

Type: [ProtectedQuerySQLParameters](#) object

Required: No

### **statistics**

Statistics about protected query execution.

Type: [ProtectedQueryStatistics](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# ProtectedQueryDistributeOutput

Contains the output information for a protected query with a distribute output configuration.

This output type allows query results to be distributed to multiple receivers, including S3 and collaboration members. It is only available for queries using the Spark analytics engine.

## Contents

### memberList

Contains the output results for each member location specified in the distribute output configuration. Each entry provides details about the result distribution to a specific collaboration member.

Type: Array of [ProtectedQuerySingleMemberOutput](#) objects

Required: No

### s3

Contains output information for protected queries with an S3 output type.

Type: [ProtectedQueryS3Output](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryDistributeOutputConfiguration

Specifies the configuration for distributing protected query results to multiple receivers, including S3 and collaboration members.

## Contents

### locations

A list of locations where you want to distribute the protected query results. Each location must specify either an S3 destination or a collaboration member destination.

#### Important

You can't specify more than one S3 location.

You can't specify the query runner's account as a member location.

You must include either an S3 or member output configuration for each location, but not both.

Type: Array of [ProtectedQueryDistributeOutputConfigurationLocation](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryDistributeOutputConfigurationLocation

Specifies where you'll distribute the results of your protected query. You must configure either an S3 destination or a collaboration member destination.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### member

Contains configuration details for the protected query member output.

Type: [ProtectedQueryMemberOutputConfiguration](#) object

Required: No

### s3

Contains the configuration to write the query results to S3.

Type: [ProtectedQueryS3OutputConfiguration](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryError

Details of errors thrown by the protected query.

## Contents

### code

An error code for the error.

Type: String

Required: Yes

### message

A description of why the query failed.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryMemberOutputConfiguration

Contains configuration details for the protected query member output.

## Contents

### accountId

The unique identifier for the account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryOutput

Contains details about the protected query output.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### distributed

Contains output information for protected queries that use a `distributed` output type. This output type lets you send query results to multiple locations - either to S3 or to collaboration members.

### Note

You can only use the `distributed` output type with the Spark analytics engine.

Type: [ProtectedQueryDistributeOutput](#) object

Required: No

### memberList

The list of member AWS account(s) that received the results of the query.

Type: Array of [ProtectedQuerySingleMemberOutput](#) objects

Required: No

### s3

If present, the output for a protected query with an S3 output type.

Type: [ProtectedQueryS3Output](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryOutputConfiguration

Contains configuration details for protected query output.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **distribute**

Required configuration for a protected query with a `distribute` output type.

Type: [ProtectedQueryDistributeOutputConfiguration](#) object

Required: No

### **member**

Required configuration for a protected query with a `member` output type.

Type: [ProtectedQueryMemberOutputConfiguration](#) object

Required: No

### **s3**

Required configuration for a protected query with an `s3` output type.

Type: [ProtectedQueryS3OutputConfiguration](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryResult

Details about the query results.

## Contents

### output

The output of the protected query.

Type: [ProtectedQueryOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryResultConfiguration

Contains configurations for protected query results.

## Contents

### outputConfiguration

Configuration for protected query results.

Type: [ProtectedQueryOutputConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryS3Output

Contains output information for protected queries with an S3 output type.

## Contents

### location

The S3 location of the result.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryS3OutputConfiguration

Contains the configuration to write the query results to S3.

## Contents

### bucket

The S3 bucket to unload the protected query results.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?:!(\d+\.)+\d+$)^(([a-z0-9]|[a-z0-9][a-z0-9\-*[a-z0-9])\.)*([a-z0-9]|[a-z0-9][a-z0-9\-*[a-z0-9])$).*`

Required: Yes

### resultFormat

Intended file format of the result.

Type: String

Valid Values: CSV | PARQUET

Required: Yes

### keyPrefix

The S3 prefix to unload the protected query results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w! .=*/-]*`

Required: No

### singleFileOutput

Indicates whether files should be output as a single file (TRUE) or output as multiple files (FALSE). This parameter is only supported for analyses with the Spark analytics engine.

Type: Boolean

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuerySingleMemberOutput

Details about the member who received the query result.

## Contents

### accountId

The AWS account ID of the member in the collaboration who can receive results for the query.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuerySQLParameters

The parameters for the SQL type Protected Query.

## Contents

### analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: No

### parameters

The protected query SQL parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[\d-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

### queryString

The query string to be submitted.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500000.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryStatistics

Contains statistics about the execution of the protected query.

## Contents

### **billedResourceUtilization**

The billed resource utilization.

Type: [BilledResourceUtilization](#) object

Required: No

### **totalDurationInMillis**

The duration of the protected query, from creation until query completion, in milliseconds.

Type: Long

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuerySummary

The protected query summary for the objects listed by the request.

## Contents

### **createTime**

The time the protected query was created.

Type: Timestamp

Required: Yes

### **id**

The unique ID of the protected query.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The unique ARN for the membership that initiated the protected query.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The unique ID for the membership that initiated the protected query.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **receiverConfigurations**

The receiver configuration.

Type: Array of [ReceiverConfiguration](#) objects

Required: Yes

### **status**

The status of the protected query.

Type: String

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED\_OUT

Required: Yes

### **queryComputePayerAccountId**

The account ID of the member that pays for the query compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# QueryComputePaymentConfig

An object representing the collaboration member's payment responsibilities set by the collaboration creator for query compute costs.

## Contents

### isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for query compute costs (TRUE) or has not configured the collaboration member to pay for query compute costs (FALSE).

Exactly one member can be configured to pay for query compute costs. An error is returned if the collaboration creator sets a TRUE value for more than one member in the collaboration.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer. An error is returned if the collaboration creator sets a FALSE value for the member who can query.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# QueryConstraint

Provides any necessary query constraint information.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### requireOverlap

An array of column names that specifies which columns are required in the JOIN statement.

Type: [QueryConstraintRequireOverlap](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# QueryConstraintRequireOverlap

Provides the name of the columns that are required to overlap.

## Contents

### columns

The columns that are required to overlap.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](("[a-z0-9_ ]+")( "[a-z0-9_ ]+"))?`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReceiverConfiguration

The receiver configuration for a protected query.

## Contents

### analysisType

The type of analysis for the protected query. The results of the query can be analyzed directly (DIRECT\_ANALYSIS) or used as input into additional analyses (ADDITIONAL\_ANALYSIS), such as a query that is a seed for a lookalike ML model.

Type: String

Valid Values: DIRECT\_ANALYSIS | ADDITIONAL\_ANALYSIS

Required: Yes

### configurationDetails

The configuration details of the receiver configuration.

Type: [ConfigurationDetails](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# S3Location

The S3 location.

## Contents

### bucket

The bucket name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?:!(\d+\.)+\d+$)^(([a-z0-9]|[a-z0-9][a-z0-9\-\-]*[a-z0-9])\.)*([a-z0-9]|[a-z0-9][a-z0-9\-\-]*[a-z0-9])$).*`

Required: Yes

### key

The object key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9!_.*'()-/]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Schema

A schema is a relation within a collaboration.

## Contents

### **analysisRuleTypes**

The analysis rule types that are associated with the schema. Currently, only one entry is present.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM | ID\_MAPPING\_TABLE

Required: Yes

### **collaborationArn**

The unique Amazon Resource Name (ARN) for the collaboration that the schema belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique ID for the collaboration that the schema belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **columns**

The columns for the relation that this schema represents.



Required: Yes

### **partitionKeys**

The partition keys for the dataset underlying this schema.

Type: Array of [Column](#) objects

Required: Yes

### **schemaStatusDetails**

Details about the status of the schema. Currently, only one entry is present.

Type: Array of [SchemaStatusDetail](#) objects

Required: Yes

### **type**

The type of schema.

Type: String

Valid Values: TABLE | ID\_MAPPING\_TABLE

Required: Yes

### **updateTime**

The most recent time at which the schema was updated.

Type: Timestamp

Required: Yes

### **analysisMethod**

The analysis method for the schema.

DIRECT\_QUERY allows SQL queries to be run directly on this table.

DIRECT\_JOB allows PySpark jobs to be run directly on this table.

MULTIPLE allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: DIRECT\_QUERY | DIRECT\_JOB | MULTIPLE

Required: No

### resourceArn

The Amazon Resource Name (ARN) of the schema resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\|[\d\w-]+\|(configuredtableassociation|idmappingtable)\|[\d\w-]+`

Required: No

### schemaTypeProperties

The schema type properties.

Type: [SchemaTypeProperties](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### selectedAnalysisMethods

The selected analysis methods for the schema.

Type: Array of strings

Valid Values: DIRECT\_QUERY | DIRECT\_JOB

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# SchemaAnalysisRuleRequest

Defines the information that's necessary to retrieve an analysis rule schema. Schema analysis rules are uniquely identified by a combination of the schema name and the analysis rule type for a given collaboration.

## Contents

### name

The name of the analysis rule schema that you are requesting.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - ) * ( [a-zA-Z0-9_ ]+ ) ) ?`

Required: Yes

### type

The type of analysis rule schema that you are requesting.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM | ID\_MAPPING\_TABLE

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SchemaStatusDetail

Information about the schema status.

A status of `READY` means that based on the schema analysis rule, queries of the given analysis rule type are properly configured to run queries on this schema.

## Contents

### **analysisType**

The type of analysis that can be performed on the schema.

A schema can have an `analysisType` of `DIRECT_ANALYSIS`, `ADDITIONAL_ANALYSIS_FOR_AUDIENCE_GENERATION`, or both.

Type: String

Valid Values: `DIRECT_ANALYSIS` | `ADDITIONAL_ANALYSIS`

Required: Yes

### **status**

The status of the schema, indicating if it is ready to query.

Type: String

Valid Values: `READY` | `NOT_READY`

Required: Yes

### **analysisRuleType**

The analysis rule type for which the schema status has been evaluated.

Type: String

Valid Values: `AGGREGATION` | `LIST` | `CUSTOM` | `ID_MAPPING_TABLE`

Required: No

### **configurations**

The configuration details of the schema analysis rule for the given type.

Type: Array of strings

Valid Values: DIFFERENTIAL\_PRIVACY

Required: No

### **reasons**

The reasons why the schema status is set to its current state.

Type: Array of [SchemaStatusReason](#) objects

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SchemaStatusReason

A reason why the schema status is set to its current value.

## Contents

### code

The schema status reason code.

Type: String

Valid Values: ANALYSIS\_RULE\_MISSING | ANALYSIS\_TEMPLATES\_NOT\_CONFIGURED | ANALYSIS\_PROVIDERS\_NOT\_CONFIGURED | DIFFERENTIAL\_PRIVACY\_POLICY\_NOT\_CONFIGURED | ID\_MAPPING\_TABLE\_NOT\_POPULATED | COLLABORATION\_ANALYSIS\_RULE\_NOT\_CONFIGURED | ADDITIONAL\_ANALYSES\_NOT\_CONFIGURED | RESULT\_RECEIVERS\_NOT\_CONFIGURED | ADDITIONAL\_ANALYSES\_NOT\_ALLOWED | RESULT\_RECEIVERS\_NOT\_ALLOWED | ANALYSIS\_RULE\_TYPES\_NOT\_COMPATIBLE

Required: Yes

### message

An explanation of the schema status reason code.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SchemaSummary

The schema summary for the objects listed by the request.

## Contents

### **analysisRuleTypes**

The types of analysis rules that are associated with this schema object.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM | ID\_MAPPING\_TABLE

Required: Yes

### **collaborationArn**

The unique ARN for the collaboration that the schema belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique ID for the collaboration that the schema belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time the schema object was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique account ID for the AWS account that owns the schema.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### **name**

The name for the schema object.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### **type**

The type of schema object.

Type: String

Valid Values: TABLE | ID\_MAPPING\_TABLE

Required: Yes

### **updateTime**

The time the schema object was last updated.

Type: Timestamp

Required: Yes

## analysisMethod

The analysis method for the associated schema.

DIRECT\_QUERY allows SQL queries to be run directly on this table.

DIRECT\_JOB allows PySpark jobs to be run directly on this table.

MULTIPLE allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: DIRECT\_QUERY | DIRECT\_JOB | MULTIPLE

Required: No

## resourceArn

The Amazon Resource Name (ARN) of the schema summary resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\|([\d\w-]+\|(configuredtableassociation|idmappingtable))\|([\d\w-]+`

Required: No

## selectedAnalysisMethods

The selected analysis methods for the schema.

Type: Array of strings

Valid Values: DIRECT\_QUERY | DIRECT\_JOB

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SchemaTypeProperties

Information about the schema type properties.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### idMappingTable

The ID mapping table for the schema type properties.

Type: [IdMappingTableSchemaTypeProperties](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SnowflakeTableReference

A reference to a table within Snowflake.

## Contents

### **accountIdentifier**

The account identifier for the Snowflake table reference.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs} . ]+`

Required: Yes

### **databaseName**

The name of the database the Snowflake table belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs} ]+`

Required: Yes

### **schemaName**

The schema name of the Snowflake table reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs} ]+`

Required: Yes

### **secretArn**

The secret ARN of the Snowflake table reference.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:secretsmanager:[a-z]{2}-[a-z]+-[0-9]:\d{12}:secret:.*`

Required: Yes

### **tableName**

The name of the Snowflake table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs}]+`

Required: Yes

### **tableSchema**

The schema of the Snowflake table.

Type: [SnowflakeTableSchema](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SnowflakeTableSchema

The schema of a Snowflake table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### v1

The schema of a Snowflake table.

Type: Array of [SnowflakeTableSchemaV1](#) objects

Array Members: Minimum number of 1 item. Maximum number of 250 items.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SnowflakeTableSchemaV1

The Snowflake table schema.

## Contents

### columnName

The column name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+- )*( [a-z0-9_ ]+ ) )?`

Required: Yes

### columnType

The column's data type. Supported data types: ARRAY, BIGINT, BOOLEAN, CHAR, DATE, DECIMAL, DOUBLE, DOUBLE PRECISION, FLOAT, FLOAT4, INT, INTEGER, MAP, NUMERIC, NUMBER, REAL, SMALLINT, STRING, TIMESTAMP, TIMESTAMP\_LTZ, TIMESTAMP\_NTZ, DATETIME, TINYINT, VARCHAR, TEXT, CHARACTER.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# SyntheticDataColumnProperties

Properties that define how a specific data column should be handled during synthetic data generation, including its name, type, and role in predictive modeling.

## Contents

### columnName

The name of the data column as it appears in the dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]{0,128}([a-z0-9_]{1,127})?`

Required: Yes

### columnType

The data type of the column, which determines how the synthetic data generation algorithm processes and synthesizes values for this column.

Type: String

Valid Values: CATEGORICAL | NUMERICAL

Required: Yes

### isPredictiveValue

Indicates if this column contains predictive values that should be treated as target variables in machine learning models. This affects how the synthetic data generation preserves statistical relationships.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SyntheticDataGenerationPaymentConfig

Payment configuration for synthetic data generation.

## Contents

### isResponsible

Indicates who is responsible for paying for synthetic data generation.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SyntheticDataParameters

The parameters that control how synthetic data is generated, including privacy settings, column classifications, and other configuration options that affect the data synthesis process.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## mlSyntheticDataParameters

The machine learning-specific parameters for synthetic data generation.

Type: [MLSyntheticDataParameters](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TableReference

A pointer to the dataset that underlies this table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **athena**

If present, a reference to the Athena table referred to by this table reference.

Type: [AthenaTableReference](#) object

Required: No

### **glue**

If present, a reference to the AWS Glue table referred to by this table reference.

Type: [GlueTableReference](#) object

Required: No

### **snowflake**

If present, a reference to the Snowflake table referred to by this table reference.

Type: [SnowflakeTableReference](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateMembershipPaymentConfiguration

An object representing the payment responsibilities to update for the membership.

## Contents

### jobCompute

An object representing the payment responsibilities accepted by the collaboration member for query and job compute costs.

Type: [MembershipJobComputePaymentConfig](#) object

Required: No

### machineLearning

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

Type: [MembershipMLPaymentConfig](#) object

Required: No

### queryCompute

An object representing the payment responsibilities accepted by the collaboration member for query compute costs.

Type: [MembershipQueryComputePaymentConfig](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ValidationExceptionField

Describes validation errors for specific input parameters.

## Contents

### message

A message for the input validation error.

Type: String

Required: Yes

### name

The name of the input parameter.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# WorkerComputeConfiguration

The configuration of the compute resources for workers running an analysis with the AWS Clean Rooms SQL analytics engine.

## Contents

### number

The number of workers.

SQL queries support a minimum value of 2 and a maximum value of 400.

PySpark jobs support a minimum value of 4 and a maximum value of 128.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 400.

Required: No

### properties

The configuration properties for the worker compute environment. These properties allow you to customize the compute settings for your AWS Clean Rooms workloads.

Type: [WorkerComputeConfigurationProperties](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### type

The worker compute configuration type.

Type: String

Valid Values: CR.1X | CR.4X

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# WorkerComputeConfigurationProperties

The configuration properties that define the compute environment settings for workers in AWS Clean Rooms. These properties enable customization of the underlying compute environment to optimize performance for your specific workloads.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## spark

The Spark configuration properties for SQL and PySpark workloads. This map contains key-value pairs that configure Apache Spark settings to optimize performance for your data processing jobs. You can specify up to 50 Spark properties, with each key being 1-200 characters and each value being 0-500 characters. These properties allow you to adjust compute capacity for large datasets and complex workloads.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 200.

Value Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

**Required: Conditional**

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## **IncompleteSignature**

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## **InternalFailure**

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## **MalformedHttpRequestException**

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

## **UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

## **UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

## **ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400