
Application Cost Profiler

API Reference

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Application Cost Profiler: API Reference

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Welcome

This reference provides descriptions of the AWS Application Cost Profiler API.

The AWS Application Cost Profiler API provides programmatic access to view, create, update, and delete application cost report definitions, as well as to import your usage data into the Application Cost Profiler service.

For more information about using this service, see the [AWS Application Cost Profiler User Guide](#).

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Actions

The following actions are supported:

- [DeleteReportDefinition](#) (p. 3)
- [GetReportDefinition](#) (p. 5)
- [ImportApplicationUsage](#) (p. 8)
- [ListReportDefinitions](#) (p. 10)
- [PutReportDefinition](#) (p. 13)
- [UpdateReportDefinition](#) (p. 16)

DeleteReportDefinition

Deletes the specified report definition in AWS Application Cost Profiler. This stops the report from being generated.

Request Syntax

```
DELETE /reportDefinition/reportId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

reportId (p. 3)

Required. ID of the report to delete.

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

Pattern: `^[0-9A-Za-z\.\-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "reportId": "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.

reportId (p. 3)

ID of the report that was deleted.

Type: String

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

Pattern: `^[0-9A-Za-z\.\-_]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 26\)](#).

AccessDeniedException

You do not have permission to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry your request.

HTTP Status Code: 500

ThrottlingException

The calls to AWS Application Cost Profiler API are throttled. The request was denied.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints for the API.

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

GetReportDefinition

Retrieves the definition of a report already configured in AWS Application Cost Profiler.

Request Syntax

```
GET /reportDefinition/reportId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

reportId (p. 5)

ID of the report to retrieve.

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

Pattern: `^[0-9A-Za-z\.\-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "createdAt": number,
  "destinationS3Location": {
    "bucket": "string",
    "prefix": "string"
  },
  "format": "string",
  "lastUpdated": number,
  "reportDescription": "string",
  "reportFrequency": "string",
  "reportId": "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.

createdAt (p. 5)

Timestamp (milliseconds) when this report definition was created.

Type: Timestamp

destinationS3Location (p. 5)

Amazon Simple Storage Service (Amazon S3) location where the report is uploaded.

Type: [S3Location \(p. 22\)](#) object

format (p. 5)

Format of the generated report.

Type: String

Valid Values: CSV | PARQUET

lastUpdated (p. 5)

Timestamp (milliseconds) when this report definition was last updated.

Type: Timestamp

reportDescription (p. 5)

Description of the report.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .*\S.*

reportFrequency (p. 5)

Cadence used to generate the report.

Type: String

Valid Values: MONTHLY | DAILY | ALL

reportId (p. 5)

ID of the report retrieved.

Type: String

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

Pattern: ^[0-9A-Za-z\.\-_]+\$

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 26\)](#).

AccessDeniedException

You do not have permission to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry your request.

HTTP Status Code: 500

ThrottlingException

The calls to AWS Application Cost Profiler API are throttled. The request was denied.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints for the API.

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

ImportApplicationUsage

Ingests application usage data from Amazon Simple Storage Service (Amazon S3).

The data must already exist in the S3 location. As part of the action, AWS Application Cost Profiler copies the object from your S3 bucket to an S3 bucket owned by Amazon for processing asynchronously.

Request Syntax

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

{
  "sourceS3Location": {
    "bucket": "string",
    "key": "string",
    "region": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[sourceS3Location \(p. 8\)](#)

Amazon S3 location to import application usage data from.

Type: [SourceS3Location \(p. 23\)](#) object

Required: Yes

Response Syntax

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

{
  "importId": "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.

[importId \(p. 8\)](#)

ID of the import request.

Type: String

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

Pattern: [0-9A-Za-z\.\-_]*

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 26\)](#).

AccessDeniedException

You do not have permission to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry your request.

HTTP Status Code: 500

ThrottlingException

The calls to AWS Application Cost Profiler API are throttled. The request was denied.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints for the API.

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

ListReportDefinitions

Retrieves a list of all reports and their configurations for your AWS account.

The maximum number of reports is one.

Request Syntax

```
GET /reportDefinition?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 10)

The maximum number of results to return.

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

nextToken (p. 10)

The token value from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 102400.

Pattern: $^(?:[A-Za-z0-9+/\]{4})^*(?:[A-Za-z0-9+/\]{2}==|[A-Za-z0-9+/\]{3}=)?\$\$$

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "reportDefinitions": [
    {
      "createdAt": number,
      "destinationS3Location": {
        "bucket": "string",
        "prefix": "string"
      },
      "format": "string",
      "lastUpdatedAt": number,
      "reportDescription": "string",
      "reportFrequency": "string",
      "reportId": "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 (p. 10)

The value of the next token, if it exists. Null if there are no more results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 102400.

Pattern: `^(?:[A-Za-z0-9+/\]{4})*(?:[A-Za-z0-9+/\]{2}==|[A-Za-z0-9+/\]{3}=)?$`

reportDefinitions (p. 10)

The retrieved reports.

Type: Array of [ReportDefinition](#) (p. 20) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 26).

AccessDeniedException

You do not have permission to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry your request.

HTTP Status Code: 500

ThrottlingException

The calls to AWS Application Cost Profiler API are throttled. The request was denied.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints for the API.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

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

PutReportDefinition

Creates the report definition for a report in Application Cost Profiler.

Request Syntax

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

{
  "destinationS3Location": {
    "bucket": "string",
    "prefix": "string"
  },
  "format": "string",
  "reportDescription": "string",
  "reportFrequency": "string",
  "reportId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

destinationS3Location (p. 13)

Required. Amazon Simple Storage Service (Amazon S3) location where Application Cost Profiler uploads the report.

Type: [S3Location](#) (p. 22) object

Required: Yes

format (p. 13)

Required. The format to use for the generated report.

Type: String

Valid Values: CSV | PARQUET

Required: Yes

reportDescription (p. 13)

Required. Description of the report.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .*\S.*

Required: Yes

reportFrequency (p. 13)

Required. The cadence to generate the report.

Type: String

Valid Values: MONTHLY | DAILY | ALL

Required: Yes

reportId (p. 13)

Required. ID of the report. You can choose any valid string matching the pattern for the ID.

Type: String

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

Pattern: `^[0-9A-Za-z\.\-_]+$`

Required: Yes

Response Syntax

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

{
  "reportId": "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.

reportId (p. 14)

ID of the report.

Type: String

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

Pattern: `^[0-9A-Za-z\.\-_]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 26\)](#).

AccessDeniedException

You do not have permission to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry your request.

HTTP Status Code: 500

ServiceQuotaExceededException

Your request exceeds one or more of the service quotas.

HTTP Status Code: 402

ThrottlingException

The calls to AWS Application Cost Profiler API are throttled. The request was denied.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints for the API.

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

UpdateReportDefinition

Updates existing report in AWS Application Cost Profiler.

Request Syntax

```
PUT /reportDefinition/reportId HTTP/1.1
Content-type: application/json

{
  "destinationS3Location": {
    "bucket": "string",
    "prefix": "string"
  },
  "format": "string",
  "reportDescription": "string",
  "reportFrequency": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

reportId (p. 16)

Required. ID of the report to update.

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

Pattern: `^[0-9A-Za-z\.\-_]+$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

destinationS3Location (p. 16)

Required. Amazon Simple Storage Service (Amazon S3) location where Application Cost Profiler uploads the report.

Type: [S3Location](#) (p. 22) object

Required: Yes

format (p. 16)

Required. The format to use for the generated report.

Type: String

Valid Values: CSV | PARQUET

Required: Yes

reportDescription (p. 16)

Required. Description of the report.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .*\.S.*

Required: Yes

reportFrequency (p. 16)

Required. The cadence to generate the report.

Type: String

Valid Values: MONTHLY | DAILY | ALL

Required: Yes

Response Syntax

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

{
  "reportId": "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.

reportId (p. 17)

ID of the report.

Type: String

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

Pattern: ^[0-9A-Za-z\.\-_]+\$

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 26).

AccessDeniedException

You do not have permission to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry your request.

HTTP Status Code: 500

ThrottlingException

The calls to AWS Application Cost Profiler API are throttled. The request was denied.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints for the API.

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

Data Types

The AWS Application Cost Profiler 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:

- [ReportDefinition](#) (p. 20)
- [S3Location](#) (p. 22)
- [SourceS3Location](#) (p. 23)

ReportDefinition

The configuration of a report in AWS Application Cost Profiler.

Contents

createdAt

Timestamp (milliseconds) when this report definition was created.

Type: Timestamp

Required: No

destinationS3Location

The location in Amazon Simple Storage Service (Amazon S3) the reports should be saved to.

Type: [S3Location](#) (p. 22) object

Required: No

format

The format used for the generated reports.

Type: String

Valid Values: CSV | PARQUET

Required: No

lastUpdatedAt

Timestamp (milliseconds) when this report definition was last updated.

Type: Timestamp

Required: No

reportDescription

Description of the report

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .*S.*

Required: No

reportFrequency

The cadence at which the report is generated.

Type: String

Valid Values: MONTHLY | DAILY | ALL

Required: No

reportId

The ID of the report.

Type: String

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

Pattern: `^[0-9A-Za-z\.\-_]+$`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Location

Represents the Amazon Simple Storage Service (Amazon S3) location where AWS Application Cost Profiler reports are generated and then written to.

Contents

bucket

Name of the S3 bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `(?=^.{3,63}$)(?!^\d+\.)+\d+$)^(([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

prefix

Prefix for the location to write to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `.*\S.*`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SourceS3Location

Represents the Amazon Simple Storage Service (Amazon S3) location where usage data is read from.

Contents

bucket

Name of the bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `(?=^.{3,63}$)(?!^\d+\.)(^[a-z0-9][a-z0-9][a-z0-9\-\-]*[a-z0-9])\.(^[a-z0-9][a-z0-9][a-z0-9\-\-]*[a-z0-9])$`

Required: Yes

key

Key of the object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `.*\S.*`

Required: Yes

region

Region of the bucket. Only required for Regions that are disabled by default. For more information about Regions that are disabled by default, see [Enabling a Region](#) in the *AWS General Reference guide*.

Type: String

Valid Values: `ap-east-1 | me-south-1 | eu-south-1 | af-south-1`

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 Go](#)
- [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 [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

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 [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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'THHMMSS'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 [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400