



API Reference

Savings Plans



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Savings Plans: API Reference

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Table of Contents

Welcome	1
Actions	2
CreateSavingsPlan	3
Request Syntax	3
URI Request Parameters	3
Request Body	3
Response Syntax	4
Response Elements	5
Errors	5
See Also	5
DeleteQueuedSavingsPlan	7
Request Syntax	7
URI Request Parameters	7
Request Body	7
Response Syntax	7
Response Elements	7
Errors	7
See Also	8
DescribeSavingsPlanRates	9
Request Syntax	9
URI Request Parameters	9
Request Body	9
Response Syntax	10
Response Elements	11
Errors	11
See Also	12
DescribeSavingsPlans	13
Request Syntax	13
URI Request Parameters	13
Request Body	13
Response Syntax	15
Response Elements	15
Errors	16
See Also	16

DescribeSavingsPlansOfferingRates	18
Request Syntax	18
URI Request Parameters	18
Request Body	18
Response Syntax	21
Response Elements	21
Errors	22
See Also	22
DescribeSavingsPlansOfferings	24
Request Syntax	24
URI Request Parameters	24
Request Body	24
Response Syntax	27
Response Elements	28
Errors	29
See Also	29
ListTagsForResource	30
Request Syntax	30
URI Request Parameters	30
Request Body	30
Response Syntax	30
Response Elements	31
Errors	31
See Also	31
ReturnSavingsPlan	33
Request Syntax	33
URI Request Parameters	33
Request Body	33
Response Syntax	33
Response Elements	34
Errors	34
See Also	35
TagResource	36
Request Syntax	36
URI Request Parameters	36
Request Body	36

Response Syntax	37
Response Elements	37
Errors	37
See Also	37
UntagResource	39
Request Syntax	39
URI Request Parameters	39
Request Body	39
Response Syntax	40
Response Elements	40
Errors	40
See Also	40
Data Types	42
ParentSavingsPlanOffering	43
Contents	43
See Also	44
SavingsPlan	45
Contents	45
See Also	48
SavingsPlanFilter	50
Contents	50
See Also	50
SavingsPlanOffering	51
Contents	51
See Also	53
SavingsPlanOfferingFilterElement	54
Contents	54
See Also	54
SavingsPlanOfferingProperty	55
Contents	55
See Also	55
SavingsPlanOfferingRate	56
Contents	56
See Also	57
SavingsPlanOfferingRateFilterElement	59
Contents	59

See Also	59
SavingsPlanOfferingRateProperty	60
Contents	60
See Also	60
SavingsPlanRate	61
Contents	61
See Also	62
SavingsPlanRateFilter	64
Contents	64
See Also	64
SavingsPlanRateProperty	65
Contents	65
See Also	65
Common Parameters	66
Common Errors	69

Welcome

Savings Plans are a pricing model that offer significant savings on AWS usage (for example, on Amazon EC2 instances). You commit to a consistent amount of usage per hour, in the specified currency, for a term of one or three years, and receive a lower price for that usage. For more information, see the [AWS Savings Plans User Guide](#).

This document was last published on July 2, 2024.

Actions

The following actions are supported:

- [CreateSavingsPlan](#)
- [DeleteQueuedSavingsPlan](#)
- [DescribeSavingsPlanRates](#)
- [DescribeSavingsPlans](#)
- [DescribeSavingsPlansOfferingRates](#)
- [DescribeSavingsPlansOfferings](#)
- [ListTagsForResource](#)
- [ReturnSavingsPlan](#)
- [TagResource](#)
- [UntagResource](#)

CreateSavingsPlan

Creates a Savings Plan.

Request Syntax

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

{
  "clientToken": "string",
  "commitment": "string",
  "purchaseTime": number,
  "savingsPlanOfferingId": "string",
  "tags": {
    "string" : "string"
  },
  "upfrontPaymentAmount": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

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

Type: String

Required: No

commitment

The hourly commitment, in the same currency of the `savingsPlanOfferingId`. This is a value between 0.001 and 1 million. You cannot specify more than five digits after the decimal point.

Type: String

Required: Yes

purchaseTime

The purchase time of the Savings Plan in UTC format (YYYY-MM-DDTHH:MM:SSZ).

Type: Timestamp

Required: No

savingsPlanOfferingId

The ID of the offering.

Type: String

Required: Yes

tags

One or more tags.

Type: String to string map

Required: No

upfrontPaymentAmount

The up-front payment amount. This is a whole number between 50 and 99 percent of the total value of the Savings Plan. This parameter is only supported if the payment option is `Partial Upfront`.

Type: String

Required: No

Response Syntax

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

{
  "savingsPlanId": "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.

savingsPlanId

The ID of the Savings Plan.

Type: String

Errors

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

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota has been exceeded.

HTTP Status Code: 402

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteQueuedSavingsPlan

Deletes the queued purchase for the specified Savings Plan.

Request Syntax

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

```
{
  "savingsPlanId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

savingsPlanId

The ID of the Savings Plan.

Type: String

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 Errors](#).

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota has been exceeded.

HTTP Status Code: 402

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeSavingsPlanRates

Describes the rates for the specified Savings Plan.

Request Syntax

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

```
{
  "filters": [
    {
      "name": "string",
      "values": [ "string" ]
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "savingsPlanId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

The filters.

Type: Array of [SavingsPlanRateFilter](#) objects

Required: No

maxResults

The maximum number of results to return with a single call. To retrieve additional results, make another call with the returned token value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

The token for the next page of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+\-]+`

Required: No

savingsPlanId

The ID of the Savings Plan.

Type: String

Required: Yes

Response Syntax

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

{
  "nextToken": "string",
  "savingsPlanId": "string",
  "searchResults": [
    {
      "currency": "string",
      "operation": "string",
      "productType": "string",
      "properties": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "rate": "string",
```



```
    "serviceCode": "string",
    "unit": "string",
    "usageType": "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 token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+]+$`

savingsPlanId

The ID of the Savings Plan.

Type: String

searchResults

Information about the Savings Plan rates.

Type: Array of [SavingsPlanRate](#) objects

Errors

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

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeSavingsPlans

Describes the specified Savings Plans.

Request Syntax

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

```
{
  "filters": [
    {
      "name": "string",
      "values": [ "string" ]
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "savingsPlanArns": [ "string" ],
  "savingsPlanIds": [ "string" ],
  "states": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

The filters.

Type: Array of [SavingsPlanFilter](#) objects

Required: No

maxResults

The maximum number of results to return with a single call. To retrieve additional results, make another call with the returned token value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

The token for the next page of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+]+$`

Required: No

savingsPlanArns

The Amazon Resource Names (ARN) of the Savings Plans.

Type: Array of strings

Array Members: Maximum number of 100 items.

Pattern: `arn:aws:[a-z]+:([a-z]{2}-[a-z]+\-\d{1} |):(\d{12}):savingsplan\[/code>
([0-9a-f]{8}-[0-9a-f]{4}-[1-5][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]
{12})$`

Required: No

savingsPlanIds

The IDs of the Savings Plans.

Type: Array of strings

Required: No

states

The current states of the Savings Plans.

Type: Array of strings

Valid Values: payment-pending | payment-failed | active | retired | queued | queued-deleted | pending-return | returned

Required: No

Response Syntax

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

{
  "nextToken": "string",
  "savingsPlans": [
    {
      "commitment": "string",
      "currency": "string",
      "description": "string",
      "ec2InstanceFamily": "string",
      "end": "string",
      "offeringId": "string",
      "paymentOption": "string",
      "productTypes": [ "string" ],
      "recurringPaymentAmount": "string",
      "region": "string",
      "returnableUntil": "string",
      "savingsPlanArn": "string",
      "savingsPlanId": "string",
      "savingsPlanType": "string",
      "start": "string",
      "state": "string",
      "tags": {
        "string" : "string"
      },
      "termDurationInSeconds": number,
      "upfrontPaymentAmount": "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 token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+]+$`

savingsPlans

Information about the Savings Plans.

Type: Array of [SavingsPlan](#) objects

Errors

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

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeSavingsPlansOfferingRates

Describes the offering rates for the specified Savings Plans.

Request Syntax

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

```
{
  "filters": [
    {
      "name": "string",
      "values": [ "string" ]
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "operations": [ "string" ],
  "products": [ "string" ],
  "savingsPlanOfferingIds": [ "string" ],
  "savingsPlanPaymentOptions": [ "string" ],
  "savingsPlanTypes": [ "string" ],
  "serviceCodes": [ "string" ],
  "usageTypes": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

The filters.

Type: Array of [SavingsPlanOfferingRateFilterElement](#) objects

Required: No

maxResults

The maximum number of results to return with a single call. To retrieve additional results, make another call with the returned token value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000.

Required: No

nextToken

The token for the next page of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+\$]`

Required: No

operations

The specific AWS operation for the line item in the billing report.

Type: Array of strings

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z0-9_ \/. :-]*$`

Required: No

products

The AWS products.

Type: Array of strings

Valid Values: EC2 | Fargate | Lambda | SageMaker

Required: No

savingsPlanOfferingIds

The IDs of the offerings.

Type: Array of strings

Pattern: `[a-f0-9]+(-[a-f0-9]+)*`

Required: No

savingsPlanPaymentOptions

The payment options.

Type: Array of strings

Valid Values: All Upfront | Partial Upfront | No Upfront

Required: No

savingsPlanTypes

The plan types.

Type: Array of strings

Valid Values: Compute | EC2Instance | SageMaker

Required: No

serviceCodes

The services.

Type: Array of strings

Valid Values: AmazonEC2 | AmazonECS | AmazonEKS | AWSLambda | AmazonSageMaker

Required: No

usageTypes

The usage details of the line item in the billing report.

Type: Array of strings

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z0-9_ \\/.:-]+$`

Required: No

Response Syntax

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

{
  "nextToken": "string",
  "searchResults": [
    {
      "operation": "string",
      "productType": "string",
      "properties": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "rate": "string",
      "savingsPlanOffering": {
        "currency": "string",
        "durationSeconds": number,
        "offeringId": "string",
        "paymentOption": "string",
        "planDescription": "string",
        "planType": "string"
      },
      "serviceCode": "string",
      "unit": "string",
      "usageType": "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 token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+]+$`

searchResults

Information about the Savings Plans offering rates.

Type: Array of [SavingsPlanOfferingRate](#) objects

Errors

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

InternalServerError

An unexpected error occurred.

HTTP Status Code: 500

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeSavingsPlansOfferings

Describes the offerings for the specified Savings Plans.

Request Syntax

```
POST /DescribeSavingsPlansOfferings HTTP/1.1
```

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

```
{
  "currencies": [ "string" ],
  "descriptions": [ "string" ],
  "durations": [ number ],
  "filters": [
    {
      "name": "string",
      "values": [ "string" ]
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "offeringIds": [ "string" ],
  "operations": [ "string" ],
  "paymentOptions": [ "string" ],
  "planTypes": [ "string" ],
  "productType": "string",
  "serviceCodes": [ "string" ],
  "usageTypes": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

currencies

The currencies.

Type: Array of strings

Valid Values: CNY | USD

Required: No

descriptions

The descriptions.

Type: Array of strings

Pattern: `^[a-zA-Z0-9_\-\]+$`

Required: No

durations

The duration, in seconds.

Type: Array of longs

Valid Range: Minimum value of 0.

Required: No

filters

The filters.

Type: Array of [SavingsPlanOfferingFilterElement](#) objects

Required: No

maxResults

The maximum number of results to return with a single call. To retrieve additional results, make another call with the returned token value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000.

Required: No

nextToken

The token for the next page of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+]+$`

Required: No

offeringsIds

The IDs of the offerings.

Type: Array of strings

Pattern: `[a-f0-9]+(-[a-f0-9]+)*`

Required: No

operations

The specific AWS operation for the line item in the billing report.

Type: Array of strings

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z0-9_ \/\.: -]*$`

Required: No

paymentOptions

The payment options.

Type: Array of strings

Valid Values: All Upfront | Partial Upfront | No Upfront

Required: No

planTypes

The plan types.

Type: Array of strings

Valid Values: Compute | EC2Instance | SageMaker

Required: No

productType

The product type.

Type: String

Valid Values: EC2 | Fargate | Lambda | SageMaker

Required: No

serviceCodes

The services.

Type: Array of strings

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z]+$`

Required: No

usageTypes

The usage details of the line item in the billing report.

Type: Array of strings

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z0-9_ \\/.:-]+$`

Required: No

Response Syntax

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

{
  "nextToken": "string",
```

```
"searchResults": [  
  {  
    "currency": "string",  
    "description": "string",  
    "durationSeconds": number,  
    "offeringId": "string",  
    "operation": "string",  
    "paymentOption": "string",  
    "planType": "string",  
    "productTypes": [ "string" ],  
    "properties": [  
      {  
        "name": "string",  
        "value": "string"  
      }  
    ],  
    "serviceCode": "string",  
    "usageType": "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 token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^[A-Za-z0-9/=\+]+$`

searchResults

Information about the Savings Plans offerings.

Type: Array of [SavingsPlanOffering](#) objects

Errors

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

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Lists the tags for the specified resource.

Request Syntax

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

```
{
  "resourceArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: arn:aws:[a-z]+:([a-z]{2}-[a-z]+\-\d{1}|):(\d{12}):savingsplan\/
([0-9a-f]{8}-[0-9a-f]{4}-[1-5][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]
{12})\$

Required: Yes

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

Information about the tags.

Type: String to string map

Errors

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

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ReturnSavingsPlan

Returns the specified Savings Plan.

Request Syntax

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

```
{
  "clientToken": "string",
  "savingsPlanId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

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

Type: String

Required: No

savingsPlanId

The ID of the Savings Plan.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "savingsPlanId": "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.

savingsPlanId

The ID of the Savings Plan.

Type: String

Errors

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

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota has been exceeded.

HTTP Status Code: 402

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds the specified tags to the specified resource.

Request Syntax

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

```
{
  "resourceArn": "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.

resourceArn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:aws:[a-z]+:([a-z]{2}-[a-z]+-\d{1} |):(\d{12}):savingsplan\/[0-9a-f]{8}-[0-9a-f]{4}-[1-5][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12})$`

Required: Yes

tags

One or more tags. For example, `{ "tags": { "key1": "value1", "key2": "value2" } }`.

Type: String to string map

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 Errors](#).

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota has been exceeded.

HTTP Status Code: 402

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Removes the specified tags from the specified resource.

Request Syntax

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

```
{
  "resourceArn": "string",
  "tagKeys": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:aws:[a-z]+:([a-z]{2}-[a-z]+-\d{1} |):(\d{12}):savingsplan\/[0-9a-f]{8}-[0-9a-f]{4}-[1-5][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12})$`

Required: Yes

tagKeys

The tag keys.

Type: Array of strings

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 Errors](#).

InternalServerErrorException

An unexpected error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ValidationException

One of the input parameters is not valid.

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 v2](#)
- [AWS SDK for Java V2](#)

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

Data Types

The Savings Plans 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:

- [ParentSavingsPlanOffering](#)
- [SavingsPlan](#)
- [SavingsPlanFilter](#)
- [SavingsPlanOffering](#)
- [SavingsPlanOfferingFilterElement](#)
- [SavingsPlanOfferingProperty](#)
- [SavingsPlanOfferingRate](#)
- [SavingsPlanOfferingRateFilterElement](#)
- [SavingsPlanOfferingRateProperty](#)
- [SavingsPlanRate](#)
- [SavingsPlanRateFilter](#)
- [SavingsPlanRateProperty](#)

ParentSavingsPlanOffering

Information about a Savings Plan offering.

Contents

currency

The currency.

Type: String

Valid Values: CNY | USD

Required: No

durationSeconds

The duration, in seconds.

Type: Long

Valid Range: Minimum value of 0.

Required: No

offeringId

The ID of the offering.

Type: String

Pattern: `[a-f0-9]+(-[a-f0-9]+)*`

Required: No

paymentOption

The payment option.

Type: String

Valid Values: All Upfront | Partial Upfront | No Upfront

Required: No

planDescription

The description.

Type: String

Pattern: `^[a-zA-Z0-9_\-\]+$`

Required: No

planType

The plan type.

Type: String

Valid Values: `Compute` | `EC2Instance` | `SageMaker`

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](#)

SavingsPlan

Information about a Savings Plan.

Contents

commitment

The hourly commitment amount in the specified currency.

Type: String

Required: No

currency

The currency.

Type: String

Valid Values: CNY | USD

Required: No

description

The description.

Type: String

Required: No

ec2InstanceFamily

The EC2 instance family.

Type: String

Required: No

end

The end time.

Type: String

Required: No

offeringId

The ID of the offering.

Type: String

Required: No

paymentOption

The payment option.

Type: String

Valid Values: All Upfront | Partial Upfront | No Upfront

Required: No

productTypes

The product types.

Type: Array of strings

Valid Values: EC2 | Fargate | Lambda | SageMaker

Required: No

recurringPaymentAmount

The recurring payment amount.

Type: String

Required: No

region

The AWS Region.

Type: String

Required: No

returnableUntil

The time until when a return for the Savings Plan can be requested. If the Savings Plan is not returnable, the field reflects the Savings Plan start time.

Type: String

Required: No

savingsPlanArn

The Amazon Resource Name (ARN) of the Savings Plan.

Type: String

Pattern: `arn:aws:[a-z]+:([a-z]{2}-[a-z]+-\d{1}|):(\d{12}):savingsplan\/([0-9a-f]{8}-[0-9a-f]{4}-[1-5][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12})$`

Required: No

savingsPlanId

The ID of the Savings Plan.

Type: String

Required: No

savingsPlanType

The plan type.

Type: String

Valid Values: `Compute` | `EC2Instance` | `SageMaker`

Required: No

start

The start time.

Type: String

Required: No

state

The current state.

Type: String

Valid Values: payment-pending | payment-failed | active | retired | queued | queued-deleted | pending-return | returned

Required: No

tags

One or more tags.

Type: String to string map

Required: No

termDurationInSeconds

The duration of the term, in seconds.

Type: Long

Required: No

upfrontPaymentAmount

The up-front payment amount.

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](#)

SavingsPlanFilter

Information about a Savings Plan filter.

Contents

name

The filter name.

Type: String

Valid Values: `region` | `ec2-instance-family` | `commitment` | `upfront` | `term` | `savings-plan-type` | `payment-option` | `start` | `end`

Required: No

values

The filter value.

Type: Array of strings

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](#)

SavingsPlanOffering

Information about a Savings Plan offering.

Contents

currency

The currency.

Type: String

Valid Values: CNY | USD

Required: No

description

The description.

Type: String

Pattern: `^[a-zA-Z0-9_\-\]+$`

Required: No

durationSeconds

The duration, in seconds.

Type: Long

Valid Range: Minimum value of 0.

Required: No

offeringId

The ID of the offering.

Type: String

Pattern: `[a-f0-9]+(-[a-f0-9]+)*`

Required: No

operation

The specific AWS operation for the line item in the billing report.

Type: String

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z0-9_ \\/.:-]*$`

Required: No

paymentOption

The payment option.

Type: String

Valid Values: All Upfront | Partial Upfront | No Upfront

Required: No

planType

The plan type.

Type: String

Valid Values: Compute | EC2Instance | SageMaker

Required: No

productTypes

The product type.

Type: Array of strings

Valid Values: EC2 | Fargate | Lambda | SageMaker

Required: No

properties

The properties.

Type: Array of [SavingsPlanOfferingProperty](#) objects

Required: No

serviceCode

The service.

Type: String

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z]+$`

Required: No

usageType

The usage details of the line item in the billing report.

Type: String

Length Constraints: Maximum length of 255.

Pattern: `^[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](#)

SavingsPlanOfferingFilterElement

Information about a Savings Plan offering filter.

Contents

name

The filter name.

Type: String

Valid Values: region | instanceFamily

Required: No

values

The filter values.

Type: Array of strings

Pattern: `^[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](#)

SavingsPlanOfferingProperty

Information about a Savings Plan offering property.

Contents

name

The property name.

Type: String

Valid Values: region | instanceFamily

Required: No

value

The property value.

Type: String

Pattern: `^[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](#)

SavingsPlanOfferingRate

Information about a Savings Plan offering rate.

Contents

operation

The specific AWS operation for the line item in the billing report.

Type: String

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z0-9_ \\/. :-]*$`

Required: No

productType

The product type.

Type: String

Valid Values: EC2 | Fargate | Lambda | SageMaker

Required: No

properties

The properties.

Type: Array of [SavingsPlanOfferingRateProperty](#) objects

Required: No

rate

The Savings Plan rate.

Type: String

Required: No

savingsPlanOffering

The Savings Plan offering.

Type: [ParentSavingsPlanOffering](#) object

Required: No

serviceCode

The service.

Type: String

Valid Values: AmazonEC2 | AmazonECS | AmazonEKS | AWSLambda | AmazonSageMaker

Required: No

unit

The unit.

Type: String

Valid Values: Hrs | Lambda-GB-Second | Request

Required: No

usageType

The usage details of the line item in the billing report.

Type: String

Length Constraints: Maximum length of 255.

Pattern: `^[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](#)

SavingsPlanOfferingRateFilterElement

Information about a Savings Plan offering rate filter.

Contents

name

The filter name.

Type: String

Valid Values: region | instanceFamily | instanceType | productDescription | tenancy | productId

Required: No

values

The filter values.

Type: Array of strings

Pattern: `^[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](#)

SavingsPlanOfferingRateProperty

Information about a Savings Plan offering rate property.

Contents

name

The property name.

Type: String

Pattern: `^[a-zA-Z0-9_ \\.\\:~-\\(\\)]+$`

Required: No

value

The property value.

Type: String

Pattern: `^[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](#)

SavingsPlanRate

Information about a Savings Plan rate.

Contents

currency

The currency.

Type: String

Valid Values: CNY | USD

Required: No

operation

The specific AWS operation for the line item in the billing report.

Type: String

Length Constraints: Maximum length of 255.

Pattern: `^[a-zA-Z0-9_ \\/. :-]*$`

Required: No

productType

The product type.

Type: String

Valid Values: EC2 | Fargate | Lambda | SageMaker

Required: No

properties

The properties.

Type: Array of [SavingsPlanRateProperty](#) objects

Required: No

rate

The rate.

Type: String

Required: No

serviceCode

The service.

Type: String

Valid Values: AmazonEC2 | AmazonECS | AmazonEKS | AWSLambda | AmazonSageMaker

Required: No

unit

The unit.

Type: String

Valid Values: Hrs | Lambda-GB-Second | Request

Required: No

usageType

The usage details of the line item in the billing report.

Type: String

Length Constraints: Maximum length of 255.

Pattern: `^[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](#)

SavingsPlanRateFilter

Information about a Savings Plan rate filter.

Contents

name

The filter name.

Type: String

Valid Values: region | instanceType | productDescription | tenancy | productType | serviceCode | usageType | operation

Required: No

values

The filter values.

Type: Array of strings

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](#)

SavingsPlanRateProperty

Information about a Savings Plan rate property.

Contents

name

The property name.

Type: String

Valid Values: region | instanceType | instanceFamily | productDescription | tenancy

Required: No

value

The property value.

Type: String

Pattern: `^[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](#)

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*.

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 [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 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: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

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

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

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

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400