

# Savings Plans



## Savings Plans: API Reference

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# Welcome

Savings Plans are a pricing model that offer significant savings on Amazon 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 [Amazon Savings Plans User Guide](#).

This document was last published on July 3, 2025.

# 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
```

## 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](#).

### **InternalServerError**

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 Amazon SDKs, see the following:

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

## InternalServerException

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 Amazon SDKs, see the following:

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

# DescribeSavingsPlanRates

Describes the rates for a specific, existing Savings Plan.

## Request Syntax

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

{
  "filtersnamestring",
      "valuesstring" ]
    }
  ],
  "maxResultsnumber,
  "nextTokenstring",
  "savingsPlanIdstring"
}
```

## 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 Amazon SDKs, see the following:

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

# DescribeSavingsPlans

Describes the specified Savings Plans.

## Request Syntax

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

{
  "filtersnamestring",
      "valuesstring" ]
    }
  ],
  "maxResultsnumber,
  "nextTokenstring",
  "savingsPlanArnsstring" ],
  "savingsPlanIdsstring" ],
  "statesstring" ]
}
```

## 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\\([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](#).

### **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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)

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

# DescribeSavingsPlansOfferingRates

Describes the offering rates for Savings Plans you might want to purchase.

## Request Syntax

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

{
  "filtersnamevaluesmaxResultsnextTokenoperationsproductssavingsPlanOfferingIdssavingsPlanPaymentOptionssavingsPlanTypesserviceCodesusageTypes
```

## 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 Amazon 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 Amazon 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
```

```
{
  "nextTokensearchResultsoperationproductTypepropertiesnamevalueratesavingsPlanOfferingcurrencydurationSecondsofferingIdpaymentOptionplanDescriptionplanTypeserviceCodeunitusageType
```

## 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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)

- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 Amazon 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",
```

```
"searchResultscurrencydescriptiondurationSecondsofferingIdoperationpaymentOptionplanTypeproductTypespropertiesnamevalueserviceCodeusageType
```

## 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](#).

### 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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
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- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

# ListTagsForResource

Lists the tags for the specified resource.

## Request Syntax

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

{
    "resourceArn
```

## 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](#).

### **InternalServerError**

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 Amazon SDKs, see the following:

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

# ReturnSavingsPlan

Returns the specified Savings Plan.

## Request Syntax

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

{
  "clientTokensavingsPlanId
```

## 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](#).

### **InternalServerError**

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 Amazon SDKs, see the following:

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

### InternalServerError

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 Amazon SDKs, see the following:

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

### InternalServerError

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 Amazon SDKs, see the following:

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

- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# SavingsPlanOfferingRate

Information about a Savings Plan offering rate.

## Contents

### **operation**

The specific Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)

- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon Security Token Service (Amazon STS). For a list of services that support temporary security credentials from Amazon STS, see [Amazon Web Services services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon service.

HTTP Status Code: 400