



API Reference

# AWS Trusted Advisor



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# AWS Trusted Advisor: API Reference

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# Welcome

TrustedAdvisor Public API

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# Actions

The following actions are supported:

- [BatchUpdateRecommendationResourceExclusion](#)
- [GetOrganizationRecommendation](#)
- [GetRecommendation](#)
- [ListChecks](#)
- [ListOrganizationRecommendationAccounts](#)
- [ListOrganizationRecommendationResources](#)
- [ListOrganizationRecommendations](#)
- [ListRecommendationResources](#)
- [ListRecommendations](#)
- [UpdateOrganizationRecommendationLifecycle](#)
- [UpdateRecommendationLifecycle](#)

# BatchUpdateRecommendationResourceExclusion

Update one or more exclusion statuses for a list of recommendation resources. This API supports up to 25 unique recommendation resource ARNs per request. This API currently doesn't support prioritized recommendation resources. This API updates global recommendations, eliminating the need to call the API in each AWS Region. After submitting an exclusion update, note that it might take a few minutes for the changes to be reflected in the system.

## Request Syntax

```
PUT /v1/batch-update-recommendation-resource-exclusion HTTP/1.1
Content-type: application/json

{
  "recommendationResourceExclusions": [
    {
      "arn": "string",
      "isExcluded": boolean
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [recommendationResourceExclusions](#)

A list of recommendation resource ARNs and exclusion status to update

Type: Array of [RecommendationResourceExclusion](#) objects

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

Required: Yes

## Response Syntax

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

{
  "batchUpdateRecommendationResourceExclusionErrors": [
    {
      "arn": "string",
      "errorCode": "string",
      "errorMessage": "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.

### [batchUpdateRecommendationResourceExclusionErrors](#)

A list of recommendation resource ARNs whose exclusion status failed to update, if any

Type: Array of [UpdateRecommendationResourceExclusionError](#) objects

## Errors

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

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **ConflictException**

Exception that the request was denied due to conflicts in state

HTTP Status Code: 409

## InternalServerErrorException

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

## ThrottlingException

Exception to notify that requests are being throttled

HTTP Status Code: 429

## ValidationException

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### Update one or more exclusion status for a list of recommendation resources

Batch update one or more exclusion status for a list of recommendation resources

#### Sample Request

```
{
    "recommendationResourceExclusions": [
        {
            "arn": "arn:aws:trustedadvisor::000000000000:recommendation-
resource/55fa4d2e-
bbb7-491a-833b-5773e9589578/18959a1f1973cff8e706e9d9bde28bba36cd602a6b2cb86c8b61252835236010",
            "isExcluded": true
        }
    ]
}
```

#### Sample Response

```
{
    "batchUpdateRecommendationResourceExclusionErrors": [
        {
```

```
    "arn": "arn:aws:trustedadvisor::000000000000:recommendation-  
resource/55fa4d2e-  
bbb7-491a-833b-5773e9589578/18959a1f1973cff8e706e9d9bde28bba36cd602a6b2cb86c8b61252835236010",  
    "errorCode": "404",  
    "errorMessage": "Exception that the requested resource has not been  
found"  
  }  
]  
}
```

## 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](#)

# GetOrganizationRecommendation

Get a specific recommendation within an AWS Organizations organization. This API supports only prioritized recommendations and provides global priority recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/organization-recommendations/organizationRecommendationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### organizationRecommendationIdentifier

The Recommendation identifier

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `^arn:[\w-]+:trustedadvisor:::organization-recommendation\[/[\w-]+\]$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "organizationRecommendation": {
    "arn": "string",
    "awsServices": [ "string" ],
    "checkArn": "string",
    "createdAt": "string",
    "createdBy": "string",
    "description": "string",
```

```
"id": "string",
"lastUpdatedAt": "string",
"lifecycleStage": "string",
"name": "string",
"pillars": [ "string" ],
"pillarSpecificAggregates": {
  "costOptimizing": {
    "estimatedMonthlySavings": number,
    "estimatedPercentMonthlySavings": number
  }
},
"resolvedAt": "string",
"resourcesAggregates": {
  "errorCount": number,
  "okCount": number,
  "warningCount": number
},
"source": "string",
"status": "string",
"type": "string",
"updatedOnBehalfOf": "string",
"updatedOnBehalfOfJobTitle": "string",
"updateReason": "string",
"updateReasonCode": "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.

### organizationRecommendation

The Recommendation

Type: [OrganizationRecommendation](#) object

## Errors

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

## AccessDeniedException

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

## InternalServerError

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

## ResourceNotFoundException

Exception that the requested resource has not been found

HTTP Status Code: 404

## ThrottlingException

Exception to notify that requests are being throttled

HTTP Status Code: 429

## ValidationException

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### Get Organization Recommendation

Get an organization recommendation by identifier.

#### Sample Request

```
{
    "organizationRecommendationIdentifier":
    "arn:aws:trustedadvisor:::organization-recommendation/9534ec9b-
    bf3a-44e8-8213-2ed68b39d9d5"
}
```



## Sample Response

```
{
    "organizationRecommendation": {
        "arn": "arn:aws:trustedadvisor::organization-
recommendation/9534ec9b-bf3a-44e8-8213-2ed68b39d9d5",
        "name": "Lambda Runtime Deprecation Warning",
        "description": "One or more lambdas are using a deprecated
runtime",
        "awsServices": [
            "lambda"
        ],
        "checkArn": "arn:aws:trustedadvisor::check/L4dfs2Q4C5",
        "id": "9534ec9b-bf3a-44e8-8213-2ed68b39d9d5",
        "lifecycleStage": "resolved",
        "pillars": [
            "security"
        ],
        "resourcesAggregates": {
            "errorCount": 0,
            "okCount": 0,
            "warningCount": 0
        },
        "source": "ta_check",
        "status": "warning",
        "type": "priority"
    }
}
```

## 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](#)

# GetRecommendation

Get a specific Recommendation. This API provides global recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/recommendations/recommendationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### recommendationIdentifier

The Recommendation identifier

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation\#[\w-]+$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "recommendation": {
    "arn": "string",
    "awsServices": [ "string" ],
    "checkArn": "string",
    "createdAt": "string",
    "createdBy": "string",
    "description": "string",
```

```
"id": "string",
"lastUpdatedAt": "string",
"lifecycleStage": "string",
"name": "string",
"pillars": [ "string" ],
"pillarSpecificAggregates": {
  "costOptimizing": {
    "estimatedMonthlySavings": number,
    "estimatedPercentMonthlySavings": number
  }
},
"resolvedAt": "string",
"resourcesAggregates": {
  "errorCount": number,
  "okCount": number,
  "warningCount": number
},
"source": "string",
"status": "string",
"type": "string",
"updatedOnBehalfOf": "string",
"updatedOnBehalfOfJobTitle": "string",
"updateReason": "string",
"updateReasonCode": "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.

### recommendation

The Recommendation

Type: [Recommendation](#) object

## Errors

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

## AccessDeniedException

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

## InternalServerError

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

## ResourceNotFoundException

Exception that the requested resource has not been found

HTTP Status Code: 404

## ThrottlingException

Exception to notify that requests are being throttled

HTTP Status Code: 429

## ValidationException

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### Get A Recommendation

Get a recommendation by identifier.

### Sample Request

```
{
    "recommendationIdentifier":
    "arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
    bbb7-491a-833b-5773e9589578",
}
```

## Sample Response

```
{
    "recommendation": {
        "arn":
            "arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
            bbb7-491a-833b-5773e9589578",
        "name": "MFA Recommendation",
        "description": "Enable multi-factor authentication",
        "awsServices": [
            "iam"
        ],
        "checkArn": "arn:aws:trustedadvisor:::check/7DAFEmoDos",
        "id": "55fa4d2e-bbb7-491a-833b-5773e9589578",
        "lastUpdatedAt": "2023-11-01T15:57:58.673Z",
        "pillarSpecificAggregates": {
            "costOptimizing": {
                "estimatedMonthlySavings": 0.0,
                "estimatedPercentMonthlySavings": 0.0
            }
        },
        "pillars": [
            "security"
        ],
        "resourcesAggregates": {
            "errorCount": 1,
            "okCount": 0,
            "warningCount": 0
        },
        "source": "ta_check",
        "status": "error",
        "type": "standard"
    }
}
```

## 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](#)

# ListChecks

List a filterable set of Checks. This API provides global recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/checks?  
awsService=awsService&language=language&maxResults=maxResults&nextToken=nextToken&pillar=pillar  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [awsService](#)

The aws service associated with the check

Length Constraints: Minimum length of 2. Maximum length of 30.

### [language](#)

The ISO 639-1 code for the language that you want your checks to appear in.

Valid Values: en | ja | zh | fr | de | ko | zh\_TW | it | es | pt\_BR | id

### [maxResults](#)

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 200.

### [nextToken](#)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 4. Maximum length of 10000.

### [pillar](#)

The pillar of the check



Valid Values: `cost_optimizing` | `performance` | `security` | `service_limits` | `fault_tolerance` | `operational_excellence`

### [source](#)

The source of the check

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "checkSummaries": [
    {
      "arn": "string",
      "awsServices": [ "string" ],
      "description": "string",
      "id": "string",
      "metadata": {
        "string" : "string"
      },
      "name": "string",
      "pillars": [ "string" ],
      "source": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### checkSummaries

The list of Checks

Type: Array of [CheckSummary](#) objects

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 10000.

## Errors

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

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **InternalServerError**

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

### **ThrottlingException**

Exception to notify that requests are being throttled

HTTP Status Code: 429

### **ValidationException**

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### List Checks With A Max Result

List at most two Checks.

#### Sample Request

```
{
    "maxResults": 2
}
```

#### Sample Response

```
{
    "checkSummaries": [
        {
            "arn": "arn:aws:trustedadvisor:::check/1iG5NDGVre",
            "awsServices": [
                "EC2"
            ],
            "description": "Checks security groups for rules that allow unrestricted access to a resource. Unrestricted access increases opportunities for malicious activity (hacking, denial-of-service attacks, loss of data)",
            "id": "1iG5NDGVre",
            "metadata": {
                "0": "Region",
                "1": "Security Group Name",
                "2": "Security Group ID",
                "3": "Protocol",
                "4": "Port",
                "5": "Status",
                "6": "IP Range"
            },
            "name": "Security Groups - Unrestricted Access",
            "pillars": [
                "security"
            ],
            "source": "ta_check"
        },
        {
            "arn": "arn:aws:trustedadvisor:::check/1qazXsw23e",
            "awsServices": [
```

```

    "RDS"
  ],
  "description": "Checks your usage of RDS and provides
recommendations on purchase of Reserved Instances to help reduce costs incurred
from using RDS On-Demand. AWS generates these recommendations by analyzing your On-
Demand usage for the past 30 days. We then simulate every combination of reservations
in the generated category of usage in order to identify the best number of each
type of Reserved Instance to purchase to maximize your savings. This check covers
recommendations based on partial upfront payment option with 1-year or 3-year
commitment. This check is not available to accounts linked in Consolidated Billing.
Recommendations are only available for the Paying Account.",
  "id": "1qazXsw23e",
  "metadata": {
    "0": "Region",
    "1": "Family",
    "2": "Instance Type",
    "3": "License Model",
    "4": "Database Edition",
    "5": "Database Engine",
    "6": "Deployment Option",
    "7": "Recommended number of Reserved Instances to purchase",
    "8": "Expected Average Reserved Instance Utilization",
    "9": "Estimated Savings with Recommendation (monthly)"
    "10": "Upfront Cost of Reserved Instances",
    "11": "Estimated cost of Reserved Instances (monthly)",
    "12": "Estimated On-Demand Cost Post Recommended Reserved Instance
Purchase (monthly)",
    "13": "Estimated Break Even (months)",
    "14": "Lookback Period (days)",
    "15": "Term (years)"
  },
  "name": "Amazon Relational Database Service (RDS) Reserved Instance
Optimization",
  "pillars": [
    "cost_optimizing"
  ],
  "source": "ta_check"
},
{
  "arn": "arn:aws:trustedadvisor:::check/1qw23er45t",
  "awsServices": [
    "Redshift"
  ],

```

```
    "description": "Checks your usage of Redshift and provides
recommendations on purchase of Reserved Nodes to help reduce costs incurred from using
Redshift On-Demand. AWS generates these recommendations by analyzing your On-Demand
usage for the past 30 days. We then simulate every combination of reservations in
the generated category of usage in order to identify the best number of each type of
Reserved Nodes to purchase to maximize your savings. This check covers recommendations
based on partial upfront payment option with 1-year or 3-year commitment. This check
is not available to accounts linked in Consolidated Billing. Recommendations are only
available for the Paying Account.",
    "id": "1qw23er45t",
    "metadata": {
      "0": "Region",
      "1": "Family",
      "2": "Node Type",
      "3": "Recommended number of Reserved Nodes to purchase",
      "4": "Expected Average Reserved Node Utilization",
      "5": "Estimated Savings with Recommendation (monthly)",
      "6": "Upfront Cost of Reserved Nodes",
      "7": "Estimated cost of Reserved Nodes (monthly)",
      "8": "Estimated On-Demand Cost Post Recommended Reserved Nodes
Purchase (monthly)",
      "9": "Estimated Break Even (months)",
      "10": "Lookback Period (days)",
      "11": "Term (years)",
    },
    "name": "Amazon Redshift Reserved Node Optimization",
    "pillars": [
      "cost_optimizing"
    ],
    "source": "ta_check"
  },
  ],
  "nextToken": "REDACTED"
}
```

## 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](#)
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# ListOrganizationRecommendationAccounts

Lists the accounts that own the resources for an organization aggregate recommendation. This API only supports prioritized recommendations and provides global priority recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/organization-recommendations/organizationRecommendationIdentifier/accounts?  
affectedAccountId=affectedAccountId&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### affectedAccountId

An account affected by this organization recommendation

Length Constraints: Fixed length of 12.

Pattern:  $^\backslash d+\$$

### maxResults

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 200.

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 4. Maximum length of 10000.

### organizationRecommendationIdentifier

The Recommendation identifier

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern:  $^arn:[\backslash w-]+:trustedadvisor:::organization-recommendation\backslash/[\backslash w-]+\$$

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "accountRecommendationLifecycleSummaries": [
    {
      "accountId": "string",
      "accountRecommendationArn": "string",
      "lastUpdatedAt": "string",
      "lifecycleStage": "string",
      "updatedOnBehalfOf": "string",
      "updatedOnBehalfOfJobTitle": "string",
      "updateReason": "string",
      "updateReasonCode": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### accountRecommendationLifecycleSummaries

The account recommendations lifecycles that are applicable to the Recommendation

Type: Array of [AccountRecommendationLifecycleSummary](#) objects

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String



Length Constraints: Minimum length of 4. Maximum length of 10000.

## Errors

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

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **InternalServerErrorException**

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

### **ResourceNotFoundException**

Exception that the requested resource has not been found

HTTP Status Code: 404

### **ThrottlingException**

Exception to notify that requests are being throttled

HTTP Status Code: 429

### **ValidationException**

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### **List Accounts For An Organization Recommendation**

List all account recommendation summaries for an organization recommendation by its identifier.

#### **Sample Request**

```
{
```

```
        "organizationRecommendationIdentifier":
          "arn:aws:trustedadvisor::organization-recommendation/9534ec9b-
          bf3a-44e8-8213-2ed68b39d9d5"
      }
```

## Sample Response

```
{
  "accountRecommendationLifecycleSummaries": [{
    "accountId": "000000000000",
    "accountRecommendationArn":
      "arn:aws:trustedadvisor::000000000000:recommendation/9534ec9b-
      bf3a-44e8-8213-2ed68b39d9d5",
    "lifecycleStage": "resolved",
    "updateReason": "Resolved issue",
    "updateReasonCode": "valid_business_case",
    "lastUpdatedAt": "2023-01-17T18:25:44.552Z"
  }],
  "nextToken": "REDACTED"
}
```

## 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](#)

# ListOrganizationRecommendationResources

List Resources of a Recommendation within an Organization. This API only supports prioritized recommendations and provides global priority recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/organization-recommendations/organizationRecommendationIdentifier/resources?
affectedAccountId=affectedAccountId&exclusionStatus=exclusionStatus&maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### affectedAccountId

An account affected by this organization recommendation

Length Constraints: Fixed length of 12.

Pattern: `^\d+$`

### exclusionStatus

The exclusion status of the resource

Valid Values: `excluded` | `included`

### maxResults

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 200.

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 4. Maximum length of 10000.

## organizationRecommendationIdentifier

The AWS Organization organization's Recommendation identifier

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `^arn:[\w-]+:trustedadvisor:::organization-recommendation\[/[\w-]+\$`

Required: Yes

## regionCode

The AWS Region code of the resource

## status

The status of the resource

Valid Values: `ok` | `warning` | `error`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "organizationRecommendationResourceSummaries": [
    {
      "accountId": "string",
      "arn": "string",
      "awsResourceId": "string",
      "exclusionStatus": "string",
      "id": "string",
      "lastUpdatedAt": "string",
      "metadata": {
        "string": "string"
      },
      "recommendationArn": "string",
      "regionCode": "string",
      "status": "string"
    }
  ]
}
```

```
    }  
  ]  
}
```

## Response Elements

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

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

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 10000.

### organizationRecommendationResourceSummaries

A list of Recommendation Resources

Type: Array of [OrganizationRecommendationResourceSummary](#) objects

## Errors

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

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **InternalServerError**

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

### **ResourceNotFoundException**

Exception that the requested resource has not been found

HTTP Status Code: 404

## ThrottlingException

Exception to notify that requests are being throttled

HTTP Status Code: 429

## ValidationException

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### List All Organization Recommendation Resources

List all resources for an organization recommendation by its identifier.

#### Sample Request

```
{
    "organizationRecommendationIdentifier":
    "arn:aws:trustedadvisor::organization-recommendation/5a694939-2e54-45a2-
    ae72-730598fa89d0"
}
```

#### Sample Response

```
{
    "organizationRecommendationResourceSummaries": [
    {
        "arn": "arn:aws:trustedadvisor::000000000000:recommendation-
        resource/5a694939-2e54-45a2-ae72-730598fa89d0/
        bb38affc0ce0681d9a6cd13f30238ba03a8f63dfe7a379dc403c619119d86af",
        "awsResourceId": "database-1-instance-1",
        "id":
        "bb38affc0ce0681d9a6cd13f302383ba03a8f63dfe7a379dc403c619119d86af",
        "lastUpdatedAt": "2023-11-01T15:09:51.891Z",
        "metadata": {
            "0": "14",
            "1": "208.79999999999998",
            "2": "database-1-instance-1",
            "3": "db.r5.large",

```

```

      "4": "false",
      "5": "us-west-2",
      "6": "arn:aws:rds:us-west-2:000000000000:db:database-1-instance-1",
      "7": "1"
    },
    "recommendationArn": "arn:aws:trustedadvisor::organization-
recommendation/5a694939-2e54-45a2-ae72-730598fa89d0",
    "regionCode": "us-west-2",
    "exclusionStatus": "included",
    "status": "warning"
  },
  {
    "arn": "arn:aws:trustedadvisor::000000000000:recommendation-
resource/5a694939-2e54-45a2-
ae72-730598fa89d0/51fded4d7a3278818df9cfe344ff5762cec46c095a6763d1ba1ba53bd0e1b0e6",
    "awsResourceId": "database-1",
    "id":
"51fded4d7a3278818df9cfe344ff5762cec46c095a6763d1ba1ba53bd0e1b0e6",
    "lastUpdatedAt": "2023-11-01T15:09:51.891Z",
    "metadata": {
      "0": "14",
      "1": "31.679999999999996",
      "2": "database-1",
      "3": "db.t3.small",
      "4": "false",
      "5": "us-west-2",
      "6": "arn:aws:rds:us-west-2:000000000000:db:database-1",
      "7": "20"
    },
    "recommendationArn": "arn:aws:trustedadvisor::organization-
recommendation/5a694939-2e54-45a2-ae72-730598fa89d0",
    "regionCode": "us-west-2",
    "exclusionStatus": "included",
    "status": "warning"
  },
  {
    "arn": "arn:aws:trustedadvisor::000000000000:recommendation-
resource/5a694939-2e54-45a2-ae72-730598fa89d0/
f4d01bd20f4cd5372062aafc8786c489e48f0ead7cdab121463bf9f89e40a36b",
    "awsResourceId": "database-2-instance-1-us-west-2a",
    "id":
"f4d01bd20f4cd5372062aafc8786c489e48f0ead7cdab121463bf9f89e40a36b",
    "lastUpdatedAt": "2023-11-01T15:09:51.891Z",
    "metadata": {

```

```
    "0": "14",
    "1": "187.200000000000002",
    "2": "database-2-instance-1-us-west-2a",
    "3": "db.r6g.large",
    "4": "true",
    "5": "us-west-2",
    "6": "arn:aws:rds:us-west-2:000000000000:db:database-2-instance-1-
us-west-2a",
    "7": "1"
  },
  "recommendationArn": "arn:aws:trustedadvisor:::organization-
recommendation/5a694939-2e54-45a2-ae72-730598fa89d0",
  "regionCode": "us-west-2",
  "exclusionStatus": "included",
  "status": "warning"
},
],
"nextToken": "REDACTED"
}
```

## 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](#)



# ListOrganizationRecommendations

List a filterable set of Recommendations within an Organization. This API only supports prioritized recommendations and provides global priority recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/organization-recommendations?  
afterLastUpdatedAt=afterLastUpdatedAt&awsService=awsService&beforeLastUpdatedAt=beforeLastUpdatedAt  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### afterLastUpdatedAt

After the last update of the Recommendation

### awsService

The aws service associated with the Recommendation

Length Constraints: Minimum length of 2. Maximum length of 30.

### beforeLastUpdatedAt

Before the last update of the Recommendation

### checkIdentifier

The check identifier of the Recommendation

Length Constraints: Minimum length of 20. Maximum length of 64.

Pattern: `^arn:[\w-]+:trustedadvisor:::check\[/[\w-]+\$`

### maxResults

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 200.

## nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 4. Maximum length of 10000.

## pillar

The pillar of the Recommendation

Valid Values: `cost_optimizing` | `performance` | `security` | `service_limits` | `fault_tolerance` | `operational_excellence`

## source

The source of the Recommendation

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

## status

The status of the Recommendation

Valid Values: `ok` | `warning` | `error`

## type

The type of the Recommendation

Valid Values: `standard` | `priority`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "nextToken": "string",
  "organizationRecommendationSummaries": [
    {
      "arn": "string",
      "awsServices": [ "string" ],
      "checkArn": "string",
      "createdAt": "string",
      "id": "string",
      "lastUpdatedAt": "string",
      "lifecycleStage": "string",
      "name": "string",
      "pillars": [ "string" ],
      "pillarSpecificAggregates": {
        "costOptimizing": {
          "estimatedMonthlySavings": number,
          "estimatedPercentMonthlySavings": number
        }
      },
      "resourcesAggregates": {
        "errorCount": number,
        "okCount": number,
        "warningCount": number
      },
      "source": "string",
      "status": "string",
      "type": "string"
    }
  ]
}
```

## Response Elements

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

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

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 10000.

### [organizationRecommendationSummaries](#)

The list of Recommendations

Type: Array of [OrganizationRecommendationSummary](#) objects

## Errors

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

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **InternalServerError**

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

### **ThrottlingException**

Exception to notify that requests are being throttled

HTTP Status Code: 429

### **ValidationException**

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### **List All Organization Recommendations**

List all organization recommendations and do not include a filter.

## Sample Response

```
{
  "organizationRecommendationSummaries": [
    {
      "arn": "arn:aws:trustedadvisor::organization-
recommendation/9534ec9b-bf3a-44e8-8213-2ed68b39d9d5",
      "name": "Lambda Runtime Deprecation Warning",
      "awsServices": [
        "lambda"
      ],
      "checkArn": "arn:aws:trustedadvisor::check/L4dfs2Q4C5",
      "id": "9534ec9b-bf3a-44e8-8213-2ed68b39d9d5",
      "lifecycleStage": "resolved",
      "pillars": [
        "security"
      ],
      "resourcesAggregates": {
        "errorCount": 0,
        "okCount": 0,
        "warningCount": 0
      },
      "source": "ta_check",
      "status": "warning",
      "type": "priority"
    },
    {
      "arn": "arn:aws:trustedadvisor::organization-
recommendation/4ecff4d4-1bc1-4c99-a5b8-0fff9ee500d6",
      "name": "Lambda Runtime Deprecation Warning",
      "awsServices": [
        "lambda"
      ],
      "checkArn": "arn:aws:trustedadvisor::check/L4dfs2Q4C5",
      "id": "4ecff4d4-1bc1-4c99-a5b8-0fff9ee500d6",
      "lifecycleStage": "resolved",
      "pillars": [
        "security"
      ],
      "resourcesAggregates": {
        "errorCount": 0,
        "okCount": 0,
        "warningCount": 0
      },
    }
  ]
}
```

```
"source": "ta_check",
"status": "warning",
"type": "priority"
},
],
"nextToken": "REDACTED"
}
```

## List Organization Recommendations With Filter

Filter and return a max of one organization recommendation that is a part of the "security" pillar.

### Sample Request

```
{
    "pillar": "security",
    "maxResults": 100
}
```

### Sample Response

```
{
    "organizationRecommendationSummaries": [{
        "arn": "arn:aws:trustedadvisor::organization-recommendation/9534ec9b-bf3a-44e8-8213-2ed68b39d9d5",
        "name": "Lambda Runtime Deprecation Warning",
        "awsServices": [
            "lambda"
        ],
        "checkArn": "arn:aws:trustedadvisor::check/L4dfs2Q4C5",
        "id": "9534ec9b-bf3a-44e8-8213-2ed68b39d9d5",
        "lifecycleStage": "resolved",
        "pillars": [
            "security"
        ],
        "resourcesAggregates": {
            "errorCount": 0,
            "okCount": 0,
            "warningCount": 0
        },
        "source": "ta_check",
        "status": "warning",
        "type": "priority"
    }
]
```

```
    ]],  
    "nextToken": "REDACTED"  
  }  
}
```

## Fetch The Next Page Of A Previous Request

Use the "nextToken" returned from a previous request to fetch the next page of filtered organization recommendations that are a part of the "security" pillar.

### Sample Request

```
{  
  "nextToken": "REDACTED",  
  "pillar": "security",  
  "maxResults": 100  
}
```

### Sample Response

```
{  
  "organizationRecommendationSummaries": [{  
    "arn": "arn:aws:trustedadvisor::organization-recommendation/4ecff4d4-1bc1-4c99-a5b8-0fff9ee500d6",  
    "name": "Lambda Runtime Deprecation Warning",  
    "awsServices": [  
      "lambda"  
    ],  
    "checkArn": "arn:aws:trustedadvisor::check/L4dfs2Q4C5",  
    "id": "4ecff4d4-1bc1-4c99-a5b8-0fff9ee500d6",  
    "lifecycleStage": "resolved",  
    "pillars": [  
      "security"  
    ],  
    "resourcesAggregates": {  
      "errorCount": 0,  
      "okCount": 0,  
      "warningCount": 0  
    },  
    "source": "ta_check",  
    "status": "warning",  
    "type": "priority"  
  }]  
}
```

}

## 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](#)



# ListRecommendationResources

List Resources of a Recommendation. This API provides global recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/recommendations/recommendationIdentifier/resources?  
exclusionStatus=exclusionStatus&maxResults=maxResults&nextToken=nextToken&regionCode=regionCode  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### exclusionStatus

The exclusion status of the resource

Valid Values: `excluded` | `included`

### maxResults

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 200.

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 4. Maximum length of 10000.

### recommendationIdentifier

The Recommendation identifier

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation\[/[\w-]+\]$`

Required: Yes

## regionCode

The AWS Region code of the resource

## status

The status of the resource

Valid Values: ok | warning | error

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "recommendationResourceSummaries": [
    {
      "arn": "string",
      "awsResourceId": "string",
      "exclusionStatus": "string",
      "id": "string",
      "lastUpdatedAt": "string",
      "metadata": {
        "string" : "string"
      },
      "recommendationArn": "string",
      "regionCode": "string",
      "status": "string"
    }
  ]
}
```

## Response Elements

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

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

## nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 10000.

## recommendationResourceSummaries

A list of Recommendation Resources

Type: Array of [RecommendationResourceSummary](#) objects

## Errors

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

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **InternalServerErrorException**

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

### **ResourceNotFoundException**

Exception that the requested resource has not been found

HTTP Status Code: 404

### **ThrottlingException**

Exception to notify that requests are being throttled

HTTP Status Code: 429

### **ValidationException**

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### List All Recommendation Resources

List all resources for a recommendation by its identifier.

#### Sample Request

```
{
  "recommendationIdentifier":
  "arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
bbb7-491a-833b-5773e9589578"
}
```

#### Sample Response

```
{
  "recommendationResourceSummaries": [
    {
      "arn": "arn:aws:trustedadvisor::000000000000:recommendation-
resource/55fa4d2e-
bbb7-491a-833b-5773e9589578/18959a1f1973cff8e706e9d9bde28bba36cd602a6b2cb86c8b61252835236010",
      "id":
      "18959a1f1973cff8e706e9d9bde28bba36cd602a6b2cb86c8b61252835236010",
      "awsResourceId": "webcms-dev-01",
      "lastUpdatedAt": "2023-11-01T15:09:51.891Z",
      "metadata": {
        "0": "14",
        "1": "123.120000000000002",
        "2": "webcms-dev-01",
        "3": "db.m6i.large",
        "4": "false",
        "5": "us-east-1",
        "6": "arn:aws:rds:us-east-1:000000000000:db:webcms-dev-01",
        "7": "20"
      },
      "recommendationArn":
      "arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
bbb7-491a-833b-5773e9589578",
      "regionCode": "us-east-1",
      "exclusionStatus": "included",
      "status": "warning"
    },
  ],
}
```

```

    {
      "arn": "arn:aws:trustedadvisor::000000000000:recommendation-
resource/55fa4d2e-bbb7-491a-833b-5773e9589578/
e6367ff500ac90db8e4adeb4892e39ee9c36bbf812dcbce4b9e4fefcec9eb63e",
      "id":
        "e6367ff500ac90db8e4adeb4892e39ee9c36bbf812dcbce4b9e4fefcec9eb63e",
      "awsResourceId": "aws-dev-db-stack-instance-1",
      "lastUpdatedAt": "2023-11-01T15:09:51.891Z",
      "metadata": {
        "0": "14",
        "1": "29.52",
        "2": "aws-dev-db-stack-instance-1",
        "3": "db.t2.small",
        "4": "false",
        "5": "us-east-1",
        "6": "arn:aws:rds:us-east-1:000000000000:db:aws-dev-db-stack-
instance-1",
        "7": "1"
      },
      "recommendationArn":
        "arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
bbb7-491a-833b-5773e9589578",
      "regionCode": "us-east-1",
      "exclusionStatus": "included",
      "status": "warning"
    },
    {
      "arn": "arn:aws:trustedadvisor::000000000000:recommendation-
resource/55fa4d2e-
bbb7-491a-833b-5773e9589578/31aa78ba050a5015d2d38cca7f5f1ce88f70857c4e1c3ad03f8f9fd95dad7459",
      "id":
        "31aa78ba050a5015d2d38cca7f5f1ce88f70857c4e1c3ad03f8f9fd95dad7459",
      "awsResourceId": "aws-awesome-apps-stack-db",
      "lastUpdatedAt": "2023-11-01T15:09:51.891Z",
      "metadata": {
        "0": "14",
        "1": "114.48000000000002",
        "2": "aws-awesome-apps-stack-db",
        "3": "db.m6g.large",
        "4": "false",
        "5": "us-east-1",
        "6": "arn:aws:rds:us-east-1:000000000000:db:aws-awesome-apps-stack-
db",
        "7": "100"
      }
    }
  ]
}

```

```
    },
    "recommendationArn":
      "arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
      bbb7-491a-833b-5773e9589578",
    "regionCode": "us-east-1",
    "exclusionStatus": "included",
    "status": "warning"
  }
],
"nextToken": "REDACTED"
}
```

## 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](#)

# ListRecommendations

List a filterable set of Recommendations. This API provides global recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
GET /v1/recommendations?  
afterLastUpdatedAt=afterLastUpdatedAt&awsService=awsService&beforeLastUpdatedAt=beforeLastUpdatedAt  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [afterLastUpdatedAt](#)

After the last update of the Recommendation

### [awsService](#)

The aws service associated with the Recommendation

Length Constraints: Minimum length of 2. Maximum length of 30.

### [beforeLastUpdatedAt](#)

Before the last update of the Recommendation

### [checkIdentifier](#)

The check identifier of the Recommendation

Length Constraints: Minimum length of 20. Maximum length of 64.

Pattern: `^arn:[\w-]+:trustedadvisor:::check\[ [\w- ]+\$`

### [maxResults](#)

The maximum number of results to return per page.

Valid Range: Minimum value of 1. Maximum value of 200.

## nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Length Constraints: Minimum length of 4. Maximum length of 10000.

## pillar

The pillar of the Recommendation

Valid Values: `cost_optimizing` | `performance` | `security` | `service_limits` | `fault_tolerance` | `operational_excellence`

## source

The source of the Recommendation

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

## status

The status of the Recommendation

Valid Values: `ok` | `warning` | `error`

## type

The type of the Recommendation

Valid Values: `standard` | `priority`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```



Content-type: application/json

```
{
  "nextToken": "string",
  "recommendationSummaries": [
    {
      "arn": "string",
      "awsServices": [ "string" ],
      "checkArn": "string",
      "createdAt": "string",
      "id": "string",
      "lastUpdatedAt": "string",
      "lifecycleStage": "string",
      "name": "string",
      "pillars": [ "string" ],
      "pillarSpecificAggregates": {
        "costOptimizing": {
          "estimatedMonthlySavings": number,
          "estimatedPercentMonthlySavings": number
        }
      },
      "resourcesAggregates": {
        "errorCount": number,
        "okCount": number,
        "warningCount": number
      },
      "source": "string",
      "status": "string",
      "type": "string"
    }
  ]
}
```

## Response Elements

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

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

### nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 10000.

### [recommendationSummaries](#)

The list of Recommendations

Type: Array of [RecommendationSummary](#) objects

## Errors

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

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **InternalServerErrorException**

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

### **ThrottlingException**

Exception to notify that requests are being throttled

HTTP Status Code: 429

### **ValidationException**

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### **List All Recommendations**

List all recommendations and do not include a filter.

## Sample Response

```
{
  "recommendationSummaries": [
    {
      "arn":
"arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
bbb7-491a-833b-5773e9589578",
      "name": "MFA Recommendation",
      "awsServices": [
        "iam"
      ],
      "checkArn": "arn:aws:trustedadvisor:::check/7DAFEmoDos",
      "id": "55fa4d2e-bbb7-491a-833b-5773e9589578",
      "lastUpdatedAt": "2023-11-01T15:57:58.673Z",
      "pillarSpecificAggregates": {
        "costOptimizing": {
          "estimatedMonthlySavings": 0.0,
          "estimatedPercentMonthlySavings": 0.0
        }
      },
      "pillars": [
        "security"
      ],
      "resourcesAggregates": {
        "errorCount": 1,
        "okCount": 0,
        "warningCount": 0
      },
      "source": "ta_check",
      "status": "error",
      "type": "standard"
    },
    {
      "arn":
"arn:aws:trustedadvisor::000000000000:recommendation/8b602b6f-452d-4cb2-8a9e-
c7650955d9cd",
      "name": "RDS clusters quota warning",
      "awsServices": [
        "rds"
      ],
      "checkArn": "arn:aws:trustedadvisor:::check/gjqMBn6pjz",
      "id": "8b602b6f-452d-4cb2-8a9e-c7650955d9cd",
      "lastUpdatedAt": "2023-11-01T15:58:17.397Z",
```

```
"pillarSpecificAggregates": {
  "costOptimizing": {
    "estimatedMonthlySavings": 0.0,
    "estimatedPercentMonthlySavings": 0.0
  }
},
"pillars": [
  "service_limits"
],
"resourcesAggregates": {
  "errorCount": 0,
  "okCount": 3,
  "warningCount": 6
},
"source": "ta_check",
"status": "warning",
"type": "standard"
}
],
"nextToken": "REDACTED"
}
```

## List Recommendations With Filter

Filter and return a max of one Recommendation that regards AWS IAM.

### Sample Request

```
{
  "awsService": "iam",
  "maxResults": 100
}
```

### Sample Response

```
{
  "recommendationSummaries": [{
    "arn":
      "arn:aws:trustedadvisor::000000000000:recommendation/55fa4d2e-
      bbb7-491a-833b-5773e9589578",
    "name": "MFA Recommendation",
    "awsServices": [
      "iam"
    ]
  }
]
```

```
    ],
    "checkArn": "arn:aws:trustedadvisor:::check/7DAFEmoDos",
    "id": "55fa4d2e-bbb7-491a-833b-5773e9589578",
    "lastUpdatedAt": "2023-11-01T15:57:58.673Z",
    "pillarSpecificAggregates": {
      "costOptimizing": {
        "estimatedMonthlySavings": 0.0,
        "estimatedPercentMonthlySavings": 0.0
      }
    },
    "pillars": [
      "security"
    ],
    "resourcesAggregates": {
      "errorCount": 1,
      "okCount": 0,
      "warningCount": 0
    },
    "source": "ta_check",
    "status": "error",
    "type": "standard"
  }],
  "nextToken": "REDACTED"
}
```

## Fetch The Next Page Of A Previous Request

Use the "nextToken" returned from a previous request to fetch the next page of filtered Recommendations.

### Sample Request

```
{
  "nextToken": "REDACTED",
  "awsService": "rds",
  "maxResults": 100
}
```

### Sample Response

```
{
  "recommendationSummaries": [{
```

```
    "arn":
      "arn:aws:trustedadvisor::000000000000:recommendation/8b602b6f-452d-4cb2-8a9e-
c7650955d9cd",
      "name": "RDS clusters quota warning",
      "awsServices": [
        "rds"
      ],
      "checkArn": "arn:aws:trustedadvisor:::check/gjqMBn6pjz",
      "id": "8b602b6f-452d-4cb2-8a9e-c7650955d9cd",
      "lastUpdatedAt": "2023-11-01T15:58:17.397Z",
      "pillarSpecificAggregates": {
        "costOptimizing": {
          "estimatedMonthlySavings": 0.0,
          "estimatedPercentMonthlySavings": 0.0
        }
      },
      "pillars": [
        "service_limits"
      ],
      "resourcesAggregates": {
        "errorCount": 0,
        "okCount": 3,
        "warningCount": 6
      },
      "source": "ta_check",
      "status": "warning",
      "type": "standard"
    }
  ]
}
```

## 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](#)

# UpdateOrganizationRecommendationLifecycle

Update the lifecycle of a Recommendation within an Organization. This API only supports prioritized recommendations and updates global priority recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
PUT /v1/organization-recommendations/organizationRecommendationIdentifier/lifecycle
HTTP/1.1
Content-type: application/json

{
  "lifecycleStage": "string",
  "updateReason": "string",
  "updateReasonCode": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### organizationRecommendationIdentifier

The Recommendation identifier for AWS Trusted Advisor Priority recommendations

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `^arn:[\w-]+:trustedadvisor:::organization-recommendation\[/[\w-]+\]`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### lifecycleStage

The new lifecycle stage

Type: String



Valid Values: `pending_response` | `in_progress` | `dismissed` | `resolved`

Required: Yes

### updateReason

Reason for the lifecycle stage change

Type: String

Length Constraints: Minimum length of 10. Maximum length of 4096.

Pattern: `^\s\S]*$`

Required: No

### updateReasonCode

Reason code for the lifecycle state change

Type: String

Valid Values: `non_critical_account` | `temporary_account` | `valid_business_case` | `other_methods_available` | `low_priority` | `not_applicable` | `other`

Required: No

## 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](#).

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

### **ConflictException**

Exception that the request was denied due to conflicts in state

HTTP Status Code: 409

### **InternalServerErrorException**

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

### **ResourceNotFoundException**

Exception that the requested resource has not been found

HTTP Status Code: 404

### **ThrottlingException**

Exception to notify that requests are being throttled

HTTP Status Code: 429

### **ValidationException**

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## **Examples**

### **Update the Lifecycle of an Organization Recommendation**

Update the lifecycle stage of an organization recommendation that is managed by AWS Trusted Advisor Priority.

#### **Sample Request**

```
{
    "organizationRecommendationIdentifier":
    "arn:aws:trustedadvisor:::organization-
    recommendation/96b5e5ca-7930-444c-90c6-06d386128100",
```

```
"lifecycleStage": "dismissed",  
"updateReasonCode": "not_applicable",  
"updateReason": "Does not apply to this resource"  
}
```

## 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](#)

# UpdateRecommendationLifecycle

Update the lifecycle of a Recommendation. This API only supports prioritized recommendations and updates global priority recommendations, eliminating the need to call the API in each AWS Region.

## Request Syntax

```
PUT /v1/recommendations/recommendationIdentifier/lifecycle HTTP/1.1
Content-type: application/json

{
  "lifecycleStage": "string",
  "updateReason": "string",
  "updateReasonCode": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### recommendationIdentifier

The Recommendation identifier for AWS Trusted Advisor Priority recommendations

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation\/[\w-]+$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### lifecycleStage

The new lifecycle stage

Type: String

Valid Values: `pending_response | in_progress | dismissed | resolved`

Required: Yes

### updateReason

Reason for the lifecycle stage change

Type: String

Length Constraints: Minimum length of 10. Maximum length of 4096.

Pattern: `^\s\S]*$`

Required: No

### updateReasonCode

Reason code for the lifecycle state change

Type: String

Valid Values: `non_critical_account | temporary_account | valid_business_case | other_methods_available | low_priority | not_applicable | other`

Required: No

## 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](#).

### **AccessDeniedException**

Exception that access has been denied due to insufficient access

HTTP Status Code: 403

## ConflictException

Exception that the request was denied due to conflicts in state

HTTP Status Code: 409

## InternalServerError

Exception to notify that an unexpected internal error occurred during processing of the request

HTTP Status Code: 500

## ResourceNotFoundException

Exception that the requested resource has not been found

HTTP Status Code: 404

## ThrottlingException

Exception to notify that requests are being throttled

HTTP Status Code: 429

## ValidationException

Exception that the request failed to satisfy service constraints

HTTP Status Code: 400

## Examples

### Update the Lifecycle of a Recommendation

Update the lifecycle stage of a recommendation managed by AWS Trusted Advisor Priority.

#### Sample Request

```
{
  "recommendationIdentifier":
    "arn:aws:trustedadvisor::000000000000:recommendation/861c9c6e-
    f169-405a-8b59-537a8caccd7a",
  "lifecycleStage": "resolved",
  "updateReasonCode": "valid_business_case",
  "updateReason": "Resolved the recommendation"
```

```
}
```

## 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 TrustedAdvisor Public API 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:

- [AccountRecommendationLifecycleSummary](#)
- [CheckSummary](#)
- [OrganizationRecommendation](#)
- [OrganizationRecommendationResourceSummary](#)
- [OrganizationRecommendationSummary](#)
- [Recommendation](#)
- [RecommendationCostOptimizingAggregates](#)
- [RecommendationPillarSpecificAggregates](#)
- [RecommendationResourceExclusion](#)
- [RecommendationResourcesAggregates](#)
- [RecommendationResourceSummary](#)
- [RecommendationSummary](#)
- [UpdateRecommendationResourceExclusionError](#)



# AccountRecommendationLifecycleSummary

Summary of an AccountRecommendationLifecycle for an Organization Recommendation

## Contents

### accountId

The AWS account ID

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d+$`

Required: No

### accountRecommendationArn

The Recommendation ARN

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation\[/[\w-]+$`

Required: No

### lastUpdatedAt

When the Recommendation was last updated

Type: Timestamp

Required: No

### lifecycleStage

The lifecycle stage from AWS Trusted Advisor Priority

Type: String

Valid Values: `in_progress` | `pending_response` | `dismissed` | `resolved`

Required: No

### **updatedOnBehalfOf**

The person on whose behalf a Technical Account Manager (TAM) updated the recommendation. This information is only available when a Technical Account Manager takes an action on a recommendation managed by AWS Trusted Advisor Priority

Type: String

Required: No

### **updatedOnBehalfOfJobTitle**

The job title of the person on whose behalf a Technical Account Manager (TAM) updated the recommendation. This information is only available when a Technical Account Manager takes an action on a recommendation managed by AWS Trusted Advisor Priority

Type: String

Required: No

### **updateReason**

Reason for the lifecycle stage change

Type: String

Length Constraints: Minimum length of 10. Maximum length of 4096.

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

Required: No

### **updateReasonCode**

Reason code for the lifecycle state change

Type: String

Valid Values: `non_critical_account | temporary_account | valid_business_case | other_methods_available | low_priority | not_applicable | other`

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](#)

# CheckSummary

A summary of an AWS Trusted Advisor Check

## Contents

### arn

The ARN of the AWS Trusted Advisor Check

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor:::check\/[\w-]+$`

Required: Yes

### awsServices

The AWS Services that the Check applies to

Type: Array of strings

Length Constraints: Minimum length of 2. Maximum length of 30.

Required: Yes

### description

A description of what the AWS Trusted Advisor Check is monitoring

Type: String

Required: Yes

### id

The unique identifier of the AWS Trusted Advisor Check

Type: String

Required: Yes

### metadata

The column headings for the metadata returned in the resource

Type: String to string map

Required: Yes

### **name**

The name of the AWS Trusted Advisor Check

Type: String

Required: Yes

### **pillars**

The Recommendation pillars that the AWS Trusted Advisor Check falls under

Type: Array of strings

Valid Values: `cost_optimizing` | `performance` | `security` | `service_limits` | `fault_tolerance` | `operational_excellence`

Required: Yes

### **source**

The source of the Recommendation

Type: String

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

Required: Yes

## **See Also**

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

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



# OrganizationRecommendation

A Recommendation for accounts within an Organization

## Contents

### arn

The ARN of the Recommendation

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor:::organization-recommendation\[/[\w-]+\$`

Required: Yes

### description

A description for AWS Trusted Advisor recommendations

Type: String

Required: Yes

### id

The ID which identifies where the Recommendation was produced

Type: String

Required: Yes

### name

The name of the AWS Trusted Advisor Recommendation

Type: String

Required: Yes

### pillars

The Pillars that the Recommendation is optimizing

Type: Array of strings

Valid Values: `cost_optimizing` | `performance` | `security` | `service_limits` | `fault_tolerance` | `operational_excellence`

Required: Yes

### **resourcesAggregates**

An aggregation of all resources

Type: [RecommendationResourcesAggregates](#) object

Required: Yes

### **source**

The source of the Recommendation

Type: String

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

Required: Yes

### **status**

The status of the Recommendation

Type: String

Valid Values: `ok` | `warning` | `error`

Required: Yes

### **type**

Whether the Recommendation was automated or generated by AWS Trusted Advisor Priority

Type: String

Valid Values: `standard` | `priority`

Required: Yes



**awsServices**

The AWS Services that the Recommendation applies to

Type: Array of strings

Length Constraints: Minimum length of 2. Maximum length of 30.

Required: No

**checkArn**

The AWS Trusted Advisor Check ARN that relates to the Recommendation

Type: String

Required: No

**createdAt**

When the Recommendation was created, if created by AWS Trusted Advisor Priority

Type: Timestamp

Required: No

**createdBy**

The creator, if created by AWS Trusted Advisor Priority

Type: String

Required: No

**lastUpdatedAt**

When the Recommendation was last updated

Type: Timestamp

Required: No

**lifecycleStage**

The lifecycle stage from AWS Trusted Advisor Priority

Type: String

Valid Values: `in_progress` | `pending_response` | `dismissed` | `resolved`

Required: No

### **pillarSpecificAggregates**

The pillar aggregations for cost savings

Type: [RecommendationPillarSpecificAggregates](#) object

Required: No

### **resolvedAt**

When the Recommendation was resolved

Type: Timestamp

Required: No

### **updatedOnBehalfOf**

The person on whose behalf a Technical Account Manager (TAM) updated the recommendation. This information is only available when a Technical Account Manager takes an action on a recommendation managed by AWS Trusted Advisor Priority

Type: String

Required: No

### **updatedOnBehalfOfJobTitle**

The job title of the person on whose behalf a Technical Account Manager (TAM) updated the recommendation. This information is only available when a Technical Account Manager takes an action on a recommendation managed by AWS Trusted Advisor Priority

Type: String

Required: No

### **updateReason**

Reason for the lifecycle stage change

Type: String

Length Constraints: Minimum length of 10. Maximum length of 4096.

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

Required: No

### **updateReasonCode**

Reason code for the lifecycle state change

Type: String

Valid Values: `non_critical_account` | `temporary_account` | `valid_business_case` | `other_methods_available` | `low_priority` | `not_applicable` | `other`

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](#)

# OrganizationRecommendationResourceSummary

## Organization Recommendation Resource Summary

### Contents

#### arn

The ARN of the Recommendation Resource

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation-resource\/[\w-]+\/[\w-]+$`

Required: Yes

#### awsResourceId

The AWS resource identifier. There are certain checks that generate recommendation resources without an awsResourceId.

Type: String

Required: Yes

#### id

The ID of the Recommendation Resource

Type: String

Required: Yes

#### lastUpdatedAt

When the Recommendation Resource was last updated

Type: Timestamp

Required: Yes

## **metadata**

Metadata associated with the Recommendation Resource

Type: String to string map

Required: Yes

## **recommendationArn**

The Recommendation ARN

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor:::organization-recommendation\[/[\w-]+\]$`

Required: Yes

## **regionCode**

The AWS Region code that the Recommendation Resource is in

Type: String

Length Constraints: Minimum length of 9. Maximum length of 20.

Required: Yes

## **status**

The current status of the Recommendation Resource

Type: String

Valid Values: `ok` | `warning` | `error`

Required: Yes

## **accountId**

The AWS account ID

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d+$`

Required: No

### **exclusionStatus**

The exclusion status of the Recommendation Resource

Type: String

Valid Values: `excluded` | `included`

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](#)

# OrganizationRecommendationSummary

Summary of recommendation for accounts within an Organization

## Contents

### arn

The ARN of the Recommendation

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor:::organization-recommendation\/[\w-]+$`

Required: Yes

### id

The ID which identifies where the Recommendation was produced

Type: String

Required: Yes

### name

The name of the AWS Trusted Advisor Recommendation

Type: String

Required: Yes

### pillars

The Pillars that the Recommendation is optimizing

Type: Array of strings

Valid Values: `cost_optimizing | performance | security | service_limits | fault_tolerance | operational_excellence`

Required: Yes

## resourcesAggregates

An aggregation of all resources

Type: [RecommendationResourcesAggregates](#) object

Required: Yes

### source

The source of the Recommendation

Type: String

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

Required: Yes

### status

The status of the Recommendation

Type: String

Valid Values: `ok` | `warning` | `error`

Required: Yes

### type

Whether the Recommendation was automated or generated by AWS Trusted Advisor Priority

Type: String

Valid Values: `standard` | `priority`

Required: Yes

### awsServices

The AWS Services that the Recommendation applies to

Type: Array of strings



Length Constraints: Minimum length of 2. Maximum length of 30.

Required: No

### **checkArn**

The AWS Trusted Advisor Check ARN that relates to the Recommendation

Type: String

Required: No

### **createdAt**

When the Recommendation was created, if created by AWS Trusted Advisor Priority

Type: Timestamp

Required: No

### **lastUpdatedAt**

When the Recommendation was last updated

Type: Timestamp

Required: No

### **lifecycleStage**

The lifecycle stage from AWS Trusted Advisor Priority

Type: String

Valid Values: `in_progress` | `pending_response` | `dismissed` | `resolved`

Required: No

### **pillarSpecificAggregates**

The pillar aggregations for cost savings

Type: [RecommendationPillarSpecificAggregates](#) object

Required: No

## See Also

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

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

# Recommendation

A Recommendation for an Account

## Contents

### **arn**

The ARN of the Recommendation

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation\/[\w-]+$`

Required: Yes

### **description**

A description for AWS Trusted Advisor recommendations

Type: String

Required: Yes

### **id**

The ID which identifies where the Recommendation was produced

Type: String

Required: Yes

### **name**

The name of the AWS Trusted Advisor Recommendation

Type: String

Required: Yes

### **pillars**

The Pillars that the Recommendation is optimizing

Type: Array of strings

Valid Values: `cost_optimizing` | `performance` | `security` | `service_limits` | `fault_tolerance` | `operational_excellence`

Required: Yes

### **resourcesAggregates**

An aggregation of all resources

Type: [RecommendationResourcesAggregates](#) object

Required: Yes

### **source**

The source of the Recommendation

Type: String

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

Required: Yes

### **status**

The status of the Recommendation

Type: String

Valid Values: `ok` | `warning` | `error`

Required: Yes

### **type**

Whether the Recommendation was automated or generated by AWS Trusted Advisor Priority

Type: String

Valid Values: `standard` | `priority`

Required: Yes

**awsServices**

The AWS Services that the Recommendation applies to

Type: Array of strings

Length Constraints: Minimum length of 2. Maximum length of 30.

Required: No

**checkArn**

The AWS Trusted Advisor Check ARN that relates to the Recommendation

Type: String

Required: No

**createdAt**

When the Recommendation was created, if created by AWS Trusted Advisor Priority

Type: Timestamp

Required: No

**createdBy**

The creator, if created by AWS Trusted Advisor Priority

Type: String

Required: No

**lastUpdatedAt**

When the Recommendation was last updated

Type: Timestamp

Required: No

**lifecycleStage**

The lifecycle stage from AWS Trusted Advisor Priority

Type: String

Valid Values: `in_progress` | `pending_response` | `dismissed` | `resolved`

Required: No

### **pillarSpecificAggregates**

The pillar aggregations for cost savings

Type: [RecommendationPillarSpecificAggregates](#) object

Required: No

### **resolvedAt**

When the Recommendation was resolved

Type: Timestamp

Required: No

### **updatedOnBehalfOf**

The person on whose behalf a Technical Account Manager (TAM) updated the recommendation. This information is only available when a Technical Account Manager takes an action on a recommendation managed by AWS Trusted Advisor Priority

Type: String

Required: No

### **updatedOnBehalfOfJobTitle**

The job title of the person on whose behalf a Technical Account Manager (TAM) updated the recommendation. This information is only available when a Technical Account Manager takes an action on a recommendation managed by AWS Trusted Advisor Priority

Type: String

Required: No

### **updateReason**

Reason for the lifecycle stage change

Type: String

Length Constraints: Minimum length of 10. Maximum length of 4096.

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

Required: No

## **updateReasonCode**

Reason code for the lifecycle state change

Type: String

Valid Values: `non_critical_account` | `temporary_account` | `valid_business_case` | `other_methods_available` | `low_priority` | `not_applicable` | `other`

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](#)

# RecommendationCostOptimizingAggregates

Cost optimizing aggregates for a Recommendation

## Contents

### **estimatedMonthlySavings**

The estimated monthly savings

Type: Double

Required: Yes

### **estimatedPercentMonthlySavings**

The estimated percently monthly savings

Type: Double

Required: Yes

## See Also

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

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



# RecommendationPillarSpecificAggregates

Recommendation pillar aggregates

## Contents

### costOptimizing

Cost optimizing aggregates

Type: [RecommendationCostOptimizingAggregates](#) object

Required: No

## See Also

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

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

# RecommendationResourceExclusion

The request entry for Recommendation Resource exclusion. Each entry is a combination of Recommendation Resource ARN and corresponding exclusion status

## Contents

### arn

The ARN of the Recommendation Resource

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation-resource\/[\w-]+\/[\w-]+$`

Required: Yes

### isExcluded

The exclusion status

Type: Boolean

Required: Yes

## See Also

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

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

# RecommendationResourcesAggregates

Aggregation of Recommendation Resources

## Contents

### **errorCount**

The number of AWS resources that were flagged to have errors according to the Trusted Advisor check

Type: Long

Required: Yes

### **okCount**

The number of AWS resources that were flagged to be OK according to the Trusted Advisor check

Type: Long

Required: Yes

### **warningCount**

The number of AWS resources that were flagged to have warning according to the Trusted Advisor check

Type: Long

Required: Yes

## See Also

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

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



# RecommendationResourceSummary

Summary of a Recommendation Resource

## Contents

### arn

The ARN of the Recommendation Resource

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation-resource\/[\w-]+\/[\w-]+$`

Required: Yes

### awsResourceId

The AWS resource identifier. There are certain checks that generate recommendation resources without an awsResourceId.

Type: String

Required: Yes

### id

The ID of the Recommendation Resource

Type: String

Required: Yes

### lastUpdatedAt

When the Recommendation Resource was last updated

Type: Timestamp

Required: Yes

## **metadata**

Metadata associated with the Recommendation Resource

Type: String to string map

Required: Yes

## **recommendationArn**

The Recommendation ARN

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation\/[\w-]+$`

Required: Yes

## **regionCode**

The AWS Region code that the Recommendation Resource is in

Type: String

Length Constraints: Minimum length of 9. Maximum length of 20.

Required: Yes

## **status**

The current status of the Recommendation Resource

Type: String

Valid Values: `ok` | `warning` | `error`

Required: Yes

## **exclusionStatus**

The exclusion status of the Recommendation Resource

Type: String

Valid Values: `excluded` | `included`

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](#)

# RecommendationSummary

Summary of Recommendation for an Account

## Contents

### arn

The ARN of the Recommendation

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation\/[\w-]+$`

Required: Yes

### id

The ID which identifies where the Recommendation was produced

Type: String

Required: Yes

### name

The name of the AWS Trusted Advisor Recommendation

Type: String

Required: Yes

### pillars

The Pillars that the Recommendation is optimizing

Type: Array of strings

Valid Values: `cost_optimizing | performance | security | service_limits | fault_tolerance | operational_excellence`

Required: Yes



## resourcesAggregates

An aggregation of all resources

Type: [RecommendationResourcesAggregates](#) object

Required: Yes

### source

The source of the Recommendation

Type: String

Valid Values: `aws_config` | `compute_optimizer` | `cost_explorer` | `lse` | `manual` | `pse` | `rds` | `resilience` | `resilience_hub` | `security_hub` | `stir` | `ta_check` | `well_architected`

Required: Yes

### status

The status of the Recommendation

Type: String

Valid Values: `ok` | `warning` | `error`

Required: Yes

### type

Whether the Recommendation was automated or generated by AWS Trusted Advisor Priority

Type: String

Valid Values: `standard` | `priority`

Required: Yes

### awsServices

The AWS Services that the Recommendation applies to

Type: Array of strings

Length Constraints: Minimum length of 2. Maximum length of 30.

Required: No

### **checkArn**

The AWS Trusted Advisor Check ARN that relates to the Recommendation

Type: String

Required: No

### **createdAt**

When the Recommendation was created, if created by AWS Trusted Advisor Priority

Type: Timestamp

Required: No

### **lastUpdatedAt**

When the Recommendation was last updated

Type: Timestamp

Required: No

### **lifecycleStage**

The lifecycle stage from AWS Trusted Advisor Priority

Type: String

Valid Values: `in_progress` | `pending_response` | `dismissed` | `resolved`

Required: No

### **pillarSpecificAggregates**

The pillar aggregations for cost savings

Type: [RecommendationPillarSpecificAggregates](#) object

Required: No

## See Also

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

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

# UpdateRecommendationResourceExclusionError

The error entry for Recommendation Resource exclusion. Each entry is a combination of Recommendation Resource ARN, error code and error message

## Contents

### arn

The ARN of the Recommendation Resource

Type: String

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

Pattern: `^arn:[\w-]+:trustedadvisor::\d{12}:recommendation-resource\/[\w-]+\/[\w-]+$`

Required: No

### errorCode

The error code

Type: String

Required: No

### errorMessage

The error message

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](#)

# 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