

---

# Migration Hub Strategy Recommendations

**API Reference**

**API Version 2020-02-19**



## **Migration Hub Strategy Recommendations: API Reference**

Copyright © Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

## Table of Contents

Welcome .....	1
Actions .....	2
GetApplicationComponentDetails .....	3
Request Syntax .....	3
URI Request Parameters .....	3
Request Body .....	3
Response Syntax .....	3
Response Elements .....	4
Errors .....	5
See Also .....	5
GetApplicationComponentStrategies .....	6
Request Syntax .....	6
URI Request Parameters .....	6
Request Body .....	6
Response Syntax .....	6
Response Elements .....	6
Errors .....	7
See Also .....	7
GetAssessment .....	8
Request Syntax .....	8
URI Request Parameters .....	8
Request Body .....	8
Response Syntax .....	8
Response Elements .....	8
Errors .....	9
See Also .....	9
GetImportFileTask .....	10
Request Syntax .....	10
URI Request Parameters .....	10
Request Body .....	10
Response Syntax .....	10
Response Elements .....	10
Errors .....	12
See Also .....	12
GetPortfolioPreferences .....	14
Request Syntax .....	14
URI Request Parameters .....	14
Request Body .....	14
Response Syntax .....	14
Response Elements .....	15
Errors .....	15
See Also .....	15
GetPortfolioSummary .....	17
Request Syntax .....	17
URI Request Parameters .....	17
Request Body .....	17
Response Syntax .....	17
Response Elements .....	18
Errors .....	18
See Also .....	18
GetRecommendationReportDetails .....	20
Request Syntax .....	20
URI Request Parameters .....	20
Request Body .....	20

Response Syntax .....	20
Response Elements .....	20
Errors .....	21
See Also .....	21
GetServerDetails .....	23
Request Syntax .....	23
URI Request Parameters .....	23
Request Body .....	23
Response Syntax .....	23
Response Elements .....	24
Errors .....	25
See Also .....	25
GetServerStrategies .....	27
Request Syntax .....	27
URI Request Parameters .....	27
Request Body .....	27
Response Syntax .....	27
Response Elements .....	27
Errors .....	28
See Also .....	28
ListApplicationComponents .....	29
Request Syntax .....	29
URI Request Parameters .....	29
Request Body .....	29
Response Syntax .....	30
Response Elements .....	31
Errors .....	31
See Also .....	32
ListCollectors .....	33
Request Syntax .....	33
URI Request Parameters .....	33
Request Body .....	33
Response Syntax .....	33
Response Elements .....	33
Errors .....	34
See Also .....	34
ListImportFileTask .....	36
Request Syntax .....	36
URI Request Parameters .....	36
Request Body .....	36
Response Syntax .....	36
Response Elements .....	37
Errors .....	37
See Also .....	37
ListServers .....	39
Request Syntax .....	39
URI Request Parameters .....	39
Request Body .....	39
Response Syntax .....	40
Response Elements .....	41
Errors .....	41
See Also .....	42
PutPortfolioPreferences .....	43
Request Syntax .....	43
URI Request Parameters .....	43
Request Body .....	43
Response Syntax .....	44

Response Elements .....	44
Errors .....	44
See Also .....	45
StartAssessment .....	46
Request Syntax .....	46
URI Request Parameters .....	46
Request Body .....	46
Response Syntax .....	46
Response Elements .....	47
Errors .....	47
See Also .....	47
StartImportFileTask .....	49
Request Syntax .....	49
URI Request Parameters .....	49
Request Body .....	49
Response Syntax .....	50
Response Elements .....	50
Errors .....	51
See Also .....	51
StartRecommendationReportGeneration .....	52
Request Syntax .....	52
URI Request Parameters .....	52
Request Body .....	52
Response Syntax .....	52
Response Elements .....	52
Errors .....	53
See Also .....	53
StopAssessment .....	55
Request Syntax .....	55
URI Request Parameters .....	55
Request Body .....	55
Response Syntax .....	55
Response Elements .....	55
Errors .....	55
See Also .....	56
UpdateApplicationComponentConfig .....	57
Request Syntax .....	57
URI Request Parameters .....	57
Request Body .....	57
Response Syntax .....	58
Response Elements .....	58
Errors .....	58
See Also .....	59
UpdateServerConfig .....	60
Request Syntax .....	60
URI Request Parameters .....	60
Request Body .....	60
Response Syntax .....	60
Response Elements .....	60
Errors .....	61
See Also .....	61
Data Types .....	62
AntipatternSeveritySummary .....	64
Contents .....	64
See Also .....	64
ApplicationComponentDetail .....	65
Contents .....	65

See Also .....	67
ApplicationComponentStrategy .....	69
Contents .....	69
See Also .....	69
ApplicationComponentSummary .....	70
Contents .....	70
See Also .....	70
ApplicationPreferences .....	71
Contents .....	71
See Also .....	71
AssessmentSummary .....	72
Contents .....	72
See Also .....	73
AssociatedApplication .....	74
Contents .....	74
See Also .....	74
AwsManagedResources .....	75
Contents .....	75
See Also .....	75
BusinessGoals .....	76
Contents .....	76
See Also .....	76
Collector .....	77
Contents .....	77
See Also .....	78
DatabaseConfigDetail .....	79
Contents .....	79
See Also .....	79
DatabaseMigrationPreference .....	80
Contents .....	80
See Also .....	80
DatabasePreferences .....	81
Contents .....	81
See Also .....	81
DataCollectionDetails .....	82
Contents .....	82
See Also .....	83
Group .....	84
Contents .....	84
See Also .....	84
Heterogeneous .....	85
Contents .....	85
See Also .....	85
Homogeneous .....	86
Contents .....	86
See Also .....	86
ImportFileTaskInformation .....	87
Contents .....	87
See Also .....	88
ManagementPreference .....	90
Contents .....	90
See Also .....	90
NetworkInfo .....	91
Contents .....	91
See Also .....	91
NoDatabaseMigrationPreference .....	93
Contents .....	93

See Also .....	93
NoManagementPreference .....	94
Contents .....	94
See Also .....	94
OSInfo .....	95
Contents .....	95
See Also .....	95
PrioritizeBusinessGoals .....	96
Contents .....	96
See Also .....	96
RecommendationReportDetails .....	97
Contents .....	97
See Also .....	98
RecommendationSet .....	99
Contents .....	99
See Also .....	99
S3Object .....	100
Contents .....	100
See Also .....	100
SelfManageResources .....	101
Contents .....	101
See Also .....	101
ServerDetail .....	102
Contents .....	102
See Also .....	104
ServerStrategy .....	105
Contents .....	105
See Also .....	105
ServerSummary .....	106
Contents .....	106
See Also .....	106
SourceCode .....	107
Contents .....	107
See Also .....	107
SourceCodeRepository .....	108
Contents .....	108
See Also .....	108
StrategyOption .....	109
Contents .....	109
See Also .....	109
StrategySummary .....	111
Contents .....	111
See Also .....	111
SystemInfo .....	112
Contents .....	112
See Also .....	112
TransformationTool .....	113
Contents .....	113
See Also .....	113
Common Parameters .....	114
Common Errors .....	116

# Welcome

This API reference provides descriptions, syntax, and other details about each of the actions and data types for Migration Hub Strategy Recommendations (Strategy Recommendations). The topic for each action shows the API request parameters and the response. Alternatively, you can use one of the AWS SDKs to access an API that is tailored to the programming language or platform that you're using. For more information, see [AWS SDKs](#).

This document was last published on May 24, 2022.



# Actions

The following actions are supported:

- [GetApplicationComponentDetails](#) (p. 3)
- [GetApplicationComponentStrategies](#) (p. 6)
- [GetAssessment](#) (p. 8)
- [GetImportFileTask](#) (p. 10)
- [GetPortfolioPreferences](#) (p. 14)
- [GetPortfolioSummary](#) (p. 17)
- [GetRecommendationReportDetails](#) (p. 20)
- [GetServerDetails](#) (p. 23)
- [GetServerStrategies](#) (p. 27)
- [ListApplicationComponents](#) (p. 29)
- [ListCollectors](#) (p. 33)
- [ListImportFileTask](#) (p. 36)
- [ListServers](#) (p. 39)
- [PutPortfolioPreferences](#) (p. 43)
- [StartAssessment](#) (p. 46)
- [StartImportFileTask](#) (p. 49)
- [StartRecommendationReportGeneration](#) (p. 52)
- [StopAssessment](#) (p. 55)
- [UpdateApplicationComponentConfig](#) (p. 57)
- [UpdateServerConfig](#) (p. 60)

# GetApplicationComponentDetails

Retrieves details about an application component.

## Request Syntax

```
GET /get-applicationcomponent-details/applicationComponentId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### **applicationComponentId** (p. 3)

The ID of the application component. The ID is unique within an AWS account.

Length Constraints: Minimum length of 0. Maximum length of 44.

Pattern: [0-9a-zA-Z-]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "applicationComponentDetail": {
    "analysisStatus": "string",
    "antipatternReportS3Object": {
      "s3Bucket": "string",
      "s3key": "string"
    },
    "antipatternReportStatus": "string",
    "antipatternReportStatusMessage": "string",
    "appType": "string",
    "associatedServerId": "string",
    "databaseConfigDetail": {
      "secretName": "string"
    },
    "id": "string",
    "inclusionStatus": "string",
    "lastAnalyzedTimestamp": number,
    "listAntipatternSeveritySummary": [
      {
        "count": number,
        "severity": "string"
      }
    ],
    "moreServerAssociationExists": boolean,
    "name": "string",
```

```
"osDriver": "string",
"osVersion": "string",
"recommendationSet": {
  "strategy": "string",
  "targetDestination": "string",
  "transformationTool": {
    "description": "string",
    "name": "string",
    "transformationToolInstallationLink": "string"
  }
},
"resourceSubType": "string",
"sourceCodeRepositories": [
  {
    "branch": "string",
    "repository": "string",
    "versionControlType": "string"
  }
],
"statusMessage": "string"
},
"associatedApplications": [
  {
    "id": "string",
    "name": "string"
  }
],
"associatedServerIds": [ "string" ],
"moreApplicationResource": boolean
}
```

## 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.

### **applicationComponentDetail** (p. 3)

Detailed information about an application component.

Type: [ApplicationComponentDetail](#) (p. 65) object

### **associatedApplications** (p. 3)

The associated application group as defined in AWS Application Discovery Service.

Type: Array of [AssociatedApplication](#) (p. 74) objects

### **associatedServerIds** (p. 3)

A list of the IDs of the servers on which the application component is running.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*S.\*

### **moreApplicationResource** (p. 3)

Set to true if the application component belongs to more than one application group.

Type: Boolean

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

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

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

# GetApplicationComponentStrategies

Retrieves a list of all the recommended strategies and tools for an application component running on a server.

## Request Syntax

```
GET /get-applicationcomponent-strategies/applicationComponentId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### **applicationComponentId** (p. 6)

The ID of the application component. The ID is unique within an AWS account.

Length Constraints: Minimum length of 0. Maximum length of 44.

Pattern: [0-9a-zA-Z- ]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "applicationComponentStrategies": [
    {
      "isPreferred": boolean,
      "recommendation": {
        "strategy": "string",
        "targetDestination": "string",
        "transformationTool": {
          "description": "string",
          "name": "string",
          "transformationToolInstallationLink": "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.

#### **[applicationComponentStrategies \(p. 6\)](#)**

A list of application component strategy recommendations.

Type: Array of [ApplicationComponentStrategy \(p. 69\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

#### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

#### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

#### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

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

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

# GetAssessment

Retrieves the status of an on-going assessment.

## Request Syntax

```
GET /get-assessment/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id (p. 8)

The `assessmentid` returned by [StartAssessment \(p. 46\)](#).

Length Constraints: Minimum length of 0. Maximum length of 52.

Pattern: [0-9a-z-: ]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "dataCollectionDetails": {
    "completionTime": number,
    "failed": number,
    "inProgress": number,
    "servers": number,
    "startTime": number,
    "status": "string",
    "success": number
  },
  "id": "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.

### dataCollectionDetails (p. 8)

Detailed information about the assessment.

Type: [DataCollectionDetails](#) (p. 82) object  
**id** (p. 8)

The ID for the specific assessment task.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 52.

Pattern: [ 0-9a-z- : ]+

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 116).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

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

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



# GetImportFileTask

Retrieves the details about a specific import task.

## Request Syntax

```
GET /get-import-file-task/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### **id** (p. 10)

The ID of the import file task. This ID is returned in the response of [StartImportFileTask](#) (p. 49).

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "completionTime": number,
  "id": "string",
  "importName": "string",
  "inputS3Bucket": "string",
  "inputS3Key": "string",
  "numberOfRecordsFailed": number,
  "numberOfRecordsSuccess": number,
  "startTime": number,
  "status": "string",
  "statusReportS3Bucket": "string",
  "statusReportS3Key": "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.

### **completionTime** (p. 10)

The time that the import task completed.

Type: Timestamp

**id (p. 10)**

The import file task id returned in the response of [StartImportFileTask \(p. 49\)](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

**importName (p. 10)**

The name of the import task given in [StartImportFileTask \(p. 49\)](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

**inputS3Bucket (p. 10)**

The S3 bucket where import file is located.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: `[0-9a-z]+[0-9a-z\.\-]*[0-9a-z]+`

**inputS3Key (p. 10)**

The Amazon S3 key name of the import file.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

**numberOfRecordsFailed (p. 10)**

The number of records that failed to be imported.

Type: Integer

**numberOfRecordsSuccess (p. 10)**

The number of records successfully imported.

Type: Integer

**startTime (p. 10)**

Start time of the import task.

Type: Timestamp

**status (p. 10)**

Status of import file task.

Type: String

Valid Values: `ImportInProgress | ImportFailed | ImportPartialSuccess | ImportSuccess | DeleteInProgress | DeleteFailed | DeletePartialSuccess | DeleteSuccess`

### [statusReportS3Bucket \(p. 10\)](#)

The S3 bucket name for status report of import task.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: [0-9a-z]+[0-9a-z\.\-]\*[0-9a-z]+

### [statusReportS3Key \(p. 10\)](#)

The Amazon S3 key name for status report of import task. The report contains details about whether each record imported successfully or why it did not.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerError**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# GetPortfolioPreferences

Retrieves your migration and modernization preferences.

## Request Syntax

```
GET /get-portfolio-preferences HTTP/1.1
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "applicationPreferences": {
    "managementPreference": {
      "awsManagedResources": {
        "targetDestination": [ "string" ]
      },
      "noPreference": {
        "targetDestination": [ "string" ]
      },
      "selfManageResources": {
        "targetDestination": [ "string" ]
      }
    },
    "databasePreferences": {
      "databaseManagementPreference": "string",
      "databaseMigrationPreference": {
        "heterogeneous": {
          "targetDatabaseEngine": [ "string" ]
        },
        "homogeneous": {
          "targetDatabaseEngine": [ "string" ]
        },
        "noPreference": {
          "targetDatabaseEngine": [ "string" ]
        }
      }
    },
    "prioritizeBusinessGoals": {
      "businessGoals": {
        "licenseCostReduction": number,
        "modernizeInfrastructureWithCloudNativeTechnologies": number,
        "reduceOperationalOverheadWithManagedServices": number,
        "speedOfMigration": number
      }
    }
  }
}
```

```
}
```

## Response Elements

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

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

### **applicationPreferences (p. 14)**

The transformation preferences for non-database applications.

Type: [ApplicationPreferences \(p. 71\)](#) object

### **databasePreferences (p. 14)**

The transformation preferences for database applications.

Type: [DatabasePreferences \(p. 81\)](#) object

### **prioritizeBusinessGoals (p. 14)**

The rank of business goals based on priority.

Type: [PrioritizeBusinessGoals \(p. 96\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerError**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

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

- [AWS Command Line Interface](#)

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

# GetPortfolioSummary

Retrieves overall summary including the number of servers to rehost and the overall number of anti-patterns.

## Request Syntax

```
GET /get-portfolio-summary HTTP/1.1
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "assessmentSummary": {
    "antipatternReportS3Object": {
      "s3Bucket": "string",
      "s3key": "string"
    },
    "antipatternReportStatus": "string",
    "antipatternReportStatusMessage": "string",
    "lastAnalyzedTimestamp": number,
    "listAntipatternSeveritySummary": [
      {
        "count": number,
        "severity": "string"
      }
    ],
    "listApplicationComponentStrategySummary": [
      {
        "count": number,
        "strategy": "string"
      }
    ],
    "listApplicationComponentSummary": [
      {
        "appType": "string",
        "count": number
      }
    ],
    "listServerStrategySummary": [
      {
        "count": number,
        "strategy": "string"
      }
    ],
    "listServerSummary": [
      {

```



```
    "count": number,  
    "ServerOsType": "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.

### [assessmentSummary \(p. 17\)](#)

An assessment summary for the portfolio including the number of servers to rehost and the overall number of anti-patterns.

Type: [AssessmentSummary \(p. 72\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

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

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



# GetRecommendationReportDetails

Retrieves detailed information about the specified recommendation report.

## Request Syntax

```
GET /get-recommendation-report-details/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id (p. 20)

The recommendation report generation task *id* returned by [StartRecommendationReportGeneration \(p. 52\)](#).

Length Constraints: Minimum length of 0. Maximum length of 52.

Pattern: [0-9a-z-: ]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "id": "string",
  "recommendationReportDetails": {
    "completionTime": number,
    "s3Bucket": "string",
    "s3Keys": [ "string" ],
    "startTime": number,
    "status": "string",
    "statusMessage": "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.

### id (p. 20)

The ID of the recommendation report generation task. See the response of [StartRecommendationReportGeneration \(p. 52\)](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 52.

Pattern: [ 0-9a-z- : ]+

#### [recommendationReportDetails \(p. 20\)](#)

Detailed information about the recommendation report.

Type: [RecommendationReportDetails \(p. 97\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# GetServerDetails

Retrieves detailed information about a specified server.

## Request Syntax

```
GET /get-server-details/serverId?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults (p. 23)

The maximum number of items to include in the response. The maximum value is 100.

### nextToken (p. 23)

The token from a previous call that you use to retrieve the next set of results. For example, if a previous call to this action returned 100 items, but you set `maxResults` to 10. You'll receive a set of 10 results along with a token. You then use the returned token to retrieve the next set of 10.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

### serverId (p. 23)

The ID of the server.

Length Constraints: Minimum length of 1. Maximum length of 27.

Pattern: `.*\S.*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "associatedApplications": [
    {
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string",
  "serverDetail": {
    "antipatternReportS3Object": {
```

```

        "s3Bucket": "string",
        "s3key": "string"
    },
    "antipatternReportStatus": "string",
    "antipatternReportStatusMessage": "string",
    "applicationComponentStrategySummary": [
        {
            "count": number,
            "strategy": "string"
        }
    ],
    "dataCollectionStatus": "string",
    "id": "string",
    "lastAnalyzedTimestamp": number,
    "listAntipatternSeveritySummary": [
        {
            "count": number,
            "severity": "string"
        }
    ],
    "name": "string",
    "recommendationSet": {
        "strategy": "string",
        "targetDestination": "string",
        "transformationTool": {
            "description": "string",
            "name": "string",
            "tranformationToolInstallationLink": "string"
        }
    },
    "serverType": "string",
    "statusMessage": "string",
    "systemInfo": {
        "cpuArchitecture": "string",
        "fileSystemType": "string",
        "networkInfoList": [
            {
                "interfaceName": "string",
                "ipAddress": "string",
                "macAddress": "string",
                "netMask": "string"
            }
        ],
        "osInfo": {
            "type": "string",
            "version": "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.

### **associatedApplications** (p. 23)

The associated application group the server belongs to, as defined in AWS Application Discovery Service.

Type: Array of [AssociatedApplication](#) (p. 74) objects

### [nextToken \(p. 23\)](#)

The token you use to retrieve the next set of results, or null if there are no more results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\\S.\*

### [serverDetail \(p. 23\)](#)

Detailed information about the server.

Type: [ServerDetail \(p. 102\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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



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

# GetServerStrategies

Retrieves recommended strategies and tools for the specified server.

## Request Syntax

```
GET /get-server-strategies/serverId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### serverId (p. 27)

The ID of the server.

Length Constraints: Minimum length of 1. Maximum length of 27.

Pattern: .\*\S.\*

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "serverStrategies": [
    {
      "isPreferred": boolean,
      "numberOfApplicationComponents": number,
      "recommendation": {
        "strategy": "string",
        "targetDestination": "string",
        "transformationTool": {
          "description": "string",
          "name": "string",
          "transformationToolInstallationLink": "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.

### [serverStrategies \(p. 27\)](#)

A list of strategy recommendations for the server.

Type: Array of [ServerStrategy \(p. 105\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerError**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# ListApplicationComponents

Retrieves a list of all the application components (processes).

## Request Syntax

```
POST /list-applicationcomponents HTTP/1.1
Content-type: application/json

{
  "applicationComponentCriteria": "string",
  "filterValue": "string",
  "groupIdFilter": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "sort": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **applicationComponentCriteria** (p. 29)

Criteria for filtering the list of application components.

Type: String

Valid Values: NOT\_DEFINED | APP\_NAME | SERVER\_ID | APP\_TYPE | STRATEGY | DESTINATION

Required: No

### **filterValue** (p. 29)

Specify the value based on the application component criteria type. For example, if applicationComponentCriteria is set to SERVER\_ID and filterValue is set to server1, then [ListApplicationComponents](#) (p. 29) returns all the application components running on server1.

Type: String

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

Pattern: .\*\\S.\*

Required: No

### **groupIdFilter** (p. 29)

The group ID specified in to filter on.

Type: Array of [Group \(p. 84\)](#) objects

Required: No

#### [maxResults \(p. 29\)](#)

The maximum number of items to include in the response. The maximum value is 100.

Type: Integer

Required: No

#### [nextToken \(p. 29\)](#)

The token from a previous call that you use to retrieve the next set of results. For example, if a previous call to this action returned 100 items, but you set `maxResults` to 10. You'll receive a set of 10 results along with a token. You then use the returned token to retrieve the next set of 10.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

Required: No

#### [sort \(p. 29\)](#)

Specifies whether to sort by ascending (ASC) or descending (DESC) order.

Type: String

Valid Values: ASC | DESC

Required: No

## Response Syntax

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

{
  "applicationComponentInfos": [
    {
      "analysisStatus": "string",
      "antipatternReportS3Object": {
        "s3Bucket": "string",
        "s3key": "string"
      },
      "antipatternReportStatus": "string",
      "antipatternReportStatusMessage": "string",
      "appType": "string",
      "associatedServerId": "string",
      "databaseConfigDetail": {
        "secretName": "string"
      },
      "id": "string",
      "inclusionStatus": "string",
      "lastAnalyzedTimestamp": number,
      "listAntipatternSeveritySummary": [
        {
          "count": number,
          "severity": "string"
        }
      ]
    }
  ]
}
```

```
    }
  ],
  "moreServerAssociationExists": boolean,
  "name": "string",
  "osDriver": "string",
  "osVersion": "string",
  "recommendationSet": {
    "strategy": "string",
    "targetDestination": "string",
    "transformationTool": {
      "description": "string",
      "name": "string",
      "transformationToolInstallationLink": "string"
    }
  },
  "resourceSubType": "string",
  "sourceCodeRepositories": [
    {
      "branch": "string",
      "repository": "string",
      "versionControlType": "string"
    }
  ],
  "statusMessage": "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.

### **applicationComponentInfos (p. 30)**

The list of application components with detailed information about each component.

Type: Array of [ApplicationComponentDetail \(p. 65\)](#) objects

### **nextToken (p. 30)**

The token you use to retrieve the next set of results, or null if there are no more results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ServiceLinkedRoleLockClientException**

Exception to indicate that the service-linked role (SLR) is locked.

HTTP Status Code: 400

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# ListCollectors

Retrieves a list of all the installed collectors.

## Request Syntax

```
GET /list-collectors?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults (p. 33)

The maximum number of items to include in the response. The maximum value is 100.

### nextToken (p. 33)

The token from a previous call that you use to retrieve the next set of results. For example, if a previous call to this action returned 100 items, but you set `maxResults` to 10. You'll receive a set of 10 results along with a token. You then use the returned token to retrieve the next set of 10.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Collectors": [
    {
      "collectorHealth": "string",
      "collectorId": "string",
      "collectorVersion": "string",
      "hostName": "string",
      "ipAddress": "string",
      "lastActivityTimeStamp": "string",
      "registeredTimeStamp": "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.



### Collectors (p. 33)

The list of all the installed collectors.

Type: Array of [Collector \(p. 77\)](#) objects

### nextToken (p. 33)

The token you use to retrieve the next set of results, or null if there are no more results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### AccessDeniedException

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### InternalServerErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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



# ListImportFileTask

Retrieves a list of all the imports performed.

## Request Syntax

```
GET /list-import-file-task?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### **maxResults** (p. 36)

The total number of items to return. The maximum value is 100.

### **nextToken** (p. 36)

The token from a previous call that you use to retrieve the next set of results. For example, if a previous call to this action returned 100 items, but you set `maxResults` to 10. You'll receive a set of 10 results along with a token. You then use the returned token to retrieve the next set of 10.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "taskInfos": [
    {
      "completionTime": number,
      "id": "string",
      "importName": "string",
      "inputS3Bucket": "string",
      "inputS3Key": "string",
      "numberOfRecordsFailed": number,
      "numberOfRecordsSuccess": number,
      "startTime": number,
      "status": "string",
      "statusReportS3Bucket": "string",
      "statusReportS3Key": "string"
    }
  ]
}
```

## Response Elements

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

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

### **nextToken** (p. 36)

The token you use to retrieve the next set of results, or null if there are no more results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\\S.\*

### **taskInfos** (p. 36)

Lists information about the files you import.

Type: Array of [ImportFileTaskInformation](#) (p. 87) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 116).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

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

# ListServers

Returns a list of all the servers.

## Request Syntax

```
POST /list-servers HTTP/1.1
Content-type: application/json

{
  "filterValue": "string",
  "groupIdFilter": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "serverCriteria": "string",
  "sort": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **filterValue (p. 39)**

Specifies the filter value, which is based on the type of server criteria. For example, if `serverCriteria` is `OS_NAME`, and the `filterValue` is equal to `WindowsServer`, then `ListServers` returns all of the servers matching the OS name `WindowsServer`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

### **groupIdFilter (p. 39)**

Specifies the group ID to filter on.

Type: Array of [Group \(p. 84\)](#) objects

Required: No

### **maxResults (p. 39)**

The maximum number of items to include in the response. The maximum value is 100.

Type: Integer

Required: No

#### **nextToken** (p. 39)

The token from a previous call that you use to retrieve the next set of results. For example, if a previous call to this action returned 100 items, but you set `maxResults` to 10. You'll receive a set of 10 results along with a token. You then use the returned token to retrieve the next set of 10.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

Required: No

#### **serverCriteria** (p. 39)

Criteria for filtering servers.

Type: String

Valid Values: `NOT_DEFINED` | `OS_NAME` | `STRATEGY` | `DESTINATION` | `SERVER_ID`

Required: No

#### **sort** (p. 39)

Specifies whether to sort by ascending (`ASC`) or descending (`DESC`) order.

Type: String

Valid Values: `ASC` | `DESC`

Required: No

## Response Syntax

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

{
  "nextToken": "string",
  "serverInfos": [
    {
      "antipatternReportS3Object": {
        "s3Bucket": "string",
        "s3key": "string"
      },
      "antipatternReportStatus": "string",
      "antipatternReportStatusMessage": "string",
      "applicationComponentStrategySummary": [
        {
          "count": number,
          "strategy": "string"
        }
      ],
      "dataCollectionStatus": "string",
      "id": "string",
      "lastAnalyzedTimestamp": number,
      "listAntipatternSeveritySummary": [
        {
```

```
        "count": number,
        "severity": "string"
    }
],
"name": "string",
"recommendationSet": {
    "strategy": "string",
    "targetDestination": "string",
    "transformationTool": {
        "description": "string",
        "name": "string",
        "transformationToolInstallationLink": "string"
    }
},
"serverType": "string",
"statusMessage": "string",
"systemInfo": {
    "cpuArchitecture": "string",
    "fileSystemType": "string",
    "networkInfoList": [
        {
            "interfaceName": "string",
            "ipAddress": "string",
            "macAddress": "string",
            "netMask": "string"
        }
    ],
    "osInfo": {
        "type": "string",
        "version": "string"
    }
}
}
]
```

## Response Elements

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

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

### [nextToken \(p. 40\)](#)

The token you use to retrieve the next set of results, or null if there are no more results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .\*S.\*

### [serverInfos \(p. 40\)](#)

The list of servers with detailed information about each server.

Type: Array of [ServerDetail \(p. 102\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).



### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# PutPortfolioPreferences

Saves the specified migration and modernization preferences.

## Request Syntax

```
POST /put-portfolio-preferences HTTP/1.1
Content-type: application/json

{
  "applicationPreferences": {
    "managementPreference": {
      "awsManagedResources": {
        "targetDestination": [ "string" ]
      },
      "noPreference": {
        "targetDestination": [ "string" ]
      },
      "selfManageResources": {
        "targetDestination": [ "string" ]
      }
    },
    "databasePreferences": {
      "databaseManagementPreference": "string",
      "databaseMigrationPreference": {
        "heterogeneous": {
          "targetDatabaseEngine": [ "string" ]
        },
        "homogeneous": {
          "targetDatabaseEngine": [ "string" ]
        },
        "noPreference": {
          "targetDatabaseEngine": [ "string" ]
        }
      }
    },
    "prioritizeBusinessGoals": {
      "businessGoals": {
        "licenseCostReduction": number,
        "modernizeInfrastructureWithCloudNativeTechnologies": number,
        "reduceOperationalOverheadWithManagedServices": number,
        "speedOfMigration": number
      }
    }
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **applicationPreferences** (p. 43)

The transformation preferences for non-database applications.

Type: [ApplicationPreferences](#) (p. 71) object

Required: No

#### **databasePreferences** (p. 43)

The transformation preferences for database applications.

Type: [DatabasePreferences](#) (p. 81) object

Required: No

#### **prioritizeBusinessGoals** (p. 43)

The rank of the business goals based on priority.

Type: [PrioritizeBusinessGoals](#) (p. 96) object

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](#) (p. 116).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **ConflictException**

Exception to indicate that there is an ongoing task when a new task is created. Return when once the existing tasks are complete.

HTTP Status Code: 409

### **InternalServerError**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# StartAssessment

Starts the assessment of an on-premises environment.

## Request Syntax

```
POST /start-assessment HTTP/1.1
Content-type: application/json

{
  "s3bucketForAnalysisData": "string",
  "s3bucketForReportData": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [s3bucketForAnalysisData \(p. 46\)](#)

The S3 bucket used by the collectors to send analysis data to the service. The bucket name must begin with `migrationhub-strategy-`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: `[0-9a-z]+[0-9a-z\.\-]*[0-9a-z]+`

Required: No

### [s3bucketForReportData \(p. 46\)](#)

The S3 bucket where all the reports generated by the service are stored. The bucket name must begin with `migrationhub-strategy-`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: `[0-9a-z]+[0-9a-z\.\-]*[0-9a-z]+`

Required: No

## Response Syntax

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

{
  "assessmentId": "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.

### **assessmentId (p. 46)**

The ID of the assessment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 52.

Pattern: [ 0-9a-z- : ]+

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

The AWS account has reached its quota of imports. Contact AWS Support to increase the quota for this account.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

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

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

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

# StartImportFileTask

Starts a file import.

## Request Syntax

```
POST /start-import-file-task HTTP/1.1
Content-type: application/json

{
  "dataSourceType": "string",
  "groupId": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "name": "string",
  "S3Bucket": "string",
  "s3bucketForReportData": "string",
  "s3key": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **dataSourceType** (p. 49)

Specifies the source that the servers are coming from. By default, Strategy Recommendations assumes that the servers specified in the import file are available in AWS Application Discovery Service.

Type: String

Valid Values: `ApplicationDiscoveryService` | `MPA`

Required: No

### **groupId** (p. 49)

Groups the resources in the import file together with a unique name. This ID can be as filter in `ListApplicationComponents` and `ListServers`.

Type: Array of [Group](#) (p. 84) objects

Required: No

### **name** (p. 49)

A descriptive name for the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.



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

Required: Yes

#### [S3Bucket \(p. 49\)](#)

The S3 bucket where the import file is located. The bucket name is required to begin with migrationhub-strategy-.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: [0-9a-z]+[0-9a-z\.\-]\*[0-9a-z]+

Required: Yes

#### [s3bucketForReportData \(p. 49\)](#)

The S3 bucket where Strategy Recommendations uploads import results. The bucket name is required to begin with migrationhub-strategy-.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: [0-9a-z]+[0-9a-z\.\-]\*[0-9a-z]+

Required: No

#### [s3key \(p. 49\)](#)

The Amazon S3 key name of the import file.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

Required: Yes

## Response Syntax

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

{
  "id": "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.

#### [id \(p. 50\)](#)

The ID for a specific import task. The ID is unique within an AWS account.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\\S.\*

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

The AWS account has reached its quota of imports. Contact AWS Support to increase the quota for this account.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# StartRecommendationReportGeneration

Starts generating a recommendation report.

## Request Syntax

```
POST /start-recommendation-report-generation HTTP/1.1
Content-type: application/json

{
  "groupIdFilter": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "outputFormat": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **groupIdFilter** (p. 52)

Groups the resources in the recommendation report with a unique name.

Type: Array of [Group](#) (p. 84) objects

Required: No

### **outputFormat** (p. 52)

The output format for the recommendation report file. The default format is Microsoft Excel.

Type: String

Valid Values: Excel | Json

Required: No

## Response Syntax

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

{
  "id": "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.

**id (p. 52)**

The ID of the recommendation report generation task.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 52.

Pattern: [0-9a-z-: ]+

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 116\)](#).

### **AccessDeniedException**

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **ConflictException**

Exception to indicate that there is an ongoing task when a new task is created. Return when once the existing tasks are complete.

HTTP Status Code: 409

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

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

# StopAssessment

Stops the assessment of an on-premises environment.

## Request Syntax

```
POST /stop-assessment HTTP/1.1
Content-type: application/json

{
  "assessmentId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentId (p. 55)

The `assessmentId` returned by [StartAssessment \(p. 46\)](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 52.

Pattern: [0-9a-z-: ]+

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 \(p. 116\)](#).

### AccessDeniedException

The AWS user account does not have permission to perform the action. Check the AWS Identity and Access Management (IAM) policy associated with this account.

HTTP Status Code: 403

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# UpdateApplicationComponentConfig

Updates the configuration of an application component.

## Request Syntax

```
POST /update-applicationcomponent-config/ HTTP/1.1
Content-type: application/json

{
  "applicationComponentId": "string",
  "inclusionStatus": "string",
  "secretsManagerKey": "string",
  "sourceCodeList": [
    {
      "location": "string",
      "sourceVersion": "string",
      "versionControl": "string"
    }
  ],
  "strategyOption": {
    "isPreferred": boolean,
    "strategy": "string",
    "targetDestination": "string",
    "toolName": "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **applicationComponentId** (p. 57)

The ID of the application component. The ID is unique within an AWS account.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 44.

Pattern: [0-9a-zA-Z-]+

Required: Yes

### **inclusionStatus** (p. 57)

Indicates whether the application component has been included for server recommendation or not.

Type: String

Valid Values: `excludeFromAssessment` | `includeInAssessment`

Required: No



### [secretsManagerKey \(p. 57\)](#)

Database credentials.

Type: String

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

Pattern: .\*

Required: No

### [sourceCodeList \(p. 57\)](#)

The list of source code configurations to update for the application component.

Type: Array of [SourceCode \(p. 107\)](#) objects

Required: No

### [strategyOption \(p. 57\)](#)

The preferred strategy options for the application component. Use values from the [GetApplicationComponentStrategies \(p. 6\)](#) response.

Type: [StrategyOption \(p. 109\)](#) object

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 \(p. 116\)](#).

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# UpdateServerConfig

Updates the configuration of the specified server.

## Request Syntax

```
POST /update-server-config/ HTTP/1.1
Content-type: application/json

{
  "serverId": "string",
  "strategyOption": {
    "isPreferred": boolean,
    "strategy": "string",
    "targetDestination": "string",
    "toolName": "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **serverId** (p. 60)

The ID of the server.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 27.

Pattern: .\*\S.\*

Required: Yes

### **strategyOption** (p. 60)

The preferred strategy options for the application component. See the response from [GetServerStrategies](#) (p. 27).

Type: [StrategyOption](#) (p. 109) object

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 \(p. 116\)](#).

### **InternalServerErrorException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified ID in the request is not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request body isn't valid.

HTTP Status Code: 400

## See Also

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

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

# Data Types

The Migration Hub Strategy Recommendations 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:

- [AntipatternSeveritySummary](#) (p. 64)
- [ApplicationComponentDetail](#) (p. 65)
- [ApplicationComponentStrategy](#) (p. 69)
- [ApplicationComponentSummary](#) (p. 70)
- [ApplicationPreferences](#) (p. 71)
- [AssessmentSummary](#) (p. 72)
- [AssociatedApplication](#) (p. 74)
- [AwsManagedResources](#) (p. 75)
- [BusinessGoals](#) (p. 76)
- [Collector](#) (p. 77)
- [DatabaseConfigDetail](#) (p. 79)
- [DatabaseMigrationPreference](#) (p. 80)
- [DatabasePreferences](#) (p. 81)
- [DataCollectionDetails](#) (p. 82)
- [Group](#) (p. 84)
- [Heterogeneous](#) (p. 85)
- [Homogeneous](#) (p. 86)
- [ImportFileTaskInformation](#) (p. 87)
- [ManagementPreference](#) (p. 90)
- [NetworkInfo](#) (p. 91)
- [NoDatabaseMigrationPreference](#) (p. 93)
- [NoManagementPreference](#) (p. 94)
- [OSInfo](#) (p. 95)
- [PrioritizeBusinessGoals](#) (p. 96)
- [RecommendationReportDetails](#) (p. 97)
- [RecommendationSet](#) (p. 99)
- [S3Object](#) (p. 100)
- [SelfManageResources](#) (p. 101)
- [ServerDetail](#) (p. 102)
- [ServerStrategy](#) (p. 105)
- [ServerSummary](#) (p. 106)
- [SourceCode](#) (p. 107)
- [SourceCodeRepository](#) (p. 108)
- [StrategyOption](#) (p. 109)
- [StrategySummary](#) (p. 111)

- [SystemInfo](#) (p. 112)
- [TransformationTool](#) (p. 113)

# AntipatternSeveritySummary

Contains the summary of anti-patterns and their severity.

## Contents

### **count**

Contains the count of anti-patterns.

Type: Integer

Required: No

### **severity**

Contains the severity of anti-patterns.

Type: String

Valid Values: HIGH | MEDIUM | LOW

Required: No

## See Also

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

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

# ApplicationComponentDetail

Contains detailed information about an application component.

## Contents

### **analysisStatus**

The status of analysis, if the application component has source code or an associated database.

Type: String

Valid Values: `ANALYSIS_TO_BE_SCHEDULED` | `ANALYSIS_STARTED` | `ANALYSIS_SUCCESS` | `ANALYSIS_FAILED`

Required: No

### **antipatternReportS3Object**

The S3 bucket name and the Amazon S3 key name for the anti-pattern report.

Type: [S3Object \(p. 100\)](#) object

Required: No

### **antipatternReportStatus**

The status of the anti-pattern report generation.

Type: String

Valid Values: `FAILED` | `IN_PROGRESS` | `SUCCESS`

Required: No

### **antipatternReportStatusMessage**

The status message for the anti-pattern.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

### **appType**

The type of application component.

Type: String

Valid Values: `DotNetFramework` | `Java` | `SQLServer` | `IIS` | `Oracle` | `Other`

Required: No

### **associatedServerId**

The ID of the server that the application component is running on.

Type: String



Length Constraints: Minimum length of 1. Maximum length of 27.

Pattern: `.*\S.*`

Required: No

### **databaseConfigDetail**

Configuration details for the database associated with the application component.

Type: [DatabaseConfigDetail \(p. 79\)](#) object

Required: No

### **id**

The ID of the application component.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 44.

Pattern: `^[0-9a-b]+`

Required: No

### **inclusionStatus**

Indicates whether the application component has been included for server recommendation or not.

Type: String

Valid Values: `excludeFromAssessment` | `includeInAssessment`

Required: No

### **lastAnalyzedTimestamp**

The timestamp of when the application component was assessed.

Type: Timestamp

Required: No

### **listAntipatternSeveritySummary**

A list of anti-pattern severity summaries.

Type: Array of [AntipatternSeveritySummary \(p. 64\)](#) objects

Required: No

### **moreServerAssociationExists**

Set to true if the application component is running on multiple servers.

Type: Boolean

Required: No

### **name**

The name of application component.

Type: String

Required: No

**osDriver**

OS driver.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

**osVersion**

OS version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

**recommendationSet**

The top recommendation set for the application component.

Type: [RecommendationSet \(p. 99\)](#) object

Required: No

**resourceSubType**

The application component subtype.

Type: String

Valid Values: `Database` | `Process` | `DatabaseProcess`

Required: No

**sourceCodeRepositories**

Details about the source code repository associated with the application component.

Type: Array of [SourceCodeRepository \(p. 108\)](#) objects

Required: No

**statusMessage**

A detailed description of the analysis status and any failure message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

## See Also

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

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

# ApplicationComponentStrategy

Contains information about a strategy recommendation for an application component.

## Contents

### **isPreferred**

Set to true if the recommendation is set as preferred.

Type: Boolean

Required: No

### **recommendation**

Strategy recommendation for the application component.

Type: [RecommendationSet \(p. 99\)](#) object

Required: No

### **status**

The recommendation status of a strategy for an application component.

Type: String

Valid Values: `recommended` | `viableOption` | `notRecommended`

Required: No

## See Also

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

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

# ApplicationComponentSummary

Contains the summary of application components.

## Contents

### **appType**

Contains the name of application types.

Type: String

Valid Values: `DotNetFramework` | `Java` | `SQLServer` | `IIS` | `Oracle` | `Other`

Required: No

### **count**

Contains the count of application type.

Type: Integer

Required: No

## See Also

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

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

# ApplicationPreferences

Application preferences that you specify.

## Contents

### **managementPreference**

Application preferences that you specify to prefer managed environment.

Type: [ManagementPreference \(p. 90\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AssessmentSummary

Contains the summary of the assessment results.

## Contents

### **antipatternReportS3Object**

The Amazon S3 object containing the anti-pattern report.

Type: [S3Object \(p. 100\)](#) object

Required: No

### **antipatternReportStatus**

The status of the anti-pattern report.

Type: String

Valid Values: `FAILED` | `IN_PROGRESS` | `SUCCESS`

Required: No

### **antipatternReportStatusMessage**

The status message of the anti-pattern report.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

### **lastAnalyzedTimestamp**

The time the assessment was performed.

Type: Timestamp

Required: No

### **listAntipatternSeveritySummary**

List of AntipatternSeveritySummary.

Type: Array of [AntipatternSeveritySummary \(p. 64\)](#) objects

Required: No

### **listApplicationComponentStrategySummary**

List of ApplicationComponentStrategySummary.

Type: Array of [StrategySummary \(p. 111\)](#) objects

Required: No

### **listApplicationComponentSummary**

List of ApplicationComponentSummary.

Type: Array of [ApplicationComponentSummary \(p. 70\)](#) objects

Required: No

**listServerStrategySummary**

List of ServerStrategySummary.

Type: Array of [StrategySummary \(p. 111\)](#) objects

Required: No

**listServerSummary**

List of ServerSummary.

Type: Array of [ServerSummary \(p. 106\)](#) objects

Required: No

## See Also

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

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



# AssociatedApplication

Object containing details about applications as defined in Application Discovery Service.

## Contents

### **id**

ID of the application as defined in Application Discovery Service.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

### **name**

Name of the application as defined in Application Discovery Service.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

## See Also

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

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

# AwsManagedResources

Object containing the choice of application destination that you specify.

## Contents

### **targetDestination**

The choice of application destination that you specify.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `None specified` | `AWS Elastic BeanStalk` | `AWS Fargate`

Required: Yes

## See Also

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

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

# BusinessGoals

Business goals that you specify.

## Contents

### **licenseCostReduction**

Business goal to reduce license costs.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

### **modernizeInfrastructureWithCloudNativeTechnologies**

Business goal to modernize infrastructure by moving to cloud native technologies.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

### **reduceOperationalOverheadWithManagedServices**

Business goal to reduce the operational overhead on the team by moving into managed services.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

### **speedOfMigration**

Business goal to achieve migration at a fast pace.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

## See Also

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

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

# Collector

Process data collector that runs in the environment that you specify.

## Contents

### **collectorHealth**

Indicates the health of a collector.

Type: String

Valid Values: COLLECTOR\_HEALTHY | COLLECTOR\_UNHEALTHY

Required: No

### **collectorId**

The ID of the collector.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

Required: No

### **collectorVersion**

Current version of the collector that is running in the environment that you specify.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

Required: No

### **hostName**

Hostname of the server that is hosting the collector.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

Required: No

### **ipAddress**

IP address of the server that is hosting the collector.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

Required: No

### **lastActivityTimeStamp**

Time when the collector last pinged the service.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\\S.\*

Required: No

### **registeredTimeStamp**

Time when the collector registered with the service.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\\S.\*

Required: No

## See Also

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

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

# DatabaseConfigDetail

Configuration information used for assessing databases.

## Contents

### **secretName**

AWS Secrets Manager key that holds the credentials that you use to connect to a database.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

## See Also

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

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

# DatabaseMigrationPreference

Preferences for migrating a database to AWS.

## Contents

### heterogeneous

Indicates whether you are interested in moving from one type of database to another. For example, from SQL Server to Amazon Aurora MySQL-Compatible Edition.

Type: [Heterogeneous \(p. 85\)](#) object

Required: No

### homogeneous

Indicates whether you are interested in moving to the same type of database into AWS. For example, from SQL Server in your environment to SQL Server on AWS.

Type: [Homogeneous \(p. 86\)](#) object

Required: No

### noPreference

Indicated that you do not prefer heterogeneous or homogeneous.

Type: [NoDatabaseMigrationPreference \(p. 93\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DatabasePreferences

Preferences on managing your databases on AWS.

## Contents

### **databaseManagementPreference**

Specifies whether you're interested in self-managed databases or databases managed by AWS.

Type: String

Valid Values: `AWS-managed` | `Self-manage` | `No preference`

Required: No

### **databaseMigrationPreference**

Specifies your preferred migration path.

Type: [DatabaseMigrationPreference \(p. 80\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# DataCollectionDetails

Detailed information about an assessment.

## Contents

### **completionTime**

The time the assessment completes.

Type: Timestamp

Required: No

### **failed**

The number of failed servers in the assessment.

Type: Integer

Required: No

### **inProgress**

The number of servers with the assessment status `IN_PROGRESS`.

Type: Integer

Required: No

### **servers**

The total number of servers in the assessment.

Type: Integer

Required: No

### **startTime**

The start time of assessment.

Type: Timestamp

Required: No

### **status**

The status of the assessment.

Type: String

Valid Values: `IN_PROGRESS` | `COMPLETE` | `FAILED` | `STOPPED`

Required: No

### **success**

The number of successful servers in the assessment.

Type: Integer

Required: No

## See Also

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

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

## Group

The object containing information about distinct imports or groups for Strategy Recommendations.

### Contents

#### **name**

The key of the specific import group.

Type: String

Valid Values: `ExternalId`

Required: No

#### **value**

The value of the specific import group.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

### See Also

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

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

# Heterogeneous

The object containing details about heterogeneous database preferences.

## Contents

### **targetDatabaseEngine**

The target database engine for heterogeneous database migration preference.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: None specified | Amazon Aurora | AWS PostgreSQL | MySQL | Microsoft SQL Server | Oracle Database | MariaDB | SAP | Db2 LUW | MongoDB

Required: Yes

## See Also

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

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

# Homogeneous

The object containing details about homogeneous database preferences.

## Contents

### **targetDatabaseEngine**

The target database engine for homogeneous database migration preferences.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Valid Values: None specified

Required: No

## See Also

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

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

# ImportFileTaskInformation

Information about the import file tasks you request.

## Contents

### **completionTime**

The time that the import task completes.

Type: Timestamp

Required: No

### **id**

The ID of the import file task.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

### **importName**

The name of the import task given in `StartImportFileTask`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

### **inputS3Bucket**

The S3 bucket where the import file is located.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: [0-9a-z]+[0-9a-z\.\-]\*[0-9a-z]+

Required: No

### **inputS3Key**

The Amazon S3 key name of the import file.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

#### **numberOfRecordsFailed**

The number of records that failed to be imported.

Type: Integer

Required: No

#### **numberOfRecordsSuccess**

The number of records successfully imported.

Type: Integer

Required: No

#### **startTime**

Start time of the import task.

Type: Timestamp

Required: No

#### **status**

Status of import file task.

Type: String

Valid Values: `ImportInProgress` | `ImportFailed` | `ImportPartialSuccess` | `ImportSuccess` | `DeleteInProgress` | `DeleteFailed` | `DeletePartialSuccess` | `DeleteSuccess`

Required: No

#### **statusReportS3Bucket**

The S3 bucket name for status report of import task.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: `[0-9a-z]+[0-9a-z\.\-]*[0-9a-z]+`

Required: No

#### **statusReportS3Key**

The Amazon S3 key name for status report of import task. The report contains details about whether each record imported successfully or why it did not.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

## See Also

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

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



# ManagementPreference

Preferences for migrating an application to AWS.

## Contents

### **awsManagedResources**

Indicates interest in solutions that are managed by AWS.

Type: [AwsManagedResources \(p. 75\)](#) object

Required: No

### **noPreference**

No specific preference.

Type: [NoManagementPreference \(p. 94\)](#) object

Required: No

### **selfManageResources**

Indicates interest in managing your own resources on AWS.

Type: [SelfManageResources \(p. 101\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# NetworkInfo

Information about the server's network for which the assessment was run.

## Contents

### **interfaceName**

Information about the name of the interface of the server for which the assessment was run.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*

Required: Yes

### **ipAddress**

Information about the IP address of the server for which the assessment was run.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 15.

Pattern: ^((([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))\$

Required: Yes

### **macAddress**

Information about the MAC address of the server for which the assessment was run.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17.

Pattern: ^([0-9A-Fa-f]{2}[:-]){5}([0-9A-Fa-f]{2})|([0-9a-fA-F]{4}\.){3}\.([0-9a-fA-F]{4})\.\.([0-9a-fA-F]{4})\$"

Required: Yes

### **netMask**

Information about the subnet mask of the server for which the assessment was run.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*

Required: Yes

## See Also

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

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

# NoDatabaseMigrationPreference

The object containing details about database migration preferences, when you have no particular preference.

## Contents

### **targetDatabaseEngine**

The target database engine for database migration preference that you specify.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: None specified | Amazon Aurora | AWS PostgreSQL | MySQL | Microsoft SQL Server | Oracle Database | MariaDB | SAP | Db2 LUW | MongoDB

Required: Yes

## See Also

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

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

# NoManagementPreference

Object containing the choice of application destination that you specify.

## Contents

### **targetDestination**

The choice of application destination that you specify.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: None specified | AWS Elastic BeanStalk | AWS Fargate | Amazon Elastic Cloud Compute (EC2) | Amazon Elastic Container Service (ECS) | Amazon Elastic Kubernetes Service (EKS)

Required: Yes

## See Also

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

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

# OSInfo

Information about the operating system.

## Contents

### type

Information about the type of operating system.

Type: String

Valid Values: LINUX | WINDOWS

Required: No

### version

Information about the version of operating system.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: .\*\S.\*

Required: No

## See Also

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

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

# PrioritizeBusinessGoals

Rank of business goals based on priority.

## Contents

### **businessGoals**

Rank of business goals based on priority.

Type: [BusinessGoals](#) (p. 76) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RecommendationReportDetails

Contains detailed information about a recommendation report.

## Contents

### **completionTime**

The time that the recommendation report generation task completes.

Type: Timestamp

Required: No

### **s3Bucket**

The S3 bucket where the report file is located.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

### **s3Keys**

The Amazon S3 key name of the report file.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

### **startTime**

The time that the recommendation report generation task starts.

Type: Timestamp

Required: No

### **status**

The status of the recommendation report generation task.

Type: String

Valid Values: `FAILED` | `IN_PROGRESS` | `SUCCESS`

Required: No

### **statusMessage**

The status message for recommendation report generation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.



Pattern: `.*\S.*`

Required: No

## See Also

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

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

# RecommendationSet

Contains a recommendation set.

## Contents

### **strategy**

The recommended strategy.

Type: String

Valid Values: Rehost | Retirement | Refactor | Replatform | Retain | Relocate | Repurchase

Required: No

### **targetDestination**

The recommended target destination.

Type: String

Valid Values: None specified | AWS Elastic BeanStalk | AWS Fargate | Amazon Elastic Cloud Compute (EC2) | Amazon Elastic Container Service (ECS) | Amazon Elastic Kubernetes Service (EKS) | Aurora MySQL | Aurora PostgreSQL | Amazon Relational Database Service on MySQL | Amazon Relational Database Service on PostgreSQL | Amazon DocumentDB | Amazon DynamoDB | Amazon Relational Database Service

Required: No

### **transformationTool**

The target destination for the recommendation set.

Type: [TransformationTool \(p. 113\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# S3Object

Contains the S3 bucket name and the Amazon S3 key name.

## Contents

### **s3Bucket**

The S3 bucket name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: `[0-9a-z]+[0-9a-z\.\-]*[0-9a-z]+`

Required: No

### **s3key**

The Amazon S3 key name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

## See Also

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

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

# SelfManageResources

Self-managed resources.

## Contents

### **targetDestination**

Self-managed resources target destination.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `None specified` | `Amazon Elastic Cloud Compute (EC2)` | `Amazon Elastic Container Service (ECS)` | `Amazon Elastic Kubernetes Service (EKS)`

Required: Yes

## See Also

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

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

# ServerDetail

Detailed information about a server.

## Contents

### **antipatternReportS3Object**

The S3 bucket name and Amazon S3 key name for anti-pattern report.

Type: [S3Object \(p. 100\)](#) object

Required: No

### **antipatternReportStatus**

The status of the anti-pattern report generation.

Type: String

Valid Values: `FAILED` | `IN_PROGRESS` | `SUCCESS`

Required: No

### **antipatternReportStatusMessage**

A message about the status of the anti-pattern report generation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

### **applicationComponentStrategySummary**

A list of strategy summaries.

Type: Array of [StrategySummary \(p. 111\)](#) objects

Required: No

### **dataCollectionStatus**

The status of assessment for the server.

Type: String

Valid Values: `dataCollectionTaskToBeScheduled` | `dataCollectionTaskScheduled`  
| `dataCollectionTaskStarted` | `dataCollectionTaskStopped`  
| `dataCollectionTaskSuccess` | `dataCollectionTaskFailed` |  
`dataCollectionTaskPartialSuccess`

Required: No

### **id**

The server ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 44.

Pattern: `^[0-9a-b]+`

Required: No

**lastAnalyzedTimestamp**

The timestamp of when the server was assessed.

Type: Timestamp

Required: No

**listAntipatternSeveritySummary**

A list of anti-pattern severity summaries.

Type: Array of [AntipatternSeveritySummary \(p. 64\)](#) objects

Required: No

**name**

The name of the server.

Type: String

Required: No

**recommendationSet**

A set of recommendations.

Type: [RecommendationSet \(p. 99\)](#) object

Required: No

**serverType**

The type of server.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

**statusMessage**

A message about the status of data collection, which contains detailed descriptions of any error messages.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*\S.*`

Required: No

**systemInfo**

System information about the server.

Type: [SystemInfo](#) (p. 112) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ServerStrategy

Contains information about a strategy recommendation for a server.

## Contents

### **isPreferred**

Set to true if the recommendation is set as preferred.

Type: Boolean

Required: No

### **numberOfApplicationComponents**

The number of application components with this strategy recommendation running on the server.

Type: Integer

Required: No

### **recommendation**

Strategy recommendation for the server.

Type: [RecommendationSet \(p. 99\)](#) object

Required: No

### **status**

The recommendation status of the strategy for the server.

Type: String

Valid Values: `recommended` | `viableOption` | `notRecommended`

Required: No

## See Also

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

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



# ServerSummary

Object containing details about the servers imported by Application Discovery Service

## Contents

### **count**

Number of servers.

Type: Integer

Required: No

### **ServerOsType**

Type of operating system for the servers.

Type: String

Valid Values: `WindowsServer` | `AmazonLinux` | `EndOfSupportWindowsServer` | `Redhat`  
| `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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SourceCode

Object containing source code information that is linked to an application component.

## Contents

### location

The repository name for the source code.

Type: String

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

Pattern: `.*\S.*`

Required: No

### sourceVersion

The branch of the source code.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: `.*\S.*`

Required: No

### versionControl

The type of repository to use for the source code.

Type: String

Valid Values: `GITHUB` | `GITHUB_ENTERPRISE`

Required: No

## See Also

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

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

# SourceCodeRepository

Object containing source code information that is linked to an application component.

## Contents

### **branch**

The branch of the source code.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

### **repository**

The repository name for the source code.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

### **versionControlType**

The type of repository to use for the source code.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\.S.\*

Required: No

## See Also

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

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

# StrategyOption

Information about all the available strategy options for migrating and modernizing an application component.

## Contents

### **isPreferred**

Indicates if a specific strategy is preferred for the application component.

Type: Boolean

Required: No

### **strategy**

Type of transformation. For example, Rehost, Replatform, and so on.

Type: String

Valid Values: Rehost | Retirement | Refactor | Replatform | Retain | Relocate | Repurchase

Required: No

### **targetDestination**

Destination information about where the application component can migrate to. For example, EC2, ECS, and so on.

Type: String

Valid Values: None specified | AWS Elastic BeanStalk | AWS Fargate | Amazon Elastic Cloud Compute (EC2) | Amazon Elastic Container Service (ECS) | Amazon Elastic Kubernetes Service (EKS) | Aurora MySQL | Aurora PostgreSQL | Amazon Relational Database Service on MySQL | Amazon Relational Database Service on PostgreSQL | Amazon DocumentDB | Amazon DynamoDB | Amazon Relational Database Service

Required: No

### **toolName**

The name of the tool that can be used to transform an application component using this strategy.

Type: String

Valid Values: App2Container | Porting Assistant For .NET | End of Support Migration | Windows Web Application Migration Assistant | Application Migration Service | Strategy Recommendation Support | In Place Operating System Upgrade | Schema Conversion Tool | Database Migration Service | Native SQL Server Backup/Restore

Required: No

## See Also

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

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

# StrategySummary

Object containing the summary of the strategy recommendations.

## Contents

### **count**

The count of recommendations per strategy.

Type: Integer

Required: No

### **strategy**

The name of recommended strategy.

Type: String

Valid Values: `Rehost` | `Retirement` | `Refactor` | `Replatform` | `Retain` | `Relocate` | `Repurchase`

Required: No

## See Also

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

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

# SystemInfo

Information about the server that hosts application components.

## Contents

### **cpuArchitecture**

CPU architecture type for the server.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

Required: No

### **fileSystemType**

File system type for the server.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .\*\S.\*

Required: No

### **networkInfoList**

Networking information related to a server.

Type: Array of [NetworkInfo \(p. 91\)](#) objects

Required: No

### **osInfo**

Operating system corresponding to a server.

Type: [OSInfo \(p. 95\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TransformationTool

Information of the transformation tool that can be used to migrate and modernize the application.

## Contents

### description

Description of the tool.

Type: String

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

Pattern: .\*\\S.\*

Required: No

### name

Name of the tool.

Type: String

Valid Values: App2Container | Porting Assistant For .NET | End of Support Migration | Windows Web Application Migration Assistant | Application Migration Service | Strategy Recommendation Support | In Place Operating System Upgrade | Schema Conversion Tool | Database Migration Service | Native SQL Server Backup/Restore

Required: No

### transformationToolInstallationLink

URL for installing the tool.

Type: String

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

Pattern: .\*\\S.\*

Required: No

## See Also

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

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



# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

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

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

#### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

#### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

#### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

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

HTTP Status Code: 500

## **InvalidAction**

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

HTTP Status Code: 400

## **InvalidClientTokenId**

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

HTTP Status Code: 403

## **InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

## **InvalidParameterValue**

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

HTTP Status Code: 400

## **InvalidQueryParameter**

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

HTTP Status Code: 400

## **MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

## **MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400

**MissingAuthenticationToken**

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

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

**OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

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

HTTP Status Code: 400

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400