



API Reference Guide

# AWS Systems Manager for SAP



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# AWS Systems Manager for SAP: API Reference Guide

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# Welcome

This API reference provides descriptions, syntax, and other details about each of the actions and data types for AWS Systems Manager for SAP. The topic for each action shows the API request parameters and responses.

This document was last published on July 2, 2024.

# Actions

The following actions are supported:

- [DeleteResourcePermission](#)
- [DeregisterApplication](#)
- [GetApplication](#)
- [GetComponent](#)
- [GetDatabase](#)
- [GetOperation](#)
- [GetResourcePermission](#)
- [ListApplications](#)
- [ListComponents](#)
- [ListDatabases](#)
- [ListOperationEvents](#)
- [ListOperations](#)
- [ListTagsForResource](#)
- [PutResourcePermission](#)
- [RegisterApplication](#)
- [StartApplication](#)
- [StartApplicationRefresh](#)
- [StopApplication](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateApplicationSettings](#)

# DeleteResourcePermission

Removes permissions associated with the target database.

## Request Syntax

```
POST /delete-resource-permission HTTP/1.1
Content-type: application/json
```

```
{
  "ActionType": "string",
  "ResourceArn": "string",
  "SourceResourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ActionType

Delete or restore the permissions on the target database.

Type: String

Valid Values: RESTORE

Required: No

### ResourceArn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:(.+){2,4}.*$|^arn:(.+){1,3}.*\./.*`

Required: Yes

## SourceResourceArn

The Amazon Resource Name (ARN) of the source resource.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

## Response Syntax

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

{
  "Policy": "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.

### Policy

The policy that removes permissions on the target database.

Type: String

## Errors

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

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

## ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

## ValidationException

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

HTTP Status Code: 400

## See Also

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

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

# DeregisterApplication

Deregister an SAP application with AWS Systems Manager for SAP. This action does not affect the existing setup of your SAP workloads on Amazon EC2.

## Request Syntax

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

{
  "ApplicationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

### UnauthorizedException

The request is not authorized.

HTTP Status Code: 401

### ValidationException

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

HTTP Status Code: 400

## See Also

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

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



# GetApplication

Gets an application registered with AWS Systems Manager for SAP. It also returns the components of the application.

## Request Syntax

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

```
{
  "ApplicationArn": "string",
  "ApplicationId": "string",
  "AppRegistryArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationArn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### AppRegistryArn

The Amazon Resource Name (ARN) of the application registry.

Type: String

Pattern: `arn:aws:servicecatalog:[a-z0-9:\-]+`

Required: No

## Response Syntax

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

{
  "Application": {
    "AppRegistryArn": "string",
    "Arn": "string",
    "Components": [ "string" ],
    "DiscoveryStatus": "string",
    "Id": "string",
    "LastUpdated": number,
    "Status": "string",
    "StatusMessage": "string",
    "Type": "string"
  },
  "Tags": {
    "string" : "string"
  }
}
```

## Response Elements

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

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

### Application

Returns all of the metadata of an application registered with AWS Systems Manager for SAP.

Type: [Application](#) object

## Tags

The tags of a registered application.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+-. \_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

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

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

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

# GetComponent

Gets the component of an application registered with AWS Systems Manager for SAP.

## Request Syntax

```
POST /get-component HTTP/1.1
Content-type: application/json

{
  "ApplicationId": "string",
  "ComponentId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

### ComponentId

The ID of the component.

Type: String

Pattern: `[\w\d-]+`

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "Component": {
    "ApplicationId": "string",
    "Arn": "string",
    "AssociatedHost": {
      "Ec2InstanceId": "string",
      "Hostname": "string",
      "IpAddresses": [
        {
          "AllocationType": "string",
          "IpAddress": "string",
          "Primary": boolean
        }
      ],
      "OsVersion": "string"
    },
    "ChildComponents": [ "string" ],
    "ComponentId": "string",
    "ComponentType": "string",
    "DatabaseConnection": {
      "ConnectionIp": "string",
      "DatabaseArn": "string",
      "DatabaseConnectionMethod": "string"
    },
    "Databases": [ "string" ],
    "HdbVersion": "string",
    "Hosts": [
      {
        "EC2InstanceId": "string",
        "HostIp": "string",
        "HostName": "string",
        "HostRole": "string",
        "InstanceId": "string",
        "OsVersion": "string"
      }
    ],
    "LastUpdated": number,
    "ParentComponent": "string",
```

```

    "PrimaryHost": "string",
    "Resilience": {
      "ClusterStatus": "string",
      "EnqueueReplication": boolean,
      "HsrOperationMode": "string",
      "HsrReplicationMode": "string",
      "HsrTier": "string"
    },
    "SapFeature": "string",
    "SapHostname": "string",
    "SapKernelVersion": "string",
    "Sid": "string",
    "Status": "string",
    "SystemNumber": "string"
  },
  "Tags": {
    "string" : "string"
  }
}

```

## Response Elements

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

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

### Component

The component of an application registered with AWS Systems Manager for SAP.

Type: [Component](#) object

### Tags

The tags of a component.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

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

### InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

### UnauthorizedException

The request is not authorized.

HTTP Status Code: 401

### ValidationException

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

HTTP Status Code: 400

## See Also

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

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



# GetDatabase

Gets the SAP HANA database of an application registered with AWS Systems Manager for SAP.

## Request Syntax

```
POST /get-database HTTP/1.1
Content-type: application/json
```

```
{
  "ApplicationId": "string",
  "ComponentId": "string",
  "DatabaseArn": "string",
  "DatabaseId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### ComponentId

The ID of the component.

Type: String

Pattern: `[\w\d-]+`

Required: No

## DatabaseArn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

## DatabaseId

The ID of the database.

Type: String

Pattern: `.*[\w\d]+`

Required: No

## Response Syntax

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

{
  "Database": {
    "ApplicationId": "string",
    "Arn": "string",
    "ComponentId": "string",
    "Credentials": [
      {
        "CredentialType": "string",
        "DatabaseName": "string",
        "SecretId": "string"
      }
    ],
    "DatabaseId": "string",
    "DatabaseName": "string",
    "DatabaseType": "string",
    "LastUpdated": number,
    "PrimaryHost": "string",
    "SQLPort": number,
```

```
    "Status": "string"
  },
  "Tags": {
    "string" : "string"
  }
}
```

## Response Elements

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

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

### Database

The SAP HANA database of an application registered with AWS Systems Manager for SAP.

Type: [Database](#) object

### Tags

The tags of a database.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+ -= . \_ : / ] +

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

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

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# GetOperation

Gets the details of an operation by specifying the operation ID.

## Request Syntax

```
POST /get-operation HTTP/1.1
Content-type: application/json

{
  "OperationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: Yes

## Response Syntax

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

{
  "Operation": {
    "EndTime": number,
```

```
"Id": "string",
"LastUpdatedTime": number,
"Properties": {
  "string" : "string"
},
"ResourceArn": "string",
"ResourceId": "string",
"ResourceType": "string",
"StartTime": number,
"Status": "string",
"StatusMessage": "string",
"Type": "string"
}
}
```

## Response Elements

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

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

### Operation

Returns the details of an operation.

Type: [Operation](#) object

## Errors

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

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# GetResourcePermission

Gets permissions associated with the target database.

## Request Syntax

```
POST /get-resource-permission HTTP/1.1
Content-type: application/json
```

```
{
  "ActionType": "string",
  "ResourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ActionType

Type: String

Valid Values: RESTORE

Required: No

### ResourceArn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:(.+){2,4}.$|^arn:(.+){1,3}.\./.+`

Required: Yes



## Response Syntax

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

{
  "Policy": "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.

### Policy

Type: String

## Errors

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

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# ListApplications

Lists all the applications registered with AWS Systems Manager for SAP.

## Request Syntax

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

```
{
  "Filters": [
    {
      "Name": "string",
      "Operator": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Filters

The filter of name, value, and operator.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

### MaxResults

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

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: `.{16,1024}`

Required: No

## Response Syntax

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

{
  "Applications": [
    {
      "Arn": "string",
      "DiscoveryStatus": "string",
      "Id": "string",
      "Tags": {
        "string" : "string"
      },
      "Type": "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.

## Applications

The applications registered with AWS Systems Manager for SAP.

Type: Array of [ApplicationSummary](#) objects

## NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,1024}`

## Errors

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

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListComponents

Lists all the components registered with AWS Systems Manager for SAP.

## Request Syntax

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

```
{
  "ApplicationId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### MaxResults

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

If you do not specify a value for MaxResults, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: .{16,1024}

Required: No

## Response Syntax

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

{
  "Components": [
    {
      "ApplicationId": "string",
      "Arn": "string",
      "ComponentId": "string",
      "ComponentType": "string",
      "Tags": {
        "string" : "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.

### Components

List of components registered with AWS System Manager for SAP.



Type: Array of [ComponentSummary](#) objects

### [NextToken](#)

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: . {16,1024}

## Errors

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

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **UnauthorizedException**

The request is not authorized.

HTTP Status Code: 401

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# ListDatabases

Lists the SAP HANA databases of an application registered with AWS Systems Manager for SAP.

## Request Syntax

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

```
{
  "ApplicationId": "string",
  "ComponentId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### ComponentId

The ID of the component.

Type: String

Pattern: `[\w\d-]+`

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value. If you do not specify a value for `MaxResults`, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: `.{16,1024}`

Required: No

## Response Syntax

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

{
  "Databases": [
    {
      "ApplicationId": "string",
      "Arn": "string",
      "ComponentId": "string",
      "DatabaseId": "string",
      "DatabaseType": "string",
      "Tags": {
        "string" : "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.

### Databases

The SAP HANA databases of an application.

Type: Array of [DatabaseSummary](#) objects

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: . {16,1024}

## Errors

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

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# ListOperationEvents

Returns a list of operations events.

Available parameters include `OperationID`, as well as optional parameters `MaxResults`, `NextToken`, and `Filters`.

## Request Syntax

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

{
  "Filters": [
    {
      "Name": "string",
      "Operator": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "OperationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Filters

Optionally specify filters to narrow the returned operation event items.

Valid filter names include `status`, `resourceID`, and `resourceType`. The valid operator for all three filters is `Equals`.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

### MaxResults

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

If you do not specify a value for `MaxResults`, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,1024}`

Required: No

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[{}]?`

Required: Yes

## Response Syntax

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

{
```



```
"NextToken": "string",
"OperationEvents": [
  {
    "Description": "string",
    "Resource": {
      "ResourceArn": "string",
      "ResourceType": "string"
    },
    "Status": "string",
    "StatusMessage": "string",
    "Timestamp": 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.

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,1024}`

### OperationEvents

A returned list of operation events that meet the filter criteria.

Type: Array of [OperationEvent](#) objects

## Errors

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

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

## ValidationException

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

HTTP Status Code: 400

## See Also

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

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

# ListOperations

Lists the operations performed by AWS Systems Manager for SAP.

## Request Syntax

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

```
{
  "ApplicationId": "string",
  "Filters": [
    {
      "Name": "string",
      "Operator": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

### Filters

The filters of an operation.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

### [MaxResults](#)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value. If you do not specify a value for `MaxResults`, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### [NextToken](#)

The token for the next page of results.

Type: String

Pattern: `.{16,1024}`

Required: No

## Response Syntax

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

{
  "NextToken": "string",
  "Operations": [
    {
      "EndTime": number,
      "Id": "string",
      "LastUpdatedTime": number,
      "Properties": {
        "string" : "string"
      },
      "ResourceArn": "string",
```

```
    "ResourceId": "string",
    "ResourceType": "string",
    "StartTime": number,
    "Status": "string",
    "StatusMessage": "string",
    "Type": "string"
  }
]
```

## Response Elements

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

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

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: .{16,1024}

### Operations

List of operations performed by AWS Systems Manager for SAP.

Type: Array of [Operation](#) objects

## Errors

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

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# ListTagsForResource

Lists all tags on an SAP HANA application and/or database registered with AWS Systems Manager for SAP.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

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

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

## tags

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

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

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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



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

# PutResourcePermission

Adds permissions to the target database.

## Request Syntax

```
POST /put-resource-permission HTTP/1.1
Content-type: application/json

{
  "ActionType": "string",
  "ResourceArn": "string",
  "SourceResourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ActionType

Type: String

Valid Values: RESTORE

Required: Yes

### ResourceArn

Type: String

Pattern: arn:(.+){2,4}.\*\$|^arn:(.+){1,3}.\*\./.\*

Required: Yes

### SourceResourceArn

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: Yes

## Response Syntax

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

{
  "Policy": "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.

### Policy

Type: String

## Errors

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

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

## ValidationException

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

HTTP Status Code: 400

## See Also

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

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

# RegisterApplication

Register an SAP application with AWS Systems Manager for SAP. You must meet the following requirements before registering.

The SAP application you want to register with AWS Systems Manager for SAP is running on Amazon EC2.

AWS Systems Manager Agent must be setup on an Amazon EC2 instance along with the required IAM permissions.

Amazon EC2 instance(s) must have access to the secrets created in AWS Secrets Manager to manage SAP applications and components.

## Request Syntax

```
POST /register-application HTTP/1.1
```

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

```
{
  "ApplicationId": "string",
  "ApplicationType": "string",
  "Credentials": [
    {
      "CredentialType": "string",
      "DatabaseName": "string",
      "SecretId": "string"
    }
  ],
  "DatabaseArn": "string",
  "Instances": [ "string" ],
  "SapInstanceNumber": "string",
  "Sid": "string",
  "Tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

### ApplicationType

The type of the application.

Type: String

Valid Values: HANA | SAP\_ABAP

Required: Yes

### Credentials

The credentials of the SAP application.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

### DatabaseArn

The Amazon Resource Name of the SAP HANA database.

Type: String

Pattern: `arn:(.+){2,4}.+|^arn:(.+){1,3}.\+\/.+`

Required: No

### Instances

The Amazon EC2 instances on which your SAP application is running.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `i-[\w\d]{8}$|^i-[\w\d]{17}`

Required: Yes

### SapInstanceNumber

The SAP instance number of the application.

Type: String

Pattern: `[0-9]{2}`

Required: No

### Sid

The System ID of the application.

Type: String

Pattern: `[A-Z][A-Z0-9]{2}`

Required: No

### Tags

The tags to be attached to the SAP application.

Type: String to string map

Key Pattern: `(?!aws:)[a-zA-Z+--=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## Response Syntax

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

```
{
  "Application": {
    "AppRegistryArn": "string",
    "Arn": "string",
    "Components": [ "string" ],
    "DiscoveryStatus": "string",
    "Id": "string",
    "LastUpdated": number,
    "Status": "string",
    "StatusMessage": "string",
    "Type": "string"
  },
  "OperationId": "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.

### Application

The application registered with AWS Systems Manager for SAP.

Type: [Application](#) object

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

## Errors

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

### **ConflictException**

A conflict has occurred.



HTTP Status Code: 409

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

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

HTTP Status Code: 400

## **See Also**

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

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

# StartApplication

Request is an operation which starts an application.

Parameter `ApplicationId` is required.

## Request Syntax

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

{
  "ApplicationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

## Response Syntax

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

{
  "OperationId": "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.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

## Errors

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

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# StartApplicationRefresh

Refreshes a registered application.

## Request Syntax

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

{
  "ApplicationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

## Response Syntax

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

{
  "OperationId": "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.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]??`

## Errors

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

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **UnauthorizedException**

The request is not authorized.

HTTP Status Code: 401

### **ValidationException**

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

HTTP Status Code: 400

## See Also

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

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

# StopApplication

Request is an operation to stop an application.

Parameter `ApplicationId` is required. Parameters `StopConnectedEntity` and `IncludeEc2InstanceShutdown` are optional.

## Request Syntax

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

{
  "ApplicationId": "string",
  "IncludeEc2InstanceShutdown": boolean,
  "StopConnectedEntity": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

### IncludeEc2InstanceShutdown

Boolean. If included and if set to `True`, the `StopApplication` operation will shut down the associated Amazon EC2 instance in addition to the application.

Type: Boolean



Required: No

### StopConnectedEntity

Specify the `ConnectedEntityType`. Accepted type is DBMS.

If this parameter is included, the connected DBMS (Database Management System) will be stopped.

Type: String

Valid Values: DBMS

Required: No

## Response Syntax

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

{
  "OperationId": "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.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[])?`

## Errors

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

## ConflictException

A conflict has occurred.

HTTP Status Code: 409

## InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

## ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

## ValidationException

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

HTTP Status Code: 400

## See Also

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

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

# TagResource

Creates tag for a resource by specifying the ARN.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1  
Content-type: application/json
```

```
{  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(.+:){2,4}.+|^arn:(.+:){1,3}.+\/.+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The tags on a resource.

Type: String to string map

Key Pattern: `(?!aws:)[a-zA-Z+-._:\/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

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](#).

### ConflictException

A conflict has occurred.

HTTP Status Code: 409

### ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

### ValidationException

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

HTTP Status Code: 400

## See Also

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

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

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

# UntagResource

Delete the tags for a resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: Yes

### tagKeys

Adds/updates or removes credentials for applications registered with AWS Systems Manager for SAP.

Pattern: `(?!aws:)[a-zA-Z+-._: /]+`

Required: Yes

## Request Body

The request does not have a request body.

## 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](#).

### ConflictException

A conflict has occurred.

HTTP Status Code: 409

### ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

### ValidationException

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

HTTP Status Code: 400

## See Also

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

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

# UpdateApplicationSettings

Updates the settings of an application registered with AWS Systems Manager for SAP.

## Request Syntax

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

```
{
  "ApplicationId": "string",
  "Backint": {
    "BackintMode": "string",
    "EnsureNoBackupInProgress": boolean
  },
  "CredentialsToAddOrUpdate": [
    {
      "CredentialType": "string",
      "DatabaseName": "string",
      "SecretId": "string"
    }
  ],
  "CredentialsToRemove": [
    {
      "CredentialType": "string",
      "DatabaseName": "string",
      "SecretId": "string"
    }
  ],
  "DatabaseArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.



## ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: Yes

## Backint

Installation of AWS Backint Agent for SAP HANA.

Type: [BackintConfig](#) object

Required: No

## CredentialsToAddOrUpdate

The credentials to be added or updated.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

## CredentialsToRemove

The credentials to be removed.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

## DatabaseArn

The Amazon Resource Name of the SAP HANA database that replaces the current SAP HANA connection with the SAP\_ABAP application.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

## Response Syntax

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

{
  "Message": "string",
  "OperationIds": [ "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.

### Message

The update message.

Type: String

### OperationIds

The IDs of the operations.

Type: Array of strings

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

## Errors

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

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

## InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

## ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

## UnauthorizedException

The request is not authorized.

HTTP Status Code: 401

## ValidationException

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

HTTP Status Code: 400

## See Also

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

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

# Data Types

The AWS Systems Manager for SAP 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:

- [Application](#)
- [ApplicationCredential](#)
- [ApplicationSummary](#)
- [AssociatedHost](#)
- [BackintConfig](#)
- [Component](#)
- [ComponentSummary](#)
- [Database](#)
- [DatabaseConnection](#)
- [DatabaseSummary](#)
- [Filter](#)
- [Host](#)
- [IpAddressMember](#)
- [Operation](#)
- [OperationEvent](#)
- [Resilience](#)
- [Resource](#)

# Application

An SAP application registered with AWS Systems Manager for SAP.

## Contents

### AppRegistryArn

The Amazon Resource Name (ARN) of the Application Registry.

Type: String

Pattern: `arn:aws:servicecatalog:[a-z0-9:\-]+`

Required: No

### Arn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(.+){2,4}.$|^arn:(.+){1,3}.\-\/.+`

Required: No

### Components

The components of the application.

Type: Array of strings

Pattern: `[\w\d-]+`

Required: No

### DiscoveryStatus

The latest discovery result for the application.

Type: String

Valid Values: SUCCESS | REGISTRATION\_FAILED | REFRESH\_FAILED | REGISTERING | DELETING

Required: No

## **Id**

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

## **LastUpdated**

The time at which the application was last updated.

Type: Timestamp

Required: No

## **Status**

The status of the application.

Type: String

Valid Values: ACTIVATED | STARTING | STOPPED | STOPPING | FAILED | REGISTERING | DELETING | UNKNOWN

Required: No

## **StatusMessage**

The status message.

Type: String

Required: No

## **Type**

The type of the application.

Type: String

Valid Values: HANA | SAP\_ABAP

Required: No

## See Also

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

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

# ApplicationCredential

The credentials of your SAP application.

## Contents

### CredentialType

The type of the application credentials.

Type: String

Valid Values: ADMIN

Required: Yes

### DatabaseName

The name of the SAP HANA database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

### SecretId

The secret ID created in AWS Secrets Manager to store the credentials of the SAP application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

## See Also

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

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



- [AWS SDK for Ruby V3](#)

# ApplicationSummary

The summary of the SAP application registered with AWS Systems Manager for SAP.

## Contents

### Arn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(.+){2,4}.*$|^arn:(.+){1,3}.*\./.*`

Required: No

### DiscoveryStatus

The status of the latest discovery.

Type: String

Valid Values: SUCCESS | REGISTRATION\_FAILED | REFRESH\_FAILED | REGISTERING | DELETING

Required: No

### Id

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### Tags

The tags on the application.

Type: String to string map

Key Pattern: `(?!aws:)[a-zA-Z+-._: / ]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## Type

The type of the application.

Type: String

Valid Values: HANA | SAP\_ABAP

Required: No

## See Also

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

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

# AssociatedHost

Describes the properties of the associated host.

## Contents

### Ec2InstanceId

The ID of the Amazon EC2 instance.

Type: String

Required: No

### Hostname

The name of the host.

Type: String

Required: No

### IpAddresses

The IP addresses of the associated host.

Type: Array of [IpAddressMember](#) objects

Required: No

### OsVersion

The version of the operating system.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)

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

# BackintConfig

Configuration parameters for AWS Backint Agent for SAP HANA. You can backup your SAP HANA database with AWS Backup or Amazon S3.

## Contents

### BackintMode

AWS service for your database backup.

Type: String

Valid Values: AWSBackup

Required: Yes

### EnsureNoBackupInProgress

Type: Boolean

Required: Yes

## See Also

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

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

# Component

The SAP component of your application.

## Contents

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### Arn

The Amazon Resource Name (ARN) of the component.

Type: String

Pattern: `arn:(.+){2,4}.*$|^arn:(.+){1,3}.*\./.*`

Required: No

### AssociatedHost

The associated host of the component.

Type: [AssociatedHost](#) object

Required: No

### ChildComponents

The child components of a highly available environment. For example, in a highly available SAP on AWS workload, the child component consists of the primary and secondary instances.

Type: Array of strings

Pattern: `[\w\d-]+`

Required: No

## ComponentId

The ID of the component.

Type: String

Pattern: `[\w\d-]+`

Required: No

## ComponentType

The type of the component.

Type: String

Valid Values: HANA | HANA\_NODE | ABAP | ASCS | DIALOG | WEBDISP | WD | ERS

Required: No

## DatabaseConnection

The connection specifications for the database of the component.

Type: [DatabaseConnection](#) object

Required: No

## Databases

The SAP HANA databases of the component.

Type: Array of strings

Pattern: `.*[\w\d]+`

Required: No

## HdbVersion

The SAP HANA version of the component.

Type: String

Required: No



## Hosts

*This member has been deprecated.*

The hosts of the component.

Type: Array of [Host](#) objects

Required: No

## LastUpdated

The time at which the component was last updated.

Type: Timestamp

Required: No

## ParentComponent

The parent component of a highly available environment. For example, in a highly available SAP on AWS workload, the parent component consists of the entire setup, including the child components.

Type: String

Pattern: `[\w\d-]+`

Required: No

## PrimaryHost

*This member has been deprecated.*

The primary host of the component.

Type: String

Required: No

## Resilience

Details of the SAP HANA system replication for the component.

Type: [Resilience](#) object

Required: No

### **SapFeature**

The SAP feature of the component.

Type: String

Required: No

### **SapHostname**

The hostname of the component.

Type: String

Required: No

### **SapKernelVersion**

The kernel version of the component.

Type: String

Required: No

### **Sid**

The SAP System Identifier of the application component.

Type: String

Pattern: `[A-Z][A-Z0-9]{2}`

Required: No

### **Status**

The status of the component.

- **ACTIVATED** - this status has been deprecated.
- **STARTING** - the component is in the process of being started.
- **STOPPED** - the component is not running.
- **STOPPING** - the component is in the process of being stopped.
- **RUNNING** - the component is running.

- `RUNNING_WITH_ERROR` - one or more child component(s) of the parent component is not running. Call [GetComponent](#) to review the status of each child component.
- `UNDEFINED` - AWS Systems Manager for SAP cannot provide the component status based on the discovered information. Verify your SAP application.

Type: String

Valid Values: `ACTIVATED` | `STARTING` | `STOPPED` | `STOPPING` | `RUNNING` | `RUNNING_WITH_ERROR` | `UNDEFINED`

Required: No

## SystemNumber

The SAP system number of the application component.

Type: String

Pattern: `[0-9]{2}`

Required: No

## See Also

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

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

# ComponentSummary

The summary of the component.

## Contents

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### Arn

The Amazon Resource Name (ARN) of the component summary.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### ComponentId

The ID of the component.

Type: String

Pattern: `[\w\d-]+`

Required: No

### ComponentType

The type of the component.

Type: String

Valid Values: HANA | HANA\_NODE | ABAP | ASCS | DIALOG | WEBDISP | WD | ERS

Required: No

## Tags

The tags of the component.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+--=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

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

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

# Database

The SAP HANA database of the application registered with AWS Systems Manager for SAP.

## Contents

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### Arn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### ComponentId

The ID of the component.

Type: String

Pattern: `[\w\d-]+`

Required: No

### Credentials

The credentials of the database.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

## **DatabaseId**

The ID of the SAP HANA database.

Type: String

Pattern: . \* [\w\d] +

Required: No

## **DatabaseName**

The name of the database.

Type: String

Required: No

## **DatabaseType**

The type of the database.

Type: String

Valid Values: SYSTEM | TENANT

Required: No

## **LastUpdated**

The time at which the database was last updated.

Type: Timestamp

Required: No

## **PrimaryHost**

The primary host of the database.

Type: String

Required: No

## **SQLPort**

The SQL port of the database.

Type: Integer

Required: No

### Status

The status of the database.

Type: String

Valid Values: RUNNING | STARTING | STOPPED | WARNING | UNKNOWN | ERROR

Required: No

### See Also

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

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



# DatabaseConnection

The connection specifications for the database.

## Contents

### ConnectionIp

The IP address for connection.

Type: String

Required: No

### DatabaseArn

The Amazon Resource Name of the connected SAP HANA database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### DatabaseConnectionMethod

The method of connection.

Type: String

Valid Values: DIRECT | OVERLAY

Required: No

## See Also

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

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



# DatabaseSummary

The summary of the database.

## Contents

### ApplicationId

The ID of the application.

Type: String

Pattern: `[\w\d]{1,50}`

Required: No

### Arn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### ComponentId

The ID of the component.

Type: String

Pattern: `[\w\d-]+`

Required: No

### DatabaseId

The ID of the database.

Type: String

Pattern: `.*[\w\d]+`

Required: No

## DatabaseType

The type of the database.

Type: String

Valid Values: SYSTEM | TENANT

Required: No

## Tags

The tags of the database.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+ -= . \_ : / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

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

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

# Filter

A specific result obtained by specifying the name, value, and operator.

## Contents

### Name

The name of the filter. Filter names are case-sensitive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: Yes

### Operator

The operator for the filter.

Type: String

Valid Values: `Equals` | `GreaterThanOrEquals` | `LessThanOrEquals`

Required: Yes

### Value

The filter values. Filter values are case-sensitive. If you specify multiple values for a filter, the values are joined with an OR, and the request returns all results that match any of the specified values

Type: String

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

Required: Yes

## See Also

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

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

# Host

Describes the properties of the Dedicated Host.

## Contents

### EC2Instanceid

The ID of Amazon EC2 instance.

Type: String

Required: No

### HostIp

The IP address of the Dedicated Host.

Type: String

Required: No

### HostName

The name of the Dedicated Host.

Type: String

Required: No

### HostRole

The role of the Dedicated Host.

Type: String

Valid Values: LEADER | WORKER | STANDBY | UNKNOWN

Required: No

### Instanceid

The instance ID of the instance on the Dedicated Host.

Type: String

Required: No

## OsVersion

The version of the operating system.

Type: String

Required: No

## See Also

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

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



# IpAddressMember

Provides information of the IP address.

## Contents

### AllocationType

The type of allocation for the IP address.

Type: String

Valid Values: VPC\_SUBNET | ELASTIC\_IP | OVERLAY | UNKNOWN

Required: No

### IpAddress

The IP address.

Type: String

Required: No

### Primary

The primary IP address.

Type: Boolean

Required: No

## See Also

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

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

# Operation

The operations performed by AWS Systems Manager for SAP.

## Contents

### EndTime

The end time of the operation.

Type: Timestamp

Required: No

### Id

The ID of the operation.

Type: String

Pattern: `[{}?[\0-9a-fA-F]{8}-([\0-9a-fA-F]{4}-){3}[\0-9a-fA-F]{12}[]]?`

Required: No

### LastUpdatedTime

The time at which the operation was last updated.

Type: Timestamp

Required: No

### Properties

The properties of the operation.

Type: String to string map

Required: No

### ResourceArn

The Amazon Resource Name (ARN) of the operation.

Type: String

Pattern: `arn:(.+){2,4}.$|^arn:(.+){1,3}.\|\./.+`

Required: No

### **ResourceId**

The resource ID of the operation.

Type: String

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

Required: No

### **ResourceType**

The resource type of the operation.

Type: String

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

Required: No

### **StartTime**

The start time of the operation.

Type: Timestamp

Required: No

### **Status**

The status of the operation.

Type: String

Valid Values: INPROGRESS | SUCCESS | ERROR

Required: No

### **StatusMessage**

The status message of the operation.

Type: String

Required: No

## Type

The type of the operation.

Type: String

Required: No

## See Also

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

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

# OperationEvent

An operation event returns details for an operation, including key milestones which can be used to monitor and track operations in progress.

Operation events contain:

- Description string
- Resource, including its ARN and type
- Status
- StatusMessage string
- TimeStamp

Operation event examples include StartApplication or StopApplication.

## Contents

### Description

A description of the operation event. For example, "Stop the EC2 instance i-abcdefgh987654321".

Type: String

Required: No

### Resource

The resource involved in the operations event.

Contains ResourceArn ARN and ResourceType.

Type: [Resource](#) object

Required: No

### Status

The status of the operation event. The possible statuses are: IN\_PROGRESS, COMPLETED, and FAILED.

Type: String

Valid Values: IN\_PROGRESS | COMPLETED | FAILED

Required: No

### **StatusMessage**

The status message relating to a specific operation event.

Type: String

Required: No

### **Timestamp**

The timestamp of the specified operation event.

Type: Timestamp

Required: No

## **See Also**

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

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

# Resilience

Details of the SAP HANA system replication for the instance.

## Contents

### ClusterStatus

The cluster status of the component.

Type: String

Valid Values: ONLINE | STANDBY | MAINTENANCE | OFFLINE | NONE

Required: No

### EnqueueReplication

Indicates if or not enqueue replication is enabled for the ASCS component.

Type: Boolean

Required: No

### HsrOperationMode

The operation mode of the component.

Type: String

Valid Values: PRIMARY | LOGREPLAY | DELTA\_DATASHIPPING | LOGREPLAY\_READACCESS | NONE

Required: No

### HsrReplicationMode

The replication mode of the component.

Type: String

Valid Values: PRIMARY | NONE | SYNC | SYNCMEM | ASYNC

Required: No

## HsrTier

The tier of the component.

Type: String

Required: No

## See Also

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

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



# Resource

The resource contains a `ResourceArn` and the `ResourceType`.

## Contents

### ResourceArn

The Amazon Resource Name (ARN) of the source resource.

Example of `ResourceArn`: "arn:aws:ec2:us-east-1:111111111111:instance/i-abcdefgh987654321"

Type: String

Pattern: `arn:(.+){2,4}.*|^arn:(.+){1,3}.*\./.*`

Required: No

### ResourceType

The resource type.

Example of `ResourceType`: "AWS::SystemsManagerSAP::Component" or "AWS::EC2::Instance".

Type: String

Pattern: `[\w]+::[\w]+::[\w]+`

Required: No

## See Also

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

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

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

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

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

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

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

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

HTTP Status Code: 500

## **MalformedHttpRequestException**

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

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

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

HTTP Status Code: 403

### **RequestAbortedException**

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

HTTP Status Code: 400

### **RequestEntityTooLargeException**

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

HTTP Status Code: 413

### **RequestExpired**

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

HTTP Status Code: 400

### **RequestTimeoutException**

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

HTTP Status Code: 408

### **ServiceUnavailable**

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

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

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

HTTP Status Code: 403

**UnknownOperationException**

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

HTTP Status Code: 404

**ValidationError**

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

HTTP Status Code: 400