This document includes the following pages as published in the IAM API Guide:

* <https://docs.aws.amazon.com/IAM/latest/APIReference/API_DeleteServiceLinkedRole.html>
* <https://docs.aws.amazon.com/IAM/latest/APIReference/API_GetServiceLinkedRoleDeletionStatus.html>

# DeleteServiceLinkedRole

Submits a service-linked role deletion request and returns a DeletionTaskId, which you can use to check the status of the deletion. Before you call this operation, confirm that the role has no active sessions and that any resources used by the role in the linked service are deleted. If you call this operation more than once for the same service-linked role and an earlier deletion task is not complete, then the DeletionTaskId of the earlier request is returned.

If you submit a deletion request for a service-linked role whose linked service is still accessing a resource, then the deletion task fails. If it fails, the [GetServiceLinkedRoleDeletionStatus](https://docs.aws.amazon.com/IAM/latest/APIReference/API_GetServiceLinkedRoleDeletionStatus.html) API operation returns the reason for the failure, usually including the resources that must be deleted. To delete the service-linked role, you must first remove those resources from the linked service and then submit the deletion request again. Resources are specific to the service that is linked to the role. For more information about removing resources from a service, see the [AWS documentation](http://docs.aws.amazon.com/) for your service.

For more information about service-linked roles, see [Roles Terms and Concepts: AWS Service-Linked Role](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_terms-and-concepts.html#iam-term-service-linked-role) in the IAM User Guide.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](https://docs.aws.amazon.com/IAM/latest/APIReference/CommonParameters.html).

**RoleName**

The name of the service-linked role to be deleted.

Type: String

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

Pattern: [\w+=,.@-]+

Required: Yes

## Response Elements

The following element is returned by the service.

**DeletionTaskId**

The deletion task identifier that you can use to check the status of the deletion. This identifier is returned in the format task/aws-service-role/<service-principal-name>/<role-name>/<task-uuid>.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

## Errors

For information about the errors that are common to all actions, see [Common Errors](https://docs.aws.amazon.com/IAM/latest/APIReference/CommonErrors.html).

**LimitExceeded**

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

**NoSuchEntity**

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

**ServiceFailure**

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

HTTP Status Code: 500

## Examples

### Example

The following example shows how to submit the role named AWSServiceRoleForLexBots for deletion.

#### Sample Request

https://iam.amazonaws.com/?Action=DeleteServiceLinkedRole

&RoleName=AWSServiceRoleForLexBots

&Version=2010-05-08

### Example

#### Sample Response

<DeleteServiceLinkedRoleResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">

 <DeleteServiceLinkedRoleResult>

 <DeletionTaskId>task/aws-service-role/lex.amazonaws.com/AWSServiceRoleForLexBots/ec720f7a-c0ba-4838-be33-f72e1873dd52</DeletionTaskId>

 </DeleteServiceLinkedRoleResult>

 <ResponseMetadata>

 <RequestId>4aff7ebf-8297-11e7-898c-4904717fb079</RequestId>

 </ResponseMetadata>

</DeleteServiceLinkedRoleResponse>

# GetServiceLinkedRoleDeletionStatus

Retrieves the status of your service-linked role deletion. After you use the [DeleteServiceLinkedRole](https://docs.aws.amazon.com/IAM/latest/APIReference/API_DeleteServiceLinkedRole.html) API operation to submit a service-linked role for deletion, you can use the DeletionTaskId parameter inGetServiceLinkedRoleDeletionStatus to check the status of the deletion. If the deletion fails, this operation returns the reason that it failed, if that information is returned by the service.

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](https://docs.aws.amazon.com/IAM/latest/APIReference/CommonParameters.html).

**DeletionTaskId**

The deletion task identifier. This identifier is returned by the [DeleteServiceLinkedRole](https://docs.aws.amazon.com/IAM/latest/APIReference/API_DeleteServiceLinkedRole.html) operation in the formattask/aws-service-role/<service-principal-name>/<role-name>/<task-uuid>.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: Yes

## Response Elements

The following elements are returned by the service.

**Reason**

An object that contains details about the reason the deletion failed.

Type: [DeletionTaskFailureReasonType](https://docs.aws.amazon.com/IAM/latest/APIReference/API_DeletionTaskFailureReasonType.html) object

**Status**

The status of the deletion.

Type: String

Valid Values: SUCCEEDED | IN\_PROGRESS | FAILED | NOT\_STARTED

## Errors

For information about the errors that are common to all actions, see [Common Errors](https://docs.aws.amazon.com/IAM/latest/APIReference/CommonErrors.html).

**InvalidInput**

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

**NoSuchEntity**

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

**ServiceFailure**

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

HTTP Status Code: 500

## Examples

### Example

The following example shows how to retrieve the status of the DeletionTaskId service-lined role deletion.

#### Sample Request

https://iam.amazonaws.com/?Action=GetServiceLinkedRoleDeletionStatus

&DeletionTaskId=task%2Faws-service-role%2Flex.amazonaws.com%2AWSServiceRoleForLexBots%2Fec720f7a-c0ba-4838-be33-f72e1873dd52

&Version=2010-05-08

### Example

The following example shows the status of the successful DeletionTaskId service-lined role deletion.

#### Sample Response

<GetServiceLinkedRoleDeletionStatusResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">

 <GetServiceLinkedRoleDeletionStatusResult>

 <Status>SUCCEEDED</Status>

 </GetServiceLinkedRoleDeletionStatusResult>

 <ResponseMetadata>

 <RequestId>aa9259f4-8297-11e7-9f8f-8b008627ec76</RequestId>

 </ResponseMetadata>

</GetServiceLinkedRoleDeletionStatusResponse>

### Example

The following example shows the status of the failed DeletionTaskId service-lined role deletion.

#### Sample Response

<GetServiceLinkedRoleDeletionStatusResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">

 <GetServiceLinkedRoleDeletionStatusResult>

 <Status>FAILED</Status>

 </GetServiceLinkedRoleDeletionStatusResult>

 <DeletionTaskFailureReasonType>

 <Reason>role is being used</Reason>

 <RoleUsageList>

 <RoleUsageType>

 <Region>us-east-1</Region>

 <Resources>

 <Resource>arn1<Resource>

 <Resource>arn2<Resource>

 </Resources>

 </RoleUsageType>

 <RoleUsageType>

 <Region>us-west-2</Region>

 <Resources>

 <Resource>arn3<Resource>

 <Resource>arn4<Resource>

 </Resources>

 </RoleUsageType>

 </RoleUsageList>

 </DeletionTaskFailureReasonType>

 <ResponseMetadata>

 <RequestId>aa9259f4-8297-11e7-9f8f-8b008627ec76</RequestId>

 </ResponseMetadata>

</GetServiceLinkedRoleDeletionStatusResponse>