



API Reference

AWS AppSync



API Version 2017-07-25

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AWS AppSync: API Reference

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Welcome

AWS AppSync provides API actions for creating and interacting with data sources using GraphQL from your application.

This document was last published on November 15, 2025.

Actions

The following actions are supported:

- [AssociateApi](#)
- [AssociateMergedGraphqlApi](#)
- [AssociateSourceGraphqlApi](#)
- [CreateApi](#)
- [CreateApiCache](#)
- [CreateApiKey](#)
- [CreateChannelNamespace](#)
- [CreateDataSource](#)
- [CreateDomainName](#)
- [CreateFunction](#)
- [CreateGraphqlApi](#)
- [CreateResolver](#)
- [CreateType](#)
- [DeleteApi](#)
- [DeleteApiCache](#)
- [DeleteApiKey](#)
- [DeleteChannelNamespace](#)
- [DeleteDataSource](#)
- [DeleteDomainName](#)
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- [DeleteGraphqlApi](#)
- [DeleteResolver](#)
- [DeleteType](#)
- [DisassociateApi](#)
- [DisassociateMergedGraphqlApi](#)
- [DisassociateSourceGraphqlApi](#)
- [EvaluateCode](#)

- [EvaluateMappingTemplate](#)
- [FlushApiCache](#)
- [GetApi](#)
- [GetApiAssociation](#)
- [GetApiCache](#)
- [GetChannelNamespace](#)
- [GetDataSource](#)
- [GetDataSourceIntrospection](#)
- [GetDomainName](#)
- [GetFunction](#)
- [GetGraphQLApi](#)
- [GetGraphQLApiEnvironmentVariables](#)
- [GetIntrospectionSchema](#)
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- [ListApiKeys](#)
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- [ListGraphQLApis](#)
- [ListResolvers](#)
- [ListResolversByFunction](#)
- [ListSourceApiAssociations](#)
- [ListTagsForResource](#)
- [ListTypes](#)
- [ListTypesByAssociation](#)

- [PutGraphQLApiEnvironmentVariables](#)
- [StartDataSourceIntrospection](#)
- [StartSchemaCreation](#)
- [StartSchemaMerge](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateApi](#)
- [UpdateApiCache](#)
- [UpdateApiKey](#)
- [UpdateChannelNamespace](#)
- [UpdateDataSource](#)
- [UpdateDomainName](#)
- [UpdateFunction](#)
- [UpdateGraphQLApi](#)
- [UpdateResolver](#)
- [UpdateSourceApiAssociation](#)
- [UpdateType](#)

AssociateApi

Maps an endpoint to your custom domain.

Request Syntax

```
POST /v1/domainnames/domainName/apiassociation HTTP/1.1
Content-type: application/json

{
  "apiId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

domainName

The domain name.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\\w\\d-]*\\.)?([\\w\\d-]+\\.)+[\\w\\d-]+$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

apiId

The API ID. Private APIs can not be associated with custom domains.

Type: String

Required: Yes

Response Syntax

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

{
  "apiAssociation": {
    "apiId": "string",
    "associationStatus": "string",
    "deploymentDetail": "string",
    "domainName": "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.

[apiAssociation](#)

The ApiAssociation object.

Type: [ApiAssociation](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateMergedGraphQLApi

Creates an association between a Merged API and source API using the source API's identifier.

Request Syntax

```
POST /v1/sourceApis/sourceApiIdentifier/mergedApiAssociations HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "mergedApiIdentifier": "string",
  "sourceApiAssociationConfig": {
    "mergeType": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

sourceApiIdentifier

The identifier of the AppSync Source API. This is generated by the AppSync service. In most cases, source APIs (especially in your account) only require the API ID value or ARN of the source API. However, source APIs from other accounts (cross-account use cases) strictly require the full resource ARN of the source API.

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description field.

Type: String

Required: No

[mergedApiIdentifier](#)

The identifier of the AppSync Merged API. This is generated by the AppSync service. In most cases, Merged APIs (especially in your account) only require the API ID value or ARN of the merged API. However, Merged APIs in other accounts (cross-account use cases) strictly require the full resource ARN of the merged API.

Type: String

Required: Yes

[sourceApiAssociationConfig](#)

The SourceApiAssociationConfig object data.

Type: [SourceApiAssociationConfig](#) object

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "sourceApiAssociation": {
    "associationArn": "string",
    "associationId": "string",
    "description": "string",
    "lastSuccessfulMergeDate": number,
    "mergedApiArn": "string",
    "mergedApiId": "string",
    "sourceApiArn": "string",
    "sourceApiAssociationConfig": {
      "mergeType": "string"
    },
    "sourceApiAssociationStatus": "string",
    "sourceApiAssociationStatusDetail": "string",
    "sourceApiId": "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.

sourceApiAssociation

The SourceApiAssociation object data.

Type: [SourceApiAssociation](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type CODE_ERROR, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is CODE_ERROR.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateSourceGraphQLApi

Creates an association between a Merged API and source API using the Merged API's identifier.

Request Syntax

```
POST /v1/mergedApis/mergedApiIdentifier/sourceApiAssociations HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "sourceApiAssociationConfig": {
    "mergeType": "string"
  },
  "sourceApiIdentifier": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

mergedApiIdentifier

The identifier of the AppSync Merged API. This is generated by the AppSync service. In most cases, Merged APIs (especially in your account) only require the API ID value or ARN of the merged API. However, Merged APIs in other accounts (cross-account use cases) strictly require the full resource ARN of the merged API.

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description field.

Type: String

Required: No

sourceApiAssociationConfig

The SourceApiAssociationConfig object data.

Type: [SourceApiAssociationConfig](#) object

Required: No

sourceApiIdentifier

The identifier of the AppSync Source API. This is generated by the AppSync service. In most cases, source APIs (especially in your account) only require the API ID value or ARN of the source API. However, source APIs from other accounts (cross-account use cases) strictly require the full resource ARN of the source API.

Type: String

Required: Yes

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "sourceApiAssociation": {
    "associationArn": "string",
    "associationId": "string",
    "description": "string",
    "lastSuccessfulMergeDate": number,
    "mergedApiArn": "string",
    "mergedApiId": "string",
    "sourceApiArn": "string",
    "sourceApiAssociationConfig": {
      "mergeType": "string"
    },
    "sourceApiAssociationStatus": "string",
    "sourceApiAssociationStatusDetail": "string",
    "sourceApiId": "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.

sourceApiAssociation

The SourceApiAssociation object data.

Type: [SourceApiAssociation](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type CODE_ERROR, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is CODE_ERROR.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateApi

Creates an Api object. Use this operation to create an AWS AppSync API with your preferred configuration, such as an Event API that provides real-time message publishing and message subscriptions over WebSockets.

Request Syntax

```
POST /v2/apis HTTP/1.1
Content-type: application/json

{
  "eventConfig": {
    "authProviders": [
      {
        "authType": "string",
        "cognitoConfig": {
          "appIdClientRegex": "string",
          "awsRegion": "string",
          "userPoolId": "string"
        },
        "lambdaAuthorizerConfig": {
          "authorizerResultTtlInSeconds": number,
          "authorizerUri": "string",
          "identityValidationExpression": "string"
        },
        "openIDConnectConfig": {
          "authTTL": number,
          "clientId": "string",
          "iatTTL": number,
          "issuer": "string"
        }
      }
    ],
    "connectionAuthModes": [
      {
        "authType": "string"
      }
    ],
    "defaultPublishAuthModes": [
      {
        "authType": "string"
      }
    ]
  }
}
```

```
    }
  ],
  "defaultSubscribeAuthModes": [
    {
      "authType": "string"
    }
  ],
  "logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "logLevel": "string"
  }
},
"name": "string",
"ownerContact": "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.

eventConfig

The Event API configuration. This includes the default authorization configuration for connecting, publishing, and subscribing to an Event API.

Type: [EventConfig](#) object

Required: No

name

The name for the Api.

Type: String

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

Pattern: [A-Za-z0-9_\- \]+

Required: Yes

ownerContact

The owner contact information for the Api.

Type: String

Required: No

tags

A map with keys of TagKey objects and values of TagValue objects.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[\\s\\w+ -=\\.:/@]*`

Required: No

Response Syntax

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

{
  "api": {
    "apiArn": "string",
    "apiId": "string",
    "created": number,
    "dns": {
      "string" : "string"
    },
    "eventConfig": {
      "authProviders": [
        {
          "authType": "string",
```

```

    "cognitoConfig": {
      "appIdClientRegex": "string",
      "awsRegion": "string",
      "userPoolId": "string"
    },
    "lambdaAuthorizerConfig": {
      "authorizerResultTtlInSeconds": number,
      "authorizerUri": "string",
      "identityValidationExpression": "string"
    },
    "openIDConnectConfig": {
      "authTTL": number,
      "clientId": "string",
      "iatTTL": number,
      "issuer": "string"
    }
  ],
  "connectionAuthModes": [
    {
      "authType": "string"
    }
  ],
  "defaultPublishAuthModes": [
    {
      "authType": "string"
    }
  ],
  "defaultSubscribeAuthModes": [
    {
      "authType": "string"
    }
  ],
  "logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "logLevel": "string"
  },
  "name": "string",
  "ownerContact": "string",
  "tags": {
    "string" : "string"
  },
  "wafWebAclArn": "string",

```

```
    "xrayEnabled": 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.

api

The `Api` object.

Type: [Api](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

ServiceQuotaExceededException

The operation exceeded the service quota for this resource.

HTTP Status Code: 402

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateApiCache

Creates a cache for the GraphQL API.

Request Syntax

```
POST /v1/apis/apiId/ApiCaches HTTP/1.1
Content-type: application/json
```

```
{
  "apiCachingBehavior": "string",
  "atRestEncryptionEnabled": boolean,
  "healthMetricsConfig": "string",
  "transitEncryptionEnabled": boolean,
  "ttl": number,
  "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The GraphQL API ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

apiCachingBehavior

Caching behavior.

- **FULL_REQUEST_CACHING:** All requests from the same user are cached. Individual resolvers are automatically cached. All API calls will try to return responses from the cache.
- **PER_RESOLVER_CACHING:** Individual resolvers that you specify are cached.
- **OPERATION_LEVEL_CACHING:** Full requests are cached together and returned without executing resolvers.

Type: String

Valid Values: FULL_REQUEST_CACHING | PER_RESOLVER_CACHING | OPERATION_LEVEL_CACHING

Required: Yes

atRestEncryptionEnabled

This parameter has been deprecated.

At-rest encryption flag for cache. You cannot update this setting after creation.

Type: Boolean

Required: No

healthMetricsConfig

Controls how cache health metrics will be emitted to CloudWatch. Cache health metrics include:

- **NetworkBandwidthOutAllowanceExceeded:** The network packets dropped because the throughput exceeded the aggregated bandwidth limit. This is useful for diagnosing bottlenecks in a cache configuration.
- **EngineCPUUtilization:** The CPU utilization (percentage) allocated to the Redis process. This is useful for diagnosing bottlenecks in a cache configuration.

Metrics will be recorded by API ID. You can set the value to ENABLED or DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

transitEncryptionEnabled

This parameter has been deprecated.

Transit encryption flag when connecting to cache. You cannot update this setting after creation.

Type: Boolean

Required: No

ttl

TTL in seconds for cache entries.

Valid values are 1–3,600 seconds.

Type: Long

Required: Yes

type

The cache instance type. Valid values are

- SMALL
- MEDIUM
- LARGE
- XLARGE
- LARGE_2X
- LARGE_4X
- LARGE_8X (not available in all regions)
- LARGE_12X

Historically, instance types were identified by an EC2-style value. As of July 2020, this is deprecated, and the generic identifiers above should be used.

The following legacy instance types are available, but their use is discouraged:

- **T2_SMALL**: A t2.small instance type.
- **T2_MEDIUM**: A t2.medium instance type.
- **R4_LARGE**: A r4.large instance type.
- **R4_XLARGE**: A r4.xlarge instance type.
- **R4_2XLARGE**: A r4.2xlarge instance type.
- **R4_4XLARGE**: A r4.4xlarge instance type.
- **R4_8XLARGE**: A r4.8xlarge instance type.

Type: String

Valid Values: T2_SMALL | T2_MEDIUM | R4_LARGE | R4_XLARGE | R4_2XLARGE | R4_4XLARGE | R4_8XLARGE | SMALL | MEDIUM | LARGE | XLARGE | LARGE_2X | LARGE_4X | LARGE_8X | LARGE_12X

Required: Yes

Response Syntax

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

{
  "apiCache": {
    "apiCachingBehavior": "string",
    "atRestEncryptionEnabled": boolean,
    "healthMetricsConfig": "string",
    "status": "string",
    "transitEncryptionEnabled": boolean,
    "ttl": number,
    "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.

apiCache

The ApiCache object.

Type: [ApiCache](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateApiKey

Creates a unique key that you can distribute to clients who invoke your API.

Request Syntax

```
POST /v1/apis/apiId/apikeys HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "expires": number
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The ID for your GraphQL API.

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A description of the purpose of the API key.

Type: String

Required: No

expires

From the creation time, the time after which the API key expires. The date is represented as seconds since the epoch, rounded down to the nearest hour. The default value for this parameter is 7 days from creation time. For more information, see [ApiKey](#).

Type: Long

Required: No

Response Syntax

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

{
  "apiKey": {
    "deletes": number,
    "description": "string",
    "expires": 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.

[apiKey](#)

The API key.

Type: [ApiKey](#) object

Errors

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

ApiKeyLimitExceededException

The API key exceeded a limit. Try your request again.

HTTP Status Code: 400

ApiKeyValidityOutOfBoundsException

The API key expiration must be set to a value between 1 and 365 days from creation (for `CreateApiKey`) or from update (for `UpdateApiKey`).

HTTP Status Code: 400

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateChannelNamespace

Creates a ChannelNamespace for an Api.

Request Syntax

POST /v2/apis/*apiId*/channelNamespaces HTTP/1.1
Content-type: application/json

```
{
  "codeHandlers": "string",
  "handlerConfigs": {
    "onPublish": {
      "behavior": "string",
      "integration": {
        "dataSourceName": "string",
        "lambdaConfig": {
          "invokeType": "string"
        }
      }
    },
    "onSubscribe": {
      "behavior": "string",
      "integration": {
        "dataSourceName": "string",
        "lambdaConfig": {
          "invokeType": "string"
        }
      }
    }
  },
  "name": "string",
  "publishAuthModes": [
    {
      "authType": "string"
    }
  ],
  "subscribeAuthModes": [
    {
      "authType": "string"
    }
  ],
  "tags": {
```

```
    "string" : "string"  
  }  
}
```

URI Request Parameters

The request uses the following URI parameters.

[apiId](#)

The Api ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[codeHandlers](#)

The event handler functions that run custom business logic to process published events and subscribe requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

[handlerConfigs](#)

The configuration for the OnPublish and OnSubscribe handlers.

Type: [HandlerConfigs](#) object

Required: No

[name](#)

The name of the ChannelNamespace. This name must be unique within the Api

Type: String

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

Pattern: ([A-Za-z0-9](?:[A-Za-z0-9\-_]{0,48}[A-Za-z0-9])?)

Required: Yes

[publishAuthModes](#)

The authorization mode to use for publishing messages on the channel namespace. This configuration overrides the default `Api` authorization configuration.

Type: Array of [AuthMode](#) objects

Required: No

[subscribeAuthModes](#)

The authorization mode to use for subscribing to messages on the channel namespace. This configuration overrides the default `Api` authorization configuration.

Type: Array of [AuthMode](#) objects

Required: No

[tags](#)

A map with keys of `TagKey` objects and values of `TagValue` objects.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: ^[\s\w+-. \.:/@]*\$

Required: No

Response Syntax

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

{
```

```

"channelNamespace": {
  "apiId": "string",
  "channelNamespaceArn": "string",
  "codeHandlers": "string",
  "created": number,
  "handlerConfigs": {
    "onPublish": {
      "behavior": "string",
      "integration": {
        "dataSourceName": "string",
        "lambdaConfig": {
          "invokeType": "string"
        }
      }
    },
    "onSubscribe": {
      "behavior": "string",
      "integration": {
        "dataSourceName": "string",
        "lambdaConfig": {
          "invokeType": "string"
        }
      }
    }
  },
  "lastModified": number,
  "name": "string",
  "publishAuthModes": [
    {
      "authType": "string"
    }
  ],
  "subscribeAuthModes": [
    {
      "authType": "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.

channelNamespace

The ChannelNamespace object.

Type: [ChannelNamespace](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

ConflictException

A conflict with a previous successful update is detected. This typically occurs when the previous update did not have time to propagate before the next update was made. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

ServiceQuotaExceededException

The operation exceeded the service quota for this resource.

HTTP Status Code: 402

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateDataSource

Creates a DataSource object.

Request Syntax

POST /v1/apis/*apiId*/datasources HTTP/1.1

Content-type: application/json

```
{
  "description": "string",
  "dynamodbConfig": {
    "awsRegion": "string",
    "deltaSyncConfig": {
      "baseTableTTL": number,
      "deltaSyncTableName": "string",
      "deltaSyncTableTTL": number
    },
    "tableName": "string",
    "useCallerCredentials": boolean,
    "versioned": boolean
  },
  "elasticsearchConfig": {
    "awsRegion": "string",
    "endpoint": "string"
  },
  "eventBridgeConfig": {
    "eventBusArn": "string"
  },
  "httpConfig": {
    "authorizationConfig": {
      "authorizationType": "string",
      "awsIamConfig": {
        "signingRegion": "string",
        "signingServiceName": "string"
      }
    },
    "endpoint": "string"
  },
  "lambdaConfig": {
    "lambdaFunctionArn": "string"
  },
  "metricsConfig": "string",
```

```
{
  "name": "string",
  "openSearchServiceConfig": {
    "awsRegion": "string",
    "endpoint": "string"
  },
  "relationalDatabaseConfig": {
    "rdsHttpEndpointConfig": {
      "awsRegion": "string",
      "awsSecretStoreArn": "string",
      "databaseName": "string",
      "dbClusterIdentifier": "string",
      "schema": "string"
    },
    "relationalDatabaseSourceType": "string"
  },
  "serviceRoleArn": "string",
  "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

apild

The API ID for the GraphQL API for the DataSource.

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A description of the DataSource.

Type: String

Required: No

dynamodbConfig

Amazon DynamoDB settings.

Type: [DynamodbDataSourceConfig](#) object

Required: No

[elasticsearchConfig](#)

Amazon OpenSearch Service settings.

As of September 2021, Amazon Elasticsearch service is Amazon OpenSearch Service. This configuration is deprecated. For new data sources, use [CreateDataSource:openSearchServiceConfig](#) to create an OpenSearch data source.

Type: [ElasticsearchDataSourceConfig](#) object

Required: No

[eventBridgeConfig](#)

Amazon EventBridge settings.

Type: [EventBridgeDataSourceConfig](#) object

Required: No

[httpConfig](#)

HTTP endpoint settings.

Type: [HttpDataSourceConfig](#) object

Required: No

[lambdaConfig](#)

AWS Lambda settings.

Type: [LambdaDataSourceConfig](#) object

Required: No

[metricsConfig](#)

Enables or disables enhanced data source metrics for specified data sources. Note that `metricsConfig` won't be used unless the `dataSourceLevelMetricsBehavior` value is set to `PER_DATA_SOURCE_METRICS`. If the `dataSourceLevelMetricsBehavior` is set to `FULL_REQUEST_DATA_SOURCE_METRICS` instead, `metricsConfig` will be ignored. However, you can still set its value.

metricsConfig can be ENABLED or DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

name

A user-supplied name for the DataSource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [_A-Za-z][_0-9A-Za-z]*

Required: Yes

openSearchServiceConfig

Amazon OpenSearch Service settings.

Type: [OpenSearchServiceDataSourceConfig](#) object

Required: No

relationalDatabaseConfig

Relational database settings.

Type: [RelationalDatabaseDataSourceConfig](#) object

Required: No

serviceRoleArn

The AWS Identity and Access Management (IAM) service role Amazon Resource Name (ARN) for the data source. The system assumes this role when accessing the data source.

Type: String

Required: No

type

The type of the DataSource.

Type: String

Valid Values: AWS_LAMBDA | AMAZON_DYNAMODB | AMAZON_ELASTICSEARCH | NONE | HTTP | RELATIONAL_DATABASE | AMAZON_OPENSEARCH_SERVICE | AMAZON_EVENTBRIDGE | AMAZON_BEDROCK_RUNTIME

Required: Yes

Response Syntax

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

{
  "dataSource": {
    "dataSourceArn": "string",
    "description": "string",
    "dynamodbConfig": {
      "awsRegion": "string",
      "deltaSyncConfig": {
        "baseTableTTL": number,
        "deltaSyncTableName": "string",
        "deltaSyncTableTTL": number
      },
      "tableName": "string",
      "useCallerCredentials": boolean,
      "versioned": boolean
    },
    "elasticsearchConfig": {
      "awsRegion": "string",
      "endpoint": "string"
    },
    "eventBridgeConfig": {
      "eventBusArn": "string"
    },
    "httpConfig": {
      "authorizationConfig": {
        "authorizationType": "string",
        "awsIamConfig": {
          "signingRegion": "string",
          "signingServiceName": "string"
        }
      }
    }
  }
}
```

```

    },
    "endpoint": "string"
  },
  "lambdaConfig": {
    "lambdaFunctionArn": "string"
  },
  "metricsConfig": "string",
  "name": "string",
  "openSearchServiceConfig": {
    "awsRegion": "string",
    "endpoint": "string"
  },
  "relationalDatabaseConfig": {
    "rdsHttpEndpointConfig": {
      "awsRegion": "string",
      "awsSecretStoreArn": "string",
      "databaseName": "string",
      "dbClusterIdentifier": "string",
      "schema": "string"
    },
    "relationalDatabaseSourceType": "string"
  },
  "serviceRoleArn": "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.

dataSource

The DataSource object.

Type: [DataSource](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateDomainName

Creates a custom DomainName object.

Request Syntax

```
POST /v1/domainnames HTTP/1.1
Content-type: application/json
```

```
{
  "certificateArn": "string",
  "description": "string",
  "domainName": "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.

certificateArn

The Amazon Resource Name (ARN) of the certificate. This can be an AWS Certificate Manager (ACM) certificate or an AWS Identity and Access Management (IAM) server certificate.

Type: String

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

Pattern: `^arn:[a-z-]*:(acm|iam):[a-z0-9-]*:\d{12}:(certificate|server-certificate)/[0-9A-Za-z_/-]*$`

Required: Yes

description

A description of the DomainName.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^.*$`

Required: No

domainName

The domain name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\\w\\d-]*\\.)?([\\w\\d-]+\\.)+[\\w\\d-]+$`

Required: Yes

tags

A map with keys of TagKey objects and values of TagValue objects.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[\\s\\w+ -=\\. :/@]*$`

Required: No

Response Syntax

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

{
  "domainNameConfig": {
```

```
"appsyncDomainName": "string",
"certificateArn": "string",
"description": "string",
"domainName": "string",
"domainNameArn": "string",
"hostedZoneId": "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.

domainNameConfig

The configuration for the DomainName.

Type: [DomainNameConfig](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateFunction

Creates a Function object.

A function is a reusable entity. You can use multiple functions to compose the resolver logic.

Request Syntax

```
POST /v1/apis/apiId/functions HTTP/1.1
```

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

```
{
  "code": "string",
  "dataSourceName": "string",
  "description": "string",
  "functionVersion": "string",
  "maxBatchSize": number,
  "name": "string",
  "requestMappingTemplate": "string",
  "responseMappingTemplate": "string",
  "runtime": {
    "name": "string",
    "runtimeVersion": "string"
  },
  "syncConfig": {
    "conflictDetection": "string",
    "conflictHandler": "string",
    "lambdaConflictHandlerConfig": {
      "lambdaConflictHandlerArn": "string"
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The GraphQL API ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

code

The function code that contains the request and response functions. When code is used, the runtime is required. The runtime value must be APPSYNC_JS.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

dataSourceName

The Function DataSource name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [_A-Za-z][_0-9A-Za-z]*

Required: Yes

description

The Function description.

Type: String

Required: No

functionVersion

The version of the request mapping template. Currently, the supported value is 2018-05-29. Note that when using VTL and mapping templates, the functionVersion is required.

Type: String

Required: No

maxBatchSize

The maximum batching size for a resolver.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2000.

Required: No

name

The Function name. The function name does not have to be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

requestMappingTemplate

The Function request mapping template. Functions support only the 2018-05-29 version of the request mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^\.*$`

Required: No

responseMappingTemplate

The Function response mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^\.*$`

Required: No

runtime

Describes a runtime used by an AWS AppSync pipeline resolver or AWS AppSync function. Specifies the name and version of the runtime to use. Note that if a runtime is specified, code must also be specified.

Type: [AppSyncRuntime](#) object

Required: No

syncConfig

Describes a Sync configuration for a resolver.

Specifies which Conflict Detection strategy and Resolution strategy to use when the resolver is invoked.

Type: [SyncConfig](#) object

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "functionConfiguration": {
    "code": "string",
    "dataSourceName": "string",
    "description": "string",
    "functionArn": "string",
    "functionId": "string",
    "functionVersion": "string",
    "maxBatchSize": number,
    "name": "string",
    "requestMappingTemplate": "string",
    "responseMappingTemplate": "string",
    "runtime": {
      "name": "string",
      "runtimeVersion": "string"
    }
  }
}
```

```
    },
    "syncConfig": {
      "conflictDetection": "string",
      "conflictHandler": "string",
      "lambdaConflictHandlerConfig": {
        "lambdaConflictHandlerArn": "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.

functionConfiguration

The `Function` object.

Type: [FunctionConfiguration](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateGraphQLApi

Creates a GraphQLApi object.

Request Syntax

POST /v1/apis HTTP/1.1

Content-type: application/json

```
{
  "additionalAuthenticationProviders": [
    {
      "authenticationType": "string",
      "lambdaAuthorizerConfig": {
        "authorizerResultTtlInSeconds": number,
        "authorizerUri": "string",
        "identityValidationExpression": "string"
      },
      "openIDConnectConfig": {
        "authTTL": number,
        "clientId": "string",
        "iatTTL": number,
        "issuer": "string"
      },
      "userPoolConfig": {
        "appIdClientRegex": "string",
        "awsRegion": "string",
        "userPoolId": "string"
      }
    }
  ],
  "apiType": "string",
  "authenticationType": "string",
  "enhancedMetricsConfig": {
    "dataSourceLevelMetricsBehavior": "string",
    "operationLevelMetricsConfig": "string",
    "resolverLevelMetricsBehavior": "string"
  },
  "introspectionConfig": "string",
  "lambdaAuthorizerConfig": {
    "authorizerResultTtlInSeconds": number,
    "authorizerUri": "string",
    "identityValidationExpression": "string"
  }
}
```

```

},
"logConfig": {
  "cloudWatchLogsRoleArn": "string",
  "excludeVerboseContent": boolean,
  "fieldLogLevel": "string"
},
"mergedApiExecutionRoleArn": "string",
"name": "string",
"openIDConnectConfig": {
  "authTTL": number,
  "clientId": "string",
  "iatTTL": number,
  "issuer": "string"
},
"ownerContact": "string",
"queryDepthLimit": number,
"resolverCountLimit": number,
"tags": {
  "string" : "string"
},
"userPoolConfig": {
  "appIdClientRegex": "string",
  "awsRegion": "string",
  "defaultAction": "string",
  "userPoolId": "string"
},
"visibility": "string",
"xrayEnabled": boolean
}

```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalAuthenticationProviders

A list of additional authentication providers for the GraphQLApi API.

Type: Array of [AdditionalAuthenticationProvider](#) objects

Required: No

[apiType](#)

The value that indicates whether the GraphQL API is a standard API (GRAPHQL) or merged API (MERGED).

Type: String

Valid Values: GRAPHQL | MERGED

Required: No

[authenticationType](#)

The authentication type: API key, AWS Identity and Access Management (IAM), OpenID Connect (OIDC), Amazon Cognito user pools, or AWS Lambda.

Type: String

Valid Values: API_KEY | AWS_IAM | AMAZON_COGNITO_USER_POOLS | OPENID_CONNECT
| AWS_LAMBDA

Required: Yes

[enhancedMetricsConfig](#)

The enhancedMetricsConfig object.

Type: [EnhancedMetricsConfig](#) object

Required: No

[introspectionConfig](#)

Sets the value of the GraphQL API to enable (ENABLED) or disable (DISABLED) introspection. If no value is provided, the introspection configuration will be set to ENABLED by default. This field will produce an error if the operation attempts to use the introspection feature while this field is disabled.

For more information about introspection, see [GraphQL introspection](#).

Type: String

Valid Values: ENABLED | DISABLED

Required: No

lambdaAuthorizerConfig

Configuration for AWS Lambda function authorization.

Type: [LambdaAuthorizerConfig](#) object

Required: No

logConfig

The Amazon CloudWatch Logs configuration.

Type: [LogConfig](#) object

Required: No

mergedApiExecutionRoleArn

The Identity and Access Management service role ARN for a merged API. The AppSync service assumes this role on behalf of the Merged API to validate access to source APIs at runtime and to prompt the AUTO_MERGE to update the merged API endpoint with the source API changes automatically.

Type: String

Required: No

name

A user-supplied name for the GraphQLApi.

Type: String

Required: Yes

openIDConnectConfig

The OIDC configuration.

Type: [OpenIDConnectConfig](#) object

Required: No

ownerContact

The owner contact information for an API resource.

This field accepts any string input with a length of 0 - 256 characters.

Type: String

Required: No

queryDepthLimit

The maximum depth a query can have in a single request. Depth refers to the amount of nested levels allowed in the body of query. The default value is 0 (or unspecified), which indicates there's no depth limit. If you set a limit, it can be between 1 and 75 nested levels. This field will produce a limit error if the operation falls out of bounds.

Note that fields can still be set to nullable or non-nullable. If a non-nullable field produces an error, the error will be thrown upwards to the first nullable field available.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 75.

Required: No

resolverCountLimit

The maximum number of resolvers that can be invoked in a single request. The default value is 0 (or unspecified), which will set the limit to 10000. When specified, the limit value can be between 1 and 10000. This field will produce a limit error if the operation falls out of bounds.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

tags

A TagMap object.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[\\s\\w+-.\\.:/*]*$`

Required: No

userPoolConfig

The Amazon Cognito user pool configuration.

Type: [UserPoolConfig](#) object

Required: No

visibility

Sets the value of the GraphQL API to public (GLOBAL) or private (PRIVATE). If no value is provided, the visibility will be set to GLOBAL by default. This value cannot be changed once the API has been created.

Type: String

Valid Values: GLOBAL | PRIVATE

Required: No

xrayEnabled

A flag indicating whether to use AWS X-Ray tracing for the GraphQLApi.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

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

```
{
  "graphqlApi": {
    "additionalAuthenticationProviders": [
      {
        "authenticationType": "string",
        "lambdaAuthorizerConfig": {
          "authorizerResultTtlInSeconds": number,
          "authorizerUri": "string",
          "identityValidationExpression": "string"
        }
      }
    ]
  }
}
```

```

    "openIDConnectConfig": {
      "authTTL": number,
      "clientId": "string",
      "iatTTL": number,
      "issuer": "string"
    },
    "userPoolConfig": {
      "appIdClientRegex": "string",
      "awsRegion": "string",
      "userPoolId": "string"
    }
  },
  "apiId": "string",
  "apiType": "string",
  "arn": "string",
  "authenticationType": "string",
  "dns": {
    "string": "string"
  },
  "enhancedMetricsConfig": {
    "dataSourceLevelMetricsBehavior": "string",
    "operationLevelMetricsConfig": "string",
    "resolverLevelMetricsBehavior": "string"
  },
  "introspectionConfig": "string",
  "lambdaAuthorizerConfig": {
    "authorizerResultTtlInSeconds": number,
    "authorizerUri": "string",
    "identityValidationExpression": "string"
  },
  "logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "excludeVerboseContent": boolean,
    "fieldLogLevel": "string"
  },
  "mergedApiExecutionRoleArn": "string",
  "name": "string",
  "openIDConnectConfig": {
    "authTTL": number,
    "clientId": "string",
    "iatTTL": number,
    "issuer": "string"
  },

```

```
"owner": "string",
"ownerContact": "string",
"queryDepthLimit": number,
"resolverCountLimit": number,
"tags": {
  "string" : "string"
},
"uris": {
  "string" : "string"
},
"userPoolConfig": {
  "appIdClientRegex": "string",
  "awsRegion": "string",
  "defaultAction": "string",
  "userPoolId": "string"
},
"visibility": "string",
"wafWebAclArn": "string",
"xrayEnabled": 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.

[graphqlApi](#)

The GraphQLApi.

Type: [GraphQLApi](#) object

Errors

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

ApiLimitExceededException

The GraphQL API exceeded a limit. Try your request again.

HTTP Status Code: 400

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateResolver

Creates a Resolver object.

A resolver converts incoming requests into a format that a data source can understand, and converts the data source's responses into GraphQL.

Request Syntax

```
POST /v1/apis/apiId/types/typeName/resolvers HTTP/1.1
```

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

```
{
  "cachingConfig": {
    "cachingKeys": [ "string" ],
    "ttl": number
  },
  "code": "string",
  "dataSourceName": "string",
  "fieldName": "string",
  "kind": "string",
  "maxBatchSize": number,
  "metricsConfig": "string",
  "pipelineConfig": {
    "functions": [ "string" ]
  },
  "requestMappingTemplate": "string",
  "responseMappingTemplate": "string",
  "runtime": {
    "name": "string",
    "runtimeVersion": "string"
  },
  "syncConfig": {
    "conflictDetection": "string",
    "conflictHandler": "string",
    "lambdaConflictHandlerConfig": {
      "lambdaConflictHandlerArn": "string"
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[apId](#)

The ID for the GraphQL API for which the resolver is being created.

Required: Yes

[typeName](#)

The name of the Type.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[cachingConfig](#)

The caching configuration for the resolver.

Type: [CachingConfig](#) object

Required: No

[code](#)

The `resolver` code that contains the request and response functions. When `code` is used, the `runtime` is required. The `runtime` value must be `APPSYNC_JS`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

dataSourceName

The name of the data source for which the resolver is being created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: No

fieldName

The name of the field to attach the resolver to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

kind

The resolver type.

- **UNIT**: A UNIT resolver type. A UNIT resolver is the default resolver type. You can use a UNIT resolver to run a GraphQL query against a single data source.
- **PIPELINE**: A PIPELINE resolver type. You can use a PIPELINE resolver to invoke a series of Function objects in a serial manner. You can use a pipeline resolver to run a GraphQL query against multiple data sources.

Type: String

Valid Values: UNIT | PIPELINE

Required: No

maxBatchSize

The maximum batching size for a resolver.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2000.

Required: No

[metricsConfig](#)

Enables or disables enhanced resolver metrics for specified resolvers. Note that `metricsConfig` won't be used unless the `resolverLevelMetricsBehavior` value is set to `PER_RESOLVER_METRICS`. If the `resolverLevelMetricsBehavior` is set to `FULL_REQUEST_RESOLVER_METRICS` instead, `metricsConfig` will be ignored. However, you can still set its value.

`metricsConfig` can be `ENABLED` or `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

[pipelineConfig](#)

The `PipelineConfig`.

Type: [PipelineConfig](#) object

Required: No

[requestMappingTemplate](#)

The mapping template to use for requests.

A resolver uses a request mapping template to convert a GraphQL expression into a format that a data source can understand. Mapping templates are written in Apache Velocity Template Language (VTL).

VTL request mapping templates are optional when using an AWS Lambda data source. For all other data sources, VTL request and response mapping templates are required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^\.*$`

Required: No

[responseMappingTemplate](#)

The mapping template to use for responses from the data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^\.*$`

Required: No

[runtime](#)

Describes a runtime used by an AWS AppSync pipeline resolver or AWS AppSync function. Specifies the name and version of the runtime to use. Note that if a runtime is specified, code must also be specified.

Type: [AppSyncRuntime](#) object

Required: No

[syncConfig](#)

The SyncConfig for a resolver attached to a versioned data source.

Type: [SyncConfig](#) object

Required: No

Response Syntax

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

{
  "resolver": {
    "cachingConfig": {
      "cachingKeys": [ "string" ],
      "ttl": number
    },
```

```

    "code": "string",
    "dataSourceName": "string",
    "fieldName": "string",
    "kind": "string",
    "maxBatchSize": number,
    "metricsConfig": "string",
    "pipelineConfig": {
      "functions": [ "string" ]
    },
    "requestMappingTemplate": "string",
    "resolverArn": "string",
    "responseMappingTemplate": "string",
    "runtime": {
      "name": "string",
      "runtimeVersion": "string"
    },
    "syncConfig": {
      "conflictDetection": "string",
      "conflictHandler": "string",
      "lambdaConflictHandlerConfig": {
        "lambdaConflictHandlerArn": "string"
      }
    },
    "typeName": "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.

resolver

The Resolver object.

Type: [Resolver](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateType

Creates a Type object.

Request Syntax

```
POST /v1/apis/apiId/types HTTP/1.1
Content-type: application/json

{
  "definition": "string",
  "format": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

definition

The type definition, in GraphQL Schema Definition Language (SDL) format.

For more information, see the [GraphQL SDL documentation](#).

Type: String

Required: Yes

format

The type format: SDL or JSON.

Type: String

Valid Values: SDL | JSON

Required: Yes

Response Syntax

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

{
  "type": {
    "arn": "string",
    "definition": "string",
    "description": "string",
    "format": "string",
    "name": "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.

type

The Type object.

Type: [Type](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteApi

Deletes an Api object

Request Syntax

```
DELETE /v2/apis/apiId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The Api ID.

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](#).

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteApiCache

Deletes an ApiCache object.

Request Syntax

```
DELETE /v1/apis/apiId/ApiCaches HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

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](#).

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteApiKey

Deletes an API key.

Request Syntax

```
DELETE /v1/apis/apiId/apikeys/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

id

The ID for the API key.

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](#).

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteChannelNamespace

Deletes a ChannelNamespace.

Request Syntax

```
DELETE /v2/apis/apiId/channelNamespaces/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The ID of the Api associated with the ChannelNamespace.

Required: Yes

name

The name of the ChannelNamespace.

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

Pattern: ([A-Za-z0-9](?:[A-Za-z0-9\-_]{0,48}[A-Za-z0-9])?)

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](#).

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteDataSource

Deletes a DataSource object.

Request Syntax

```
DELETE /v1/apis/apiId/datasources/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

name

The name of the data source.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [_A-Za-z][_0-9A-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](#).

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteDomainName

Deletes a custom DomainName object.

Request Syntax

```
DELETE /v1/domainnames/domainName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainName

The domain name.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\w\d-]*\.)?([\w\d-]+\.)+[\w\d-]+$`

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](#).

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteFunction

Deletes a Function.

Request Syntax

```
DELETE /v1/apis/apiId/functions/functionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The GraphQL API ID.

Required: Yes

functionId

The Function ID.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [_A-Za-z][_0-9A-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](#).

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteGraphqlApi

Deletes a GraphqlApi object.

Request Syntax

```
DELETE /v1/apis/apiId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

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](#).

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteResolver

Deletes a Resolver object.

Request Syntax

```
DELETE /v1/apis/apiId/types/typeName/resolvers/fieldName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

fieldName

The resolver field name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

typeName

The name of the resolver type.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-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](#).

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteType

Deletes a Type object.

Request Syntax

```
DELETE /v1/apis/apiId/types/typeName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

typeName

The type name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-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](#).

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateApi

Removes an ApiAssociation object from a custom domain.

Request Syntax

```
DELETE /v1/domainnames/domainName/apiassociation HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainName

The domain name.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\w\d-]*\.)?([\w\d-]+\.)+[\w\d-]+$`

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](#).

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateMergedGraphQLApi

Deletes an association between a Merged API and source API using the source API's identifier and the association ID.

Request Syntax

```
DELETE /v1/sourceApis/sourceApiIdentifier/mergedApiAssociations/associationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

associationId

The ID generated by the AppSync service for the source API association.

Required: Yes

sourceApiIdentifier

The identifier of the AppSync Source API. This is generated by the AppSync service. In most cases, source APIs (especially in your account) only require the API ID value or ARN of the source API. However, source APIs from other accounts (cross-account use cases) strictly require the full resource ARN of the source API.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "sourceApiAssociationStatus": "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.

[sourceApiAssociationStatus](#)

The state of the source API association.

Type: String

Valid Values: MERGE_SCHEDULED | MERGE_FAILED | MERGE_SUCCESS |
MERGE_IN_PROGRESS | AUTO_MERGE_SCHEDULE_FAILED | DELETION_SCHEDULED |
DELETION_IN_PROGRESS | DELETION_FAILED

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateSourceGraphQLApi

Deletes an association between a Merged API and source API using the Merged API's identifier and the association ID.

Request Syntax

```
DELETE /v1/mergedApis/mergedApiIdentifier/sourceApiAssociations/associationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

associationId

The ID generated by the AppSync service for the source API association.

Required: Yes

mergedApiIdentifier

The identifier of the AppSync Merged API. This is generated by the AppSync service. In most cases, Merged APIs (especially in your account) only require the API ID value or ARN of the merged API. However, Merged APIs in other accounts (cross-account use cases) strictly require the full resource ARN of the merged API.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "sourceApiAssociationStatus": "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.

[sourceApiAssociationStatus](#)

The state of the source API association.

Type: String

Valid Values: MERGE_SCHEDULED | MERGE_FAILED | MERGE_SUCCESS |
MERGE_IN_PROGRESS | AUTO_MERGE_SCHEDULE_FAILED | DELETION_SCHEDULED |
DELETION_IN_PROGRESS | DELETION_FAILED

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

EvaluateCode

Evaluates the given code and returns the response. The code definition requirements depend on the specified runtime. For APPSYNC_JS runtimes, the code defines the request and response functions. The request function takes the incoming request after a GraphQL operation is parsed and converts it into a request configuration for the selected data source operation. The response function interprets responses from the data source and maps it to the shape of the GraphQL field output type.

Request Syntax

```
POST /v1/dataplane-evaluatecode HTTP/1.1
Content-type: application/json
```

```
{
  "code": "string",
  "context": "string",
  "function": "string",
  "runtime": {
    "name": "string",
    "runtimeVersion": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

code

The code definition to be evaluated. Note that code and runtime are both required for this action. The runtime value must be APPSYNC_JS.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: Yes

context

The map that holds all of the contextual information for your resolver invocation. A context is required for this action.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 28000.

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

Required: Yes

function

The function within the code to be evaluated. If provided, the valid values are request and response.

Type: String

Required: No

runtime

The runtime to be used when evaluating the code. Currently, only the APPSYNC_JS runtime is supported.

Type: [AppSyncRuntime](#) object

Required: Yes

Response Syntax

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

{
  "error": {
    "codeErrors": [
      {
        "errorType": "string",
```

```
    "location": {
      "column": number,
      "line": number,
      "span": number
    },
    "value": "string"
  },
  ],
  "message": "string"
},
"evaluationResult": "string",
"logs": [ "string" ],
"outErrors": "string",
"stash": "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.

error

Contains the payload of the response error.

Type: [EvaluateCodeErrorDetail](#) object

evaluationResult

The result of the evaluation operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 65536.

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

logs

A list of logs that were generated by calls to `util.log.info` and `util.log.error` in the evaluated code.

Type: Array of strings

outErrors

The list of runtime errors that are added to the GraphQL operation response.

Type: String

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

stash

An object available inside each resolver and function handler. A single stash object lives through a single resolver run. Therefore, you can use the stash to pass arbitrary data across request and response handlers and across functions in a pipeline resolver.

Type: String

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

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

EvaluateMappingTemplate

Evaluates a given template and returns the response. The mapping template can be a request or response template.

Request templates take the incoming request after a GraphQL operation is parsed and convert it into a request configuration for the selected data source operation. Response templates interpret responses from the data source and map it to the shape of the GraphQL field output type.

Mapping templates are written in the Apache Velocity Template Language (VTL).

Request Syntax

```
POST /v1/dataplane-evaluatetemplate HTTP/1.1
Content-type: application/json

{
  "context": "string",
  "template": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

context

The map that holds all of the contextual information for your resolver invocation. A context is required for this action.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 28000.

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

Required: Yes

template

The mapping template; this can be a request or response template. A template is required for this action.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 65536.

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

Required: Yes

Response Syntax

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

```
{
  "error": {
    "message": "string"
  },
  "evaluationResult": "string",
  "logs": [ "string" ],
  "outErrors": "string",
  "stash": "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.

error

The `ErrorDetail` object.

Type: [ErrorDetail](#) object

evaluationResult

The mapping template; this can be a request or response template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 65536.

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

logs

A list of logs that were generated by calls to `util.log.info` and `util.log.error` in the evaluated code.

Type: Array of strings

outErrors

The list of runtime errors that are added to the GraphQL operation response.

Type: String

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

stash

An object available inside each resolver and function handler. A single `stash` object lives through a single resolver run. Therefore, you can use the `stash` to pass arbitrary data across request and response handlers and across functions in a pipeline resolver.

Type: String

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

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

FlushApiCache

Flushes an ApiCache object.

Request Syntax

```
DELETE /v1/apis/apiId/FlushCache HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

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](#).

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetApi

Retrieves an `Api` object.

Request Syntax

```
GET /v2/apis/apiId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The `Api` ID.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "api": {
    "apiArn": "string",
    "apiId": "string",
    "created": number,
    "dns": {
      "string" : "string"
    },
    "eventConfig": {
      "authProviders": [
        {
          "authType": "string",
          "cognitoConfig": {
            "appIdClientRegex": "string",
```

```

        "awsRegion": "string",
        "userPoolId": "string"
    },
    "lambdaAuthorizerConfig": {
        "authorizerResultTtlInSeconds": number,
        "authorizerUri": "string",
        "identityValidationExpression": "string"
    },
    "openIDConnectConfig": {
        "authTTL": number,
        "clientId": "string",
        "iatTTL": number,
        "issuer": "string"
    }
},
"connectionAuthModes": [
    {
        "authType": "string"
    }
],
"defaultPublishAuthModes": [
    {
        "authType": "string"
    }
],
"defaultSubscribeAuthModes": [
    {
        "authType": "string"
    }
],
"logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "logLevel": "string"
}
},
"name": "string",
"ownerContact": "string",
"tags": {
    "string" : "string"
},
"wafWebAclArn": "string",
"xrayEnabled": 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.

[api](#)

The `Api` object.

Type: [Api](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetApiAssociation

Retrieves an ApiAssociation object.

Request Syntax

```
GET /v1/domainnames/domainName/apiassociation HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainName

The domain name.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\\w\\d-]*\\.)?([\\w\\d-]+\\.)+[\\w\\d-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "apiAssociation": {
    "apiId": "string",
    "associationStatus": "string",
    "deploymentDetail": "string",
    "domainName": "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.

[apiAssociation](#)

The `ApiAssociation` object.

Type: [ApiAssociation](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetApiCache

Retrieves an ApiCache object.

Request Syntax

```
GET /v1/apis/apiId/ApiCaches HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "apiCache": {
    "apiCachingBehavior": "string",
    "atRestEncryptionEnabled": boolean,
    "healthMetricsConfig": "string",
    "status": "string",
    "transitEncryptionEnabled": boolean,
    "ttl": number,
    "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.

apiCache

The ApiCache object.

Type: [ApiCache](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetChannelNamespace

Retrieves the channel namespace for a specified Api.

Request Syntax

```
GET /v2/apis/apiId/channelNamespaces/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The Api ID.

Required: Yes

name

The name of the ChannelNamespace.

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

Pattern: ([A-Za-z0-9](?:[A-Za-z0-9\-_]{0,48}[A-Za-z0-9])?)

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "channelNamespace": {
    "apiId": "string",
    "channelNamespaceArn": "string",
```

```

    "codeHandlers": "string",
    "created": number,
    "handlerConfigs": {
      "onPublish": {
        "behavior": "string",
        "integration": {
          "dataSourceName": "string",
          "lambdaConfig": {
            "invokeType": "string"
          }
        }
      },
      "onSubscribe": {
        "behavior": "string",
        "integration": {
          "dataSourceName": "string",
          "lambdaConfig": {
            "invokeType": "string"
          }
        }
      }
    },
    "lastModified": number,
    "name": "string",
    "publishAuthModes": [
      {
        "authType": "string"
      }
    ],
    "subscribeAuthModes": [
      {
        "authType": "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.

channelNamespace

The ChannelNamespace object.

Type: [ChannelNamespace](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetDataSource

Retrieves a DataSource object.

Request Syntax

```
GET /v1/apis/apiId/datasources/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

name

The name of the data source.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_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

{
  "dataSource": {
    "dataSourceArn": "string",
    "description": "string",
    "dynamodbConfig": {
```

```
"awsRegion": "string",
"deltaSyncConfig": {
  "baseTableTTL": number,
  "deltaSyncTableName": "string",
  "deltaSyncTableTTL": number
},
"tableName": "string",
"useCallerCredentials": boolean,
"versioned": boolean
},
"elasticsearchConfig": {
  "awsRegion": "string",
  "endpoint": "string"
},
"eventBridgeConfig": {
  "eventBusArn": "string"
},
"httpConfig": {
  "authorizationConfig": {
    "authorizationType": "string",
    "awsIamConfig": {
      "signingRegion": "string",
      "signingServiceName": "string"
    }
  },
  "endpoint": "string"
},
"lambdaConfig": {
  "lambdaFunctionArn": "string"
},
"metricsConfig": "string",
"name": "string",
"openSearchServiceConfig": {
  "awsRegion": "string",
  "endpoint": "string"
},
"relationalDatabaseConfig": {
  "rdsHttpEndpointConfig": {
    "awsRegion": "string",
    "awsSecretStoreArn": "string",
    "databaseName": "string",
    "dbClusterIdentifier": "string",
    "schema": "string"
  }
},
```

```
    "relationalDatabaseSourceType": "string"  
  },  
  "serviceRoleArn": "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.

[dataSource](#)

The DataSource object.

Type: [DataSource](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetDataSourceIntrospection

Retrieves the record of an existing introspection. If the retrieval is successful, the result of the introspection will also be returned. If the retrieval fails the operation, an error message will be returned instead.

Request Syntax

```
GET /v1/datasources/introspections/introspectionId?  
includeModelsSDL=includeModelsSDL&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

includeModelsSDL

A boolean flag that determines whether SDL should be generated for introspected types. If set to `true`, each model will contain an `sdl` property that contains the SDL for that type. The SDL only contains the type data and no additional metadata or directives.

introspectionId

The introspection ID. Each introspection contains a unique ID that can be used to reference the introspection record.

Required: Yes

maxResults

The maximum number of introspected types that will be returned in a single response.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

Determines the number of types to be returned in a single response before paginating. This value is typically taken from `nextToken` value from the previous response.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "introspectionId": "string",
  "introspectionResult": {
    "models": [
      {
        "fields": [
          {
            "length": number,
            "name": "string",
            "type": {
              "kind": "string",
              "name": "string",
              "type": "DataSourceIntrospectionModelFieldType",
              "values": [ "string" ]
            }
          }
        ],
        "indexes": [
          {
            "fields": [ "string" ],
            "name": "string"
          }
        ],
        "name": "string",
        "primaryKey": {
          "fields": [ "string" ],
          "name": "string"
        },
        "sdl": "string"
      }
    ],
    "nextToken": "string",
    "introspectionStatus": "string",
```

```
"introspectionStatusDetail": "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.

introspectionId

The introspection ID. Each introspection contains a unique ID that can be used to reference the introspection record.

Type: String

introspectionResult

The DataSourceIntrospectionResult object data.

Type: [DataSourceIntrospectionResult](#) object

introspectionStatus

The status of the introspection during retrieval. By default, when a new introspection is being retrieved, the status will be set to PROCESSING. Once the operation has been completed, the status will change to SUCCESS or FAILED depending on how the data was parsed. A FAILED operation will return an error and its details as an introspectionStatusDetail.

Type: String

Valid Values: PROCESSING | FAILED | SUCCESS

introspectionStatusDetail

The error detail field. When a FAILED introspectionStatus is returned, the introspectionStatusDetail will also return the exact error that was generated during the operation.

Type: String

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)

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

GetDomainName

Retrieves a custom DomainName object.

Request Syntax

```
GET /v1/domainnames/domainName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainName

The domain name.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\\w\\d-]*\\.)?([\\w\\d-]+\\.)+[\\w\\d-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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

```
{
  "domainNameConfig": {
    "appsyncDomainName": "string",
    "certificateArn": "string",
    "description": "string",
    "domainName": "string",
    "domainNameArn": "string",
    "hostedZoneId": "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.

[domainNameConfig](#)

The configuration for the DomainName.

Type: [DomainNameConfig](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetFunction

Get a Function.

Request Syntax

```
GET /v1/apis/apiId/functions/functionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The GraphQL API ID.

Required: Yes

functionId

The Function ID.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [_A-Za-z][_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

{
  "functionConfiguration": {
    "code": "string",
    "dataSourceName": "string",
```

```

    "description": "string",
    "functionArn": "string",
    "functionId": "string",
    "functionVersion": "string",
    "maxBatchSize": number,
    "name": "string",
    "requestMappingTemplate": "string",
    "responseMappingTemplate": "string",
    "runtime": {
      "name": "string",
      "runtimeVersion": "string"
    },
    "syncConfig": {
      "conflictDetection": "string",
      "conflictHandler": "string",
      "lambdaConflictHandlerConfig": {
        "lambdaConflictHandlerArn": "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.

functionConfiguration

The `Function` object.

Type: [FunctionConfiguration](#) object

Errors

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

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetGraphQLApi

Retrieves a GraphQLApi object.

Request Syntax

```
GET /v1/apis/apiId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID for the GraphQL API.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "graphqlApi": {
    "additionalAuthenticationProviders": [
      {
        "authenticationType": "string",
        "lambdaAuthorizerConfig": {
          "authorizerResultTtlInSeconds": number,
          "authorizerUri": "string",
          "identityValidationExpression": "string"
        },
        "openIDConnectConfig": {
          "authTTL": number,
          "clientId": "string",
          "iatTTL": number,

```

```

        "issuer": "string"
    },
    "userPoolConfig": {
        "appIdClientRegex": "string",
        "awsRegion": "string",
        "userPoolId": "string"
    }
},
"apiId": "string",
"apiType": "string",
"arn": "string",
"authenticationType": "string",
"dns": {
    "string": "string"
},
"enhancedMetricsConfig": {
    "dataSourceLevelMetricsBehavior": "string",
    "operationLevelMetricsConfig": "string",
    "resolverLevelMetricsBehavior": "string"
},
"introspectionConfig": "string",
"lambdaAuthorizerConfig": {
    "authorizerResultTtlInSeconds": number,
    "authorizerUri": "string",
    "identityValidationExpression": "string"
},
"logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "excludeVerboseContent": boolean,
    "fieldLogLevel": "string"
},
"mergedApiExecutionRoleArn": "string",
"name": "string",
"openIDConnectConfig": {
    "authTTL": number,
    "clientId": "string",
    "iatTTL": number,
    "issuer": "string"
},
"owner": "string",
"ownerContact": "string",
"queryDepthLimit": number,
"resolverCountLimit": number,

```

```
  "tags": {
    "string" : "string"
  },
  "uris": {
    "string" : "string"
  },
  "userPoolConfig": {
    "appIdClientRegex": "string",
    "awsRegion": "string",
    "defaultAction": "string",
    "userPoolId": "string"
  },
  "visibility": "string",
  "wafWebAclArn": "string",
  "xrayEnabled": 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.

[graphqlApi](#)

The GraphQLApi object.

Type: [GraphQLApi](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetGraphQLApiEnvironmentVariables

Retrieves the list of environmental variable key-value pairs associated with an API by its ID value.

Request Syntax

```
GET /v1/apis/apiId/environmentVariables HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The ID of the API from which the environmental variable list will be retrieved.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "environmentVariables": {
    "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.

environmentVariables

The payload containing each environmental variable in the "key" : "value" format.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 2. Maximum length of 64.

Key Pattern: `^[A-Za-z]+\w*$`

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

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetIntrospectionSchema

Retrieves the introspection schema for a GraphQL API.

Request Syntax

```
GET /v1/apis/apiId/schema?format=format&includeDirectives=includeDirectives HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

format

The schema format: SDL or JSON.

Valid Values: SDL | JSON

Required: Yes

includeDirectives

A flag that specifies whether the schema introspection should contain directives.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
schema
```

Response Elements

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

The response returns the following as the HTTP body.

schema

The schema, in GraphQL Schema Definition Language (SDL) format.

For more information, see the [GraphQL SDL documentation](#).

Errors

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

GraphQLSchemaException

The GraphQL schema is not valid.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResolver

Retrieves a Resolver object.

Request Syntax

```
GET /v1/apis/apiId/types/typeName/resolvers/fieldName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

fieldName

The resolver field name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

typeName

The resolver type name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_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

```
{
  "resolver": {
    "cachingConfig": {
      "cachingKeys": [ "string" ],
      "ttl": number
    },
    "code": "string",
    "dataSourceName": "string",
    "fieldName": "string",
    "kind": "string",
    "maxBatchSize": number,
    "metricsConfig": "string",
    "pipelineConfig": {
      "functions": [ "string" ]
    },
    "requestMappingTemplate": "string",
    "resolverArn": "string",
    "responseMappingTemplate": "string",
    "runtime": {
      "name": "string",
      "runtimeVersion": "string"
    },
    "syncConfig": {
      "conflictDetection": "string",
      "conflictHandler": "string",
      "lambdaConflictHandlerConfig": {
        "lambdaConflictHandlerArn": "string"
      }
    },
    "typeName": "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.

[resolver](#)

The Resolver object.

Type: [Resolver](#) object

Errors

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

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetSchemaCreationStatus

Retrieves the current status of a schema creation operation.

Request Syntax

```
GET /v1/apis/apiId/schemacreation HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "details": "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.

details

Detailed information about the status of the schema creation operation.

Type: String

status

The current state of the schema (PROCESSING, FAILED, SUCCESS, or NOT_APPLICABLE). When the schema is in the ACTIVE state, you can add data.

Type: String

Valid Values: PROCESSING | ACTIVE | DELETING | FAILED | SUCCESS | NOT_APPLICABLE

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type CODE_ERROR, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is CODE_ERROR.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetSourceApiAssociation

Retrieves a SourceApiAssociation object.

Request Syntax

```
GET /v1/mergedApis/mergedApiIdentifier/sourceApiAssociations/associationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

associationId

The ID generated by the AppSync service for the source API association.

Required: Yes

mergedApiIdentifier

The identifier of the AppSync Merged API. This is generated by the AppSync service. In most cases, Merged APIs (especially in your account) only require the API ID value or ARN of the merged API. However, Merged APIs in other accounts (cross-account use cases) strictly require the full resource ARN of the merged API.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "sourceApiAssociation": {
    "associationArn": "string",
    "associationId": "string",
```

```
"description": "string",
"lastSuccessfulMergeDate": number,
"mergedApiArn": "string",
"mergedApiId": "string",
"sourceApiArn": "string",
"sourceApiAssociationConfig": {
  "mergeType": "string"
},
"sourceApiAssociationStatus": "string",
"sourceApiAssociationStatusDetail": "string",
"sourceApiId": "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.

sourceApiAssociation

The SourceApiAssociation object data.

Type: [SourceApiAssociation](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetType

Retrieves a Type object.

Request Syntax

```
GET /v1/apis/apiId/types/typeName?format=format HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

format

The type format: SDL or JSON.

Valid Values: SDL | JSON

Required: Yes

typeName

The type name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_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

{
  "type": {
    "arn": "string",
    "definition": "string",
    "description": "string",
    "format": "string",
    "name": "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.

type

The Type object.

Type: [Type](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListApiKeys

Lists the API keys for a given API.

Note

API keys are deleted automatically 60 days after they expire. However, they may still be included in the response until they have actually been deleted. You can safely call `DeleteApiKey` to manually delete a key before it's automatically deleted.

Request Syntax

```
GET /v1/apis/apiId/apikeys?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "apiKeys": [
    {
      "deletes": number,
      "description": "string",
      "expires": number,
      "id": "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.

apiKeys

The ApiKey objects.

Type: Array of [ApiKey](#) objects

nextToken

An identifier to pass in the next request to this operation to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)

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

ListApis

Lists the APIs in your AWS AppSync account.

ListApis returns only the high level API details. For more detailed information about an API, use GetApi.

Request Syntax

```
GET /v2/apis?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "apis": [
    {
```

```

    "apiArn": "string",
    "apiId": "string",
    "created": number,
    "dns": {
      "string" : "string"
    },
    "eventConfig": {
      "authProviders": [
        {
          "authType": "string",
          "cognitoConfig": {
            "appIdClientRegex": "string",
            "awsRegion": "string",
            "userPoolId": "string"
          },
          "lambdaAuthorizerConfig": {
            "authorizerResultTtlInSeconds": number,
            "authorizerUri": "string",
            "identityValidationExpression": "string"
          },
          "openIDConnectConfig": {
            "authTTL": number,
            "clientId": "string",
            "iatTTL": number,
            "issuer": "string"
          }
        }
      ],
      "connectionAuthModes": [
        {
          "authType": "string"
        }
      ],
      "defaultPublishAuthModes": [
        {
          "authType": "string"
        }
      ],
      "defaultSubscribeAuthModes": [
        {
          "authType": "string"
        }
      ],
      "logConfig": {

```

```
        "cloudWatchLogsRoleArn": "string",
        "logLevel": "string"
    },
    "name": "string",
    "ownerContact": "string",
    "tags": {
        "string" : "string"
    },
    "wafWebAclArn": "string",
    "xrayEnabled": boolean
}
],
"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.

[apis](#)

The `Api` objects.

Type: Array of [Api](#) objects

[nextToken](#)

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)

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

ListChannelNamespaces

Lists the channel namespaces for a specified Api.

ListChannelNamespaces returns only high level details for the channel namespace. To retrieve code handlers, use GetChannelNamespace.

Request Syntax

```
GET /v2/apis/apiId/channelNamespaces?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The Api ID.

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "channelNamespaces": [
    {
      "apiId": "string",
      "channelNamespaceArn": "string",
      "codeHandlers": "string",
      "created": number,
      "handlerConfigs": {
        "onPublish": {
          "behavior": "string",
          "integration": {
            "dataSourceName": "string",
            "lambdaConfig": {
              "invokeType": "string"
            }
          }
        }
      },
      "onSubscribe": {
        "behavior": "string",
        "integration": {
          "dataSourceName": "string",
          "lambdaConfig": {
            "invokeType": "string"
          }
        }
      }
    },
    {
      "lastModified": number,
      "name": "string",
      "publishAuthModes": [
        {
          "authType": "string"
        }
      ],
      "subscribeAuthModes": [
        {
          "authType": "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.

[channelNamespaces](#)

The ChannelNamespace objects.

Type: Array of [ChannelNamespace](#) objects

[nextToken](#)

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)

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

ListDataSources

Lists the data sources for a given API.

Request Syntax

```
GET /v1/apis/apiId/datasources?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
"dataSources": [  
  {  
    "dataSourceArn": "string",  
    "description": "string",  
    "dynamodbConfig": {  
      "awsRegion": "string",  
      "deltaSyncConfig": {  
        "baseTableTTL": number,  
        "deltaSyncTableName": "string",  
        "deltaSyncTableTTL": number  
      },  
      "tableName": "string",  
      "useCallerCredentials": boolean,  
      "versioned": boolean  
    },  
    "elasticsearchConfig": {  
      "awsRegion": "string",  
      "endpoint": "string"  
    },  
    "eventBridgeConfig": {  
      "eventBusArn": "string"  
    },  
    "httpConfig": {  
      "authorizationConfig": {  
        "authorizationType": "string",  
        "awsIamConfig": {  
          "signingRegion": "string",  
          "signingServiceName": "string"  
        }  
      },  
      "endpoint": "string"  
    },  
    "lambdaConfig": {  
      "lambdaFunctionArn": "string"  
    },  
    "metricsConfig": "string",  
    "name": "string",  
    "openSearchServiceConfig": {  
      "awsRegion": "string",  
      "endpoint": "string"  
    },  
    "relationalDatabaseConfig": {  
      "rdsHttpEndpointConfig": {  
        "awsRegion": "string",
```

```
        "awsSecretStoreArn": "string",
        "databaseName": "string",
        "dbClusterIdentifier": "string",
        "schema": "string"
    },
    "relationalDatabaseSourceType": "string"
},
"serviceRoleArn": "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.

[dataSources](#)

The DataSource objects.

Type: Array of [DataSource](#) objects

[nextToken](#)

An identifier to pass in the next request to this operation to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDomainNames

Lists multiple custom domain names.

Request Syntax

```
GET /v1/domainnames?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "domainNameConfigs": [
    {
      "appsyncDomainName": "string",
```

```
    "certificateArn": "string",
    "description": "string",
    "domainName": "string",
    "domainNameArn": "string",
    "hostedZoneId": "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.

domainNameConfigs

Lists configurations for multiple domain names.

Type: Array of [DomainNameConfig](#) objects

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListFunctions

List multiple functions.

Request Syntax

```
GET /v1/apis/apiId/functions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The GraphQL API ID.

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
"functions": [  
  {  
    "code": "string",  
    "dataSourceName": "string",  
    "description": "string",  
    "functionArn": "string",  
    "functionId": "string",  
    "functionVersion": "string",  
    "maxBatchSize": number,  
    "name": "string",  
    "requestMappingTemplate": "string",  
    "responseMappingTemplate": "string",  
    "runtime": {  
      "name": "string",  
      "runtimeVersion": "string"  
    },  
    "syncConfig": {  
      "conflictDetection": "string",  
      "conflictHandler": "string",  
      "lambdaConflictHandlerConfig": {  
        "lambdaConflictHandlerArn": "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.

functions

A list of Function objects.

Type: Array of [FunctionConfiguration](#) objects

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListGraphqlApis

Lists your GraphQL APIs.

Request Syntax

```
GET /v1/apis?apiType=apiType&maxResults=maxResults&nextToken=nextToken&owner=owner  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiType

The value that indicates whether the GraphQL API is a standard API (GRAPHQL) or merged API (MERGED).

Valid Values: GRAPHQL | MERGED

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

owner

The account owner of the GraphQL API.

Valid Values: CURRENT_ACCOUNT | OTHER_ACCOUNTS

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "graphqlApis": [
    {
      "additionalAuthenticationProviders": [
        {
          "authenticationType": "string",
          "lambdaAuthorizerConfig": {
            "authorizerResultTtlInSeconds": number,
            "authorizerUri": "string",
            "identityValidationExpression": "string"
          },
          "openIDConnectConfig": {
            "authTTL": number,
            "clientId": "string",
            "iatTTL": number,
            "issuer": "string"
          },
          "userPoolConfig": {
            "appIdClientRegex": "string",
            "awsRegion": "string",
            "userPoolId": "string"
          }
        }
      ],
      "apiId": "string",
      "apiType": "string",
      "arn": "string",
      "authenticationType": "string",
      "dns": {
        "string" : "string"
      },
      "enhancedMetricsConfig": {
        "dataSourceLevelMetricsBehavior": "string",
        "operationLevelMetricsConfig": "string",
        "resolverLevelMetricsBehavior": "string"
      },
      "introspectionConfig": "string",
      "lambdaAuthorizerConfig": {
```

```

    "authorizerResultTtlInSeconds": number,
    "authorizerUri": "string",
    "identityValidationExpression": "string"
  },
  "logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "excludeVerboseContent": boolean,
    "fieldLogLevel": "string"
  },
  "mergedApiExecutionRoleArn": "string",
  "name": "string",
  "openIDConnectConfig": {
    "authTTL": number,
    "clientId": "string",
    "iatTTL": number,
    "issuer": "string"
  },
  "owner": "string",
  "ownerContact": "string",
  "queryDepthLimit": number,
  "resolverCountLimit": number,
  "tags": {
    "string" : "string"
  },
  "uris": {
    "string" : "string"
  },
  "userPoolConfig": {
    "appIdClientRegex": "string",
    "awsRegion": "string",
    "defaultAction": "string",
    "userPoolId": "string"
  },
  "visibility": "string",
  "wafWebAclArn": "string",
  "xrayEnabled": boolean
}
],
"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.

[graphqlApis](#)

The GraphqlApi objects.

Type: Array of [GraphqlApi](#) objects

[nextToken](#)

An identifier to pass in the next request to this operation to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListResolvers

Lists the resolvers for a given API and type.

Request Syntax

```
GET /v1/apis/apiId/types/typeName/resolvers?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

typeName

The type name.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "nextToken": "string",
  "resolvers": [
    {
      "cachingConfig": {
        "cachingKeys": [ "string" ],
        "ttl": number
      },
      "code": "string",
      "dataSourceName": "string",
      "fieldName": "string",
      "kind": "string",
      "maxBatchSize": number,
      "metricsConfig": "string",
      "pipelineConfig": {
        "functions": [ "string" ]
      },
      "requestMappingTemplate": "string",
      "resolverArn": "string",
      "responseMappingTemplate": "string",
      "runtime": {
        "name": "string",
        "runtimeVersion": "string"
      },
      "syncConfig": {
        "conflictDetection": "string",
        "conflictHandler": "string",
        "lambdaConflictHandlerConfig": {
          "lambdaConflictHandlerArn": "string"
        }
      },
      "typeName": "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

An identifier to pass in the next request to this operation to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

resolvers

The Resolver objects.

Type: Array of [Resolver](#) objects

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListResolversByFunction

List the resolvers that are associated with a specific function.

Request Syntax

```
GET /v1/apis/apiId/functions/functionId/resolvers?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

functionId

The function ID.

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "nextToken": "string",
  "resolvers": [
    {
      "cachingConfig": {
        "cachingKeys": [ "string" ],
        "ttl": number
      },
      "code": "string",
      "dataSourceName": "string",
      "fieldName": "string",
      "kind": "string",
      "maxBatchSize": number,
      "metricsConfig": "string",
      "pipelineConfig": {
        "functions": [ "string" ]
      },
      "requestMappingTemplate": "string",
      "resolverArn": "string",
      "responseMappingTemplate": "string",
      "runtime": {
        "name": "string",
        "runtimeVersion": "string"
      },
      "syncConfig": {
        "conflictDetection": "string",
        "conflictHandler": "string",
        "lambdaConflictHandlerConfig": {
          "lambdaConflictHandlerArn": "string"
        }
      },
      "typeName": "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

An identifier that you can use to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

resolvers

The list of resolvers.

Type: Array of [Resolver](#) objects

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListSourceApiAssociations

Lists the SourceApiAssociationSummary data.

Request Syntax

```
GET /v1/apis/apiId/sourceApiAssociations?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "sourceApiAssociationSummaries": [
    {
      "associationArn": "string",
      "associationId": "string",
      "description": "string",
      "mergedApiArn": "string",
      "mergedApiId": "string",
      "sourceApiArn": "string",
      "sourceApiId": "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

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

sourceApiAssociationSummaries

The SourceApiAssociationSummary object data.

Type: Array of [SourceApiAssociationSummary](#) objects

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Lists the tags for a resource.

Request Syntax

```
GET /v1/tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The GraphQLApi Amazon Resource Name (ARN).

Length Constraints: Minimum length of 70. Maximum length of 75.

Pattern: `^arn:aws:appsync:[A-Za-z0-9_/.-]{0,63}:d{12}:apis/[0-9A-Za-z_-]{26}$`

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

A TagMap object.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[\\s\\w+-.\\.:/*]*$`

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTypes

Lists the types for a given API.

Request Syntax

```
GET /v1/apis/apiId/types?format=format&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

format

The type format: SDL or JSON.

Valid Values: SDL | JSON

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

nextToken

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "types": [
    {
      "arn": "string",
      "definition": "string",
      "description": "string",
      "format": "string",
      "name": "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

An identifier to pass in the next request to this operation to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

types

The Type objects.

Type: Array of [Type](#) objects

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTypesByAssociation

Lists Type objects by the source API association ID.

Request Syntax

```
GET /v1/mergedApis/mergedApiIdentifier/sourceApiAssociations/associationId/types?  
format=format&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

associationId

The ID generated by the AppSync service for the source API association.

Required: Yes

format

The format type.

Valid Values: SDL | JSON

Required: Yes

maxResults

The maximum number of results that you want the request to return.

Valid Range: Minimum value of 0. Maximum value of 25.

mergedApiIdentifier

The identifier of the AppSync Merged API. This is generated by the AppSync service. In most cases, Merged APIs (especially in your account) only require the API ID value or ARN of the merged API. However, Merged APIs in other accounts (cross-account use cases) strictly require the full resource ARN of the merged API.

Required: Yes

[nextToken](#)

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "types": [
    {
      "arn": "string",
      "definition": "string",
      "description": "string",
      "format": "string",
      "name": "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](#)

An identifier that was returned from the previous call to this operation, which you can use to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\S]+`

types

The Type objects.

Type: Array of [Type](#) objects

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

PutGraphQLApiEnvironmentVariables

Creates a list of environmental variables in an API by its ID value.

When creating an environmental variable, it must follow the constraints below:

- Both JavaScript and VTL templates support environmental variables.
- Environmental variables are not evaluated before function invocation.
- Environmental variables only support string values.
- Any defined value in an environmental variable is considered a string literal and not expanded.
- Variable evaluations should ideally be performed in the function code.

When creating an environmental variable key-value pair, it must follow the additional constraints below:

- Keys must begin with a letter.
- Keys must be at least two characters long.
- Keys can only contain letters, numbers, and the underscore character (_).
- Values can be up to 512 characters long.
- You can configure up to 50 key-value pairs in a GraphQL API.

You can create a list of environmental variables by adding it to the `environmentVariables` payload as a list in the format `{"key1": "value1", "key2": "value2", ...}`. Note that each call of the `PutGraphQLApiEnvironmentVariables` action will result in the overwriting of the existing environmental variable list of that API. This means the existing environmental variables will be lost. To avoid this, you must include all existing and new environmental variables in the list each time you call this action.

Request Syntax

```
PUT /v1/apis/apiId/environmentVariables HTTP/1.1
Content-type: application/json

{
  "environmentVariables": {
    "string" : "string"
```

```
}  
}
```

URI Request Parameters

The request uses the following URI parameters.

apId

The ID of the API to which the environmental variable list will be written.

Required: Yes

Request Body

The request accepts the following data in JSON format.

environmentVariables

The list of environmental variables to add to the API.

When creating an environmental variable key-value pair, it must follow the additional constraints below:

- Keys must begin with a letter.
- Keys must be at least two characters long.
- Keys can only contain letters, numbers, and the underscore character (_).
- Values can be up to 512 characters long.
- You can configure up to 50 key-value pairs in a GraphQL API.

You can create a list of environmental variables by adding it to the `environmentVariables` payload as a list in the format `{"key1": "value1", "key2": "value2", ...}`. Note that each call of the `PutGraphQLApiEnvironmentVariables` action will result in the overwriting of the existing environmental variable list of that API. This means the existing environmental variables will be lost. To avoid this, you must include all existing and new environmental variables in the list each time you call this action.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 2. Maximum length of 64.

Key Pattern: `^[A-Za-z]+\w*$`

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

Required: Yes

Response Syntax

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

{
  "environmentVariables": {
    "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.

environmentVariables

The payload containing each environmental variable in the "key" : "value" format.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 2. Maximum length of 64.

Key Pattern: `^[A-Za-z]+\w*$`

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

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartDataSourceIntrospection

Creates a new introspection. Returns the introspectionId of the new introspection after its creation.

Request Syntax

```
POST /v1/datasources/introspections HTTP/1.1
Content-type: application/json
```

```
{
  "rdsDataApiConfig": {
    "databaseName": "string",
    "resourceArn": "string",
    "secretArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[rdsDataApiConfig](#)

The rdsDataApiConfig object data.

Type: [RdsDataApiConfig](#) object

Required: No

Response Syntax

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

```
{  
  "introspectionId": "string",  
  "introspectionStatus": "string",  
  "introspectionStatusDetail": "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.

[introspectionId](#)

The introspection ID. Each introspection contains a unique ID that can be used to reference the introspection record.

Type: String

[introspectionStatus](#)

The status of the introspection during creation. By default, when a new introspection has been created, the status will be set to PROCESSING. Once the operation has been completed, the status will change to SUCCESS or FAILED depending on how the data was parsed. A FAILED operation will return an error and its details as an `introspectionStatusDetail`.

Type: String

Valid Values: PROCESSING | FAILED | SUCCESS

[introspectionStatusDetail](#)

The error detail field. When a FAILED `introspectionStatus` is returned, the `introspectionStatusDetail` will also return the exact error that was generated during the operation.

Type: String

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartSchemaCreation

Adds a new schema to your GraphQL API.

This operation is asynchronous. Use [GetSchemaCreationStatus](#) to determine when it has completed.

Request Syntax

```
POST /v1/apis/apiId/schemacreation HTTP/1.1
Content-type: application/json

{
  "definition": blob
}
```

URI Request Parameters

The request uses the following URI parameters.

[apiId](#)

The API ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[definition](#)

The schema definition, in GraphQL schema language format.

Type: Base64-encoded binary data object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

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

```
{  
  "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.

status

The current state of the schema (PROCESSING, FAILED, SUCCESS, or NOT_APPLICABLE). When the schema is in the ACTIVE state, you can add data.

Type: String

Valid Values: PROCESSING | ACTIVE | DELETING | FAILED | SUCCESS | NOT_APPLICABLE

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type CODE_ERROR, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is CODE_ERROR.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartSchemaMerge

Initiates a merge operation. Returns a status that shows the result of the merge operation.

Request Syntax

```
POST /v1/mergedApis/mergedApiIdentifier/sourceApiAssociations/associationId/merge
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[associationId](#)

The ID generated by the AppSync service for the source API association.

Required: Yes

[mergedApiIdentifier](#)

The identifier of the AppSync Merged API. This is generated by the AppSync service. In most cases, Merged APIs (especially in your account) only require the API ID value or ARN of the merged API. However, Merged APIs in other accounts (cross-account use cases) strictly require the full resource ARN of the merged API.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "sourceApiAssociationStatus": "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.

sourceApiAssociationStatus

The state of the source API association.

Type: String

Valid Values: MERGE_SCHEDULED | MERGE_FAILED | MERGE_SUCCESS |
MERGE_IN_PROGRESS | AUTO_MERGE_SCHEDULE_FAILED | DELETION_SCHEDULED |
DELETION_IN_PROGRESS | DELETION_FAILED

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Tags a resource with user-supplied tags.

Request Syntax

```
POST /v1/tags/resourceArn HTTP/1.1
Content-type: application/json
```

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The GraphQLApi Amazon Resource Name (ARN).

Length Constraints: Minimum length of 70. Maximum length of 75.

Pattern: `^arn:aws:appsync:[A-Za-z0-9_/.-]{0,63}:d{12}:apis/[0-9A-Za-z_-]{26}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

A TagMap object.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[\\s\\w+-.\\.:/@]*`

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](#).

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Untags a resource.

Request Syntax

```
DELETE /v1/tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The GraphQLApi Amazon Resource Name (ARN).

Length Constraints: Minimum length of 70. Maximum length of 75.

Pattern: `^arn:aws:appsync:[A-Za-z0-9_/.-]{0,63}:\d{12}:apis/[0-9A-Za-z_-]{26}$`

Required: Yes

tagKeys

A list of TagKey objects.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

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](#).

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateApi

Updates an Api.

Request Syntax

POST /v2/apis/*apiId* HTTP/1.1
Content-type: application/json

```
{
  "eventConfig": {
    "authProviders": [
      {
        "authType": "string",
        "cognitoConfig": {
          "appIdClientRegex": "string",
          "awsRegion": "string",
          "userPoolId": "string"
        },
        "lambdaAuthorizerConfig": {
          "authorizerResultTtlInSeconds": number,
          "authorizerUri": "string",
          "identityValidationExpression": "string"
        },
        "openIDConnectConfig": {
          "authTTL": number,
          "clientId": "string",
          "iatTTL": number,
          "issuer": "string"
        }
      }
    ],
    "connectionAuthModes": [
      {
        "authType": "string"
      }
    ],
    "defaultPublishAuthModes": [
      {
        "authType": "string"
      }
    ],
    "defaultSubscribeAuthModes": [
```

```
{
  "authType": "string"
},
"logConfig": {
  "cloudWatchLogsRoleArn": "string",
  "logLevel": "string"
},
"name": "string",
"ownerContact": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The Api ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

eventConfig

The new event configuration. This includes the default authorization configuration for connecting, publishing, and subscribing to an Event API.

Type: [EventConfig](#) object

Required: No

name

The name of the Api.

Type: String

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

Pattern: [A-Za-z0-9_\- \]+

Required: Yes

ownerContact

The owner contact information for the Api.

Type: String

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "api": {
    "apiArn": "string",
    "apiId": "string",
    "created": number,
    "dns": {
      "string": "string"
    },
    "eventConfig": {
      "authProviders": [
        {
          "authType": "string",
          "cognitoConfig": {
            "appIdClientRegex": "string",
            "awsRegion": "string",
            "userPoolId": "string"
          },
          "lambdaAuthorizerConfig": {
            "authorizerResultTtlInSeconds": number,
            "authorizerUri": "string",
            "identityValidationExpression": "string"
          },
          "openIDConnectConfig": {
            "authTTL": number,
            "clientId": "string",
            "iatTTL": number,
```

```

        "issuer": "string"
      }
    ],
    "connectionAuthModes": [
      {
        "authType": "string"
      }
    ],
    "defaultPublishAuthModes": [
      {
        "authType": "string"
      }
    ],
    "defaultSubscribeAuthModes": [
      {
        "authType": "string"
      }
    ],
    "logConfig": {
      "cloudWatchLogsRoleArn": "string",
      "logLevel": "string"
    }
  },
  "name": "string",
  "ownerContact": "string",
  "tags": {
    "string" : "string"
  },
  "wafWebAclArn": "string",
  "xrayEnabled": 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.

api

The Api object.

Type: [Api](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateApiCache

Updates the cache for the GraphQL API.

Request Syntax

```
POST /v1/apis/apiId/ApiCaches/update HTTP/1.1
Content-type: application/json
```

```
{
  "apiCachingBehavior": "string",
  "healthMetricsConfig": "string",
  "ttl": number,
  "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The GraphQL API ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

apiCachingBehavior

Caching behavior.

- **FULL_REQUEST_CACHING:** All requests from the same user are cached. Individual resolvers are automatically cached. All API calls will try to return responses from the cache.
- **PER_RESOLVER_CACHING:** Individual resolvers that you specify are cached.
- **OPERATION_LEVEL_CACHING:** Full requests are cached together and returned without executing resolvers.

Type: String

Valid Values: FULL_REQUEST_CACHING | PER_RESOLVER_CACHING | OPERATION_LEVEL_CACHING

Required: Yes

healthMetricsConfig

Controls how cache health metrics will be emitted to CloudWatch. Cache health metrics include:

- **NetworkBandwidthOutAllowanceExceeded:** The network packets dropped because the throughput exceeded the aggregated bandwidth limit. This is useful for diagnosing bottlenecks in a cache configuration.
- **EngineCPUUtilization:** The CPU utilization (percentage) allocated to the Redis process. This is useful for diagnosing bottlenecks in a cache configuration.

Metrics will be recorded by API ID. You can set the value to ENABLED or DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

ttl

TTL in seconds for cache entries.

Valid values are 1–3,600 seconds.

Type: Long

Required: Yes

type

The cache instance type. Valid values are

- SMALL
- MEDIUM
- LARGE
- XLARGE

- `LARGE_2X`
- `LARGE_4X`
- `LARGE_8X` (not available in all regions)
- `LARGE_12X`

Historically, instance types were identified by an EC2-style value. As of July 2020, this is deprecated, and the generic identifiers above should be used.

The following legacy instance types are available, but their use is discouraged:

- **T2_SMALL**: A t2.small instance type.
- **T2_MEDIUM**: A t2.medium instance type.
- **R4_LARGE**: A r4.large instance type.
- **R4_XLARGE**: A r4.xlarge instance type.
- **R4_2XLARGE**: A r4.2xlarge instance type.
- **R4_4XLARGE**: A r4.4xlarge instance type.
- **R4_8XLARGE**: A r4.8xlarge instance type.

Type: String

Valid Values: `T2_SMALL` | `T2_MEDIUM` | `R4_LARGE` | `R4_XLARGE` | `R4_2XLARGE` | `R4_4XLARGE` | `R4_8XLARGE` | `SMALL` | `MEDIUM` | `LARGE` | `XLARGE` | `LARGE_2X` | `LARGE_4X` | `LARGE_8X` | `LARGE_12X`

Required: Yes

Response Syntax

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

{
  "apiCache": {
    "apiCachingBehavior": "string",
    "atRestEncryptionEnabled": boolean,
    "healthMetricsConfig": "string",
    "status": "string",
    "transitEncryptionEnabled": boolean,
```

```
    "ttl": number,  
    "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.

[apiCache](#)

The ApiCache object.

Type: [ApiCache](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateApiKey

Updates an API key. You can update the key as long as it's not deleted.

Request Syntax

```
POST /v1/apis/apiId/apikeys/id HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "expires": number
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The ID for the GraphQL API.

Required: Yes

id

The API key ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A description of the purpose of the API key.

Type: String

Required: No

expires

From the update time, the time after which the API key expires. The date is represented as seconds since the epoch. For more information, see [ApiKey](#).

Type: Long

Required: No

Response Syntax

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

{
  "apiKey": {
    "deletes": number,
    "description": "string",
    "expires": 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.

apiKey

The API key.

Type: [ApiKey](#) object

Errors

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

ApiKeyValidityOutOfBoundsException

The API key expiration must be set to a value between 1 and 365 days from creation (for `CreateApiKey`) or from update (for `UpdateApiKey`).

HTTP Status Code: 400

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

LimitExceededException

The request exceeded a limit. Try your request again.

HTTP Status Code: 429

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateChannelNamespace

Updates a ChannelNamespace associated with an Api.

Request Syntax

POST /v2/apis/*apiId*/channelNamespaces/*name* HTTP/1.1
Content-type: application/json

```
{
  "codeHandlers": "string",
  "handlerConfigs": {
    "onPublish": {
      "behavior": "string",
      "integration": {
        "dataSourceName": "string",
        "lambdaConfig": {
          "invokeType": "string"
        }
      }
    },
    "onSubscribe": {
      "behavior": "string",
      "integration": {
        "dataSourceName": "string",
        "lambdaConfig": {
          "invokeType": "string"
        }
      }
    }
  },
  "publishAuthModes": [
    {
      "authType": "string"
    }
  ],
  "subscribeAuthModes": [
    {
      "authType": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[apiId](#)

The Api ID.

Required: Yes

[name](#)

The name of the ChannelNamespace.

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

Pattern: ([A-Za-z0-9](?:[A-Za-z0-9\-_]{0,48}[A-Za-z0-9])?)

Required: Yes

Request Body

The request accepts the following data in JSON format.

[codeHandlers](#)

The event handler functions that run custom business logic to process published events and subscribe requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

[handlerConfigs](#)

The configuration for the OnPublish and OnSubscribe handlers.

Type: [HandlerConfigs](#) object

Required: No

publishAuthModes

The authorization mode to use for publishing messages on the channel namespace. This configuration overrides the default Api authorization configuration.

Type: Array of [AuthMode](#) objects

Required: No

subscribeAuthModes

The authorization mode to use for subscribing to messages on the channel namespace. This configuration overrides the default Api authorization configuration.

Type: Array of [AuthMode](#) objects

Required: No

Response Syntax

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

{
  "channelNamespace": {
    "apiId": "string",
    "channelNamespaceArn": "string",
    "codeHandlers": "string",
    "created": number,
    "handlerConfigs": {
      "onPublish": {
        "behavior": "string",
        "integration": {
          "dataSourceName": "string",
          "lambdaConfig": {
            "invokeType": "string"
          }
        }
      },
      "onSubscribe": {
        "behavior": "string",
        "integration": {
          "dataSourceName": "string",

```

```
        "lambdaConfig": {
            "invokeType": "string"
        }
    },
    "lastModified": number,
    "name": "string",
    "publishAuthModes": [
        {
            "authType": "string"
        }
    ],
    "subscribeAuthModes": [
        {
            "authType": "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.

channelNamespace

The ChannelNamespace object.

Type: [ChannelNamespace](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDataSource

Updates a DataSource object.

Request Syntax

POST /v1/apis/*apiId*/datasources/*name* HTTP/1.1
Content-type: application/json

```
{
  "description": "string",
  "dynamodbConfig": {
    "awsRegion": "string",
    "deltaSyncConfig": {
      "baseTableTTL": number,
      "deltaSyncTableName": "string",
      "deltaSyncTableTTL": number
    },
    "tableName": "string",
    "useCallerCredentials": boolean,
    "versioned": boolean
  },
  "elasticsearchConfig": {
    "awsRegion": "string",
    "endpoint": "string"
  },
  "eventBridgeConfig": {
    "eventBusArn": "string"
  },
  "httpConfig": {
    "authorizationConfig": {
      "authorizationType": "string",
      "awsIamConfig": {
        "signingRegion": "string",
        "signingServiceName": "string"
      }
    },
    "endpoint": "string"
  },
  "lambdaConfig": {
    "lambdaFunctionArn": "string"
  },
  "metricsConfig": "string",
```

```
"openSearchServiceConfig": {
  "awsRegion": "string",
  "endpoint": "string"
},
"relationalDatabaseConfig": {
  "rdsHttpEndpointConfig": {
    "awsRegion": "string",
    "awsSecretStoreArn": "string",
    "databaseName": "string",
    "dbClusterIdentifier": "string",
    "schema": "string"
  },
  "relationalDatabaseSourceType": "string"
},
"serviceRoleArn": "string",
"type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

name

The new name for the data source.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The new description for the data source.

Type: String

Required: No

dynamodbConfig

The new Amazon DynamoDB configuration.

Type: [DynamodbDataSourceConfig](#) object

Required: No

elasticsearchConfig

The new OpenSearch configuration.

As of September 2021, Amazon Elasticsearch service is Amazon OpenSearch Service. This configuration is deprecated. Instead, use [UpdateDataSource:openSearchServiceConfig](#) to update an OpenSearch data source.

Type: [ElasticsearchDataSourceConfig](#) object

Required: No

eventBridgeConfig

The new Amazon EventBridge settings.

Type: [EventBridgeDataSourceConfig](#) object

Required: No

httpConfig

The new HTTP endpoint configuration.

Type: [HttpDataSourceConfig](#) object

Required: No

lambdaConfig

The new AWS Lambda configuration.

Type: [LambdaDataSourceConfig](#) object

Required: No

[metricsConfig](#)

Enables or disables enhanced data source metrics for specified data sources. Note that `metricsConfig` won't be used unless the `dataSourceLevelMetricsBehavior` value is set to `PER_DATA_SOURCE_METRICS`. If the `dataSourceLevelMetricsBehavior` is set to `FULL_REQUEST_DATA_SOURCE_METRICS` instead, `metricsConfig` will be ignored. However, you can still set its value.

`metricsConfig` can be `ENABLED` or `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

[openSearchServiceConfig](#)

The new OpenSearch configuration.

Type: [OpenSearchServiceDataSourceConfig](#) object

Required: No

[relationalDatabaseConfig](#)

The new relational database configuration.

Type: [RelationalDatabaseDataSourceConfig](#) object

Required: No

[serviceRoleArn](#)

The new service role Amazon Resource Name (ARN) for the data source.

Type: String

Required: No

[type](#)

The new data source type.

Type: String

Valid Values: AWS_LAMBDA | AMAZON_DYNAMODB | AMAZON_ELASTICSEARCH | NONE | HTTP | RELATIONAL_DATABASE | AMAZON_OPENSEARCH_SERVICE | AMAZON_EVENTBRIDGE | AMAZON_BEDROCK_RUNTIME

Required: Yes

Response Syntax

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

{
  "dataSource": {
    "dataSourceArn": "string",
    "description": "string",
    "dynamodbConfig": {
      "awsRegion": "string",
      "deltaSyncConfig": {
        "baseTableTTL": number,
        "deltaSyncTableName": "string",
        "deltaSyncTableTTL": number
      },
      "tableName": "string",
      "useCallerCredentials": boolean,
      "versioned": boolean
    },
    "elasticsearchConfig": {
      "awsRegion": "string",
      "endpoint": "string"
    },
    "eventBridgeConfig": {
      "eventBusArn": "string"
    },
    "httpConfig": {
      "authorizationConfig": {
        "authorizationType": "string",
        "awsIamConfig": {
          "signingRegion": "string",
          "signingServiceName": "string"
        }
      }
    }
  }
}
```

```
    },
    "endpoint": "string"
  },
  "lambdaConfig": {
    "lambdaFunctionArn": "string"
  },
  "metricsConfig": "string",
  "name": "string",
  "openSearchServiceConfig": {
    "awsRegion": "string",
    "endpoint": "string"
  },
  "relationalDatabaseConfig": {
    "rdsHttpEndpointConfig": {
      "awsRegion": "string",
      "awsSecretStoreArn": "string",
      "databaseName": "string",
      "dbClusterIdentifier": "string",
      "schema": "string"
    },
    "relationalDatabaseSourceType": "string"
  },
  "serviceRoleArn": "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.

dataSource

The updated DataSource object.

Type: [DataSource](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDomainName

Updates a custom DomainName object.

Request Syntax

```
POST /v1/domainnames/domainName HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

domainName

The domain name.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\\w\\d-]*\\.)?([\\w\\d-]+\\.)+[\\w\\d-]+$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A description of the DomainName.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^.*$`

Required: No

Response Syntax

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

{
  "domainNameConfig": {
    "appsyncDomainName": "string",
    "certificateArn": "string",
    "description": "string",
    "domainName": "string",
    "domainNameArn": "string",
    "hostedZoneId": "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.

domainNameConfig

The configuration for the DomainName.

Type: [DomainNameConfig](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateFunction

Updates a Function object.

Request Syntax

POST /v1/apis/*apiId*/functions/*functionId* HTTP/1.1

Content-type: application/json

```
{
  "code": "string",
  "dataSourceName": "string",
  "description": "string",
  "functionVersion": "string",
  "maxBatchSize": number,
  "name": "string",
  "requestMappingTemplate": "string",
  "responseMappingTemplate": "string",
  "runtime": {
    "name": "string",
    "runtimeVersion": "string"
  },
  "syncConfig": {
    "conflictDetection": "string",
    "conflictHandler": "string",
    "lambdaConflictHandlerConfig": {
      "lambdaConflictHandlerArn": "string"
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The GraphQL API ID.

Required: Yes

functionId

The function ID.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

code

The function code that contains the request and response functions. When code is used, the runtime is required. The runtime value must be APPSYNC_JS.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

dataSourceName

The Function DataSource name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

description

The Function description.

Type: String

Required: No

functionVersion

The version of the request mapping template. Currently, the supported value is 2018-05-29. Note that when using VTL and mapping templates, the `functionVersion` is required.

Type: String

Required: No

maxBatchSize

The maximum batching size for a resolver.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2000.

Required: No

name

The Function name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

requestMappingTemplate

The Function request mapping template. Functions support only the 2018-05-29 version of the request mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^.*$`

Required: No

responseMappingTemplate

The Function request mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^\.*$`

Required: No

runtime

Describes a runtime used by an AWS AppSync pipeline resolver or AWS AppSync function. Specifies the name and version of the runtime to use. Note that if a runtime is specified, code must also be specified.

Type: [AppSyncRuntime](#) object

Required: No

syncConfig

Describes a Sync configuration for a resolver.

Specifies which Conflict Detection strategy and Resolution strategy to use when the resolver is invoked.

Type: [SyncConfig](#) object

Required: No

Response Syntax

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

{
  "functionConfiguration": {
    "code": "string",
    "dataSourceName": "string",
    "description": "string",
    "functionArn": "string",
    "functionId": "string",
    "functionVersion": "string",
    "maxBatchSize": number,
```

```
"name": "string",
"requestMappingTemplate": "string",
"responseMappingTemplate": "string",
"runtime": {
  "name": "string",
  "runtimeVersion": "string"
},
"syncConfig": {
  "conflictDetection": "string",
  "conflictHandler": "string",
  "lambdaConflictHandlerConfig": {
    "lambdaConflictHandlerArn": "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.

functionConfiguration

The Function object.

Type: [FunctionConfiguration](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateGraphQLApi

Updates a GraphQLApi object.

Request Syntax

POST /v1/apis/*apiId* HTTP/1.1
Content-type: application/json

```
{
  "additionalAuthenticationProviders": [
    {
      "authenticationType": "string",
      "lambdaAuthorizerConfig": {
        "authorizerResultTtlInSeconds": number,
        "authorizerUri": "string",
        "identityValidationExpression": "string"
      },
      "openIDConnectConfig": {
        "authTTL": number,
        "clientId": "string",
        "iatTTL": number,
        "issuer": "string"
      },
      "userPoolConfig": {
        "appIdClientRegex": "string",
        "awsRegion": "string",
        "userPoolId": "string"
      }
    }
  ],
  "authenticationType": "string",
  "enhancedMetricsConfig": {
    "dataSourceLevelMetricsBehavior": "string",
    "operationLevelMetricsConfig": "string",
    "resolverLevelMetricsBehavior": "string"
  },
  "introspectionConfig": "string",
  "lambdaAuthorizerConfig": {
    "authorizerResultTtlInSeconds": number,
    "authorizerUri": "string",
    "identityValidationExpression": "string"
  },
}
```

```
{
  "logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "excludeVerboseContent": boolean,
    "fieldLogLevel": "string"
  },
  "mergedApiExecutionRoleArn": "string",
  "name": "string",
  "openIDConnectConfig": {
    "authTTL": number,
    "clientId": "string",
    "iatTTL": number,
    "issuer": "string"
  },
  "ownerContact": "string",
  "queryDepthLimit": number,
  "resolverCountLimit": number,
  "userPoolConfig": {
    "appIdClientRegex": "string",
    "awsRegion": "string",
    "defaultAction": "string",
    "userPoolId": "string"
  },
  "xrayEnabled": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

apild

The API ID.

Required: Yes

Request Body

The request accepts the following data in JSON format.

additionalAuthenticationProviders

A list of additional authentication providers for the GraphQLApi API.

Type: Array of [AdditionalAuthProvider](#) objects

Required: No

[authenticationType](#)

The new authentication type for the GraphQLApi object.

Type: String

Valid Values: API_KEY | AWS_IAM | AMAZON_COGNITO_USER_POOLS | OPENID_CONNECT
| AWS_LAMBDA

Required: Yes

[enhancedMetricsConfig](#)

The enhancedMetricsConfig object.

Type: [EnhancedMetricsConfig](#) object

Required: No

[introspectionConfig](#)

Sets the value of the GraphQL API to enable (ENABLED) or disable (DISABLED) introspection. If no value is provided, the introspection configuration will be set to ENABLED by default. This field will produce an error if the operation attempts to use the introspection feature while this field is disabled.

For more information about introspection, see [GraphQL introspection](#).

Type: String

Valid Values: ENABLED | DISABLED

Required: No

[lambdaAuthorizerConfig](#)

Configuration for Lambda function authorization.

Type: [LambdaAuthorizerConfig](#) object

Required: No

logConfig

The Amazon CloudWatch Logs configuration for the `GraphQLApi` object.

Type: [LogConfig](#) object

Required: No

mergedApiExecutionRoleArn

The Identity and Access Management service role ARN for a merged API. The AppSync service assumes this role on behalf of the Merged API to validate access to source APIs at runtime and to prompt the `AUTO_MERGE` to update the merged API endpoint with the source API changes automatically.

Type: String

Required: No

name

The new name for the `GraphQLApi` object.

Type: String

Required: Yes

openIDConnectConfig

The OpenID Connect configuration for the `GraphQLApi` object.

Type: [OpenIDConnectConfig](#) object

Required: No

ownerContact

The owner contact information for an API resource.

This field accepts any string input with a length of 0 - 256 characters.

Type: String

Required: No

queryDepthLimit

The maximum depth a query can have in a single request. Depth refers to the amount of nested levels allowed in the body of query. The default value is 0 (or unspecified), which indicates there's no depth limit. If you set a limit, it can be between 1 and 75 nested levels. This field will produce a limit error if the operation falls out of bounds.

Note that fields can still be set to nullable or non-nullable. If a non-nullable field produces an error, the error will be thrown upwards to the first nullable field available.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 75.

Required: No

resolverCountLimit

The maximum number of resolvers that can be invoked in a single request. The default value is 0 (or unspecified), which will set the limit to 10000. When specified, the limit value can be between 1 and 10000. This field will produce a limit error if the operation falls out of bounds.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

userPoolConfig

The new Amazon Cognito user pool configuration for the `~GraphQLApi` object.

Type: [UserPoolConfig](#) object

Required: No

xrayEnabled

A flag indicating whether to use AWS X-Ray tracing for the `GraphQLApi`.

Type: Boolean

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "graphqlApi": {
    "additionalAuthenticationProviders": [
      {
        "authenticationType": "string",
        "lambdaAuthorizerConfig": {
          "authorizerResultTtlInSeconds": number,
          "authorizerUri": "string",
          "identityValidationExpression": "string"
        },
        "openIDConnectConfig": {
          "authTTL": number,
          "clientId": "string",
          "iatTTL": number,
          "issuer": "string"
        },
        "userPoolConfig": {
          "appIdClientRegex": "string",
          "awsRegion": "string",
          "userPoolId": "string"
        }
      }
    ],
    "apiId": "string",
    "apiType": "string",
    "arn": "string",
    "authenticationType": "string",
    "dns": {
      "string": "string"
    },
    "enhancedMetricsConfig": {
      "dataSourceLevelMetricsBehavior": "string",
      "operationLevelMetricsConfig": "string",
      "resolverLevelMetricsBehavior": "string"
    },
    "introspectionConfig": "string",
    "lambdaAuthorizerConfig": {
      "authorizerResultTtlInSeconds": number,
```

```

    "authorizerUri": "string",
    "identityValidationExpression": "string"
  },
  "logConfig": {
    "cloudWatchLogsRoleArn": "string",
    "excludeVerboseContent": boolean,
    "fieldLogLevel": "string"
  },
  "mergedApiExecutionRoleArn": "string",
  "name": "string",
  "openIDConnectConfig": {
    "authTTL": number,
    "clientId": "string",
    "iatTTL": number,
    "issuer": "string"
  },
  "owner": "string",
  "ownerContact": "string",
  "queryDepthLimit": number,
  "resolverCountLimit": number,
  "tags": {
    "string" : "string"
  },
  "uris": {
    "string" : "string"
  },
  "userPoolConfig": {
    "appIdClientRegex": "string",
    "awsRegion": "string",
    "defaultAction": "string",
    "userPoolId": "string"
  },
  "visibility": "string",
  "wafWebAclArn": "string",
  "xrayEnabled": 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.

[graphqlApi](#)

The updated GraphQLApi object.

Type: [GraphQLApi](#) object

Errors

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

AccessDeniedException

You don't have access to perform this operation on this resource.

HTTP Status Code: 403

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateResolver

Updates a Resolver object.

Request Syntax

POST /v1/apis/*apiId*/types/*typeName*/resolvers/*fieldName* HTTP/1.1

Content-type: application/json

```
{
  "cachingConfig": {
    "cachingKeys": [ "string" ],
    "ttl": number
  },
  "code": "string",
  "dataSourceName": "string",
  "kind": "string",
  "maxBatchSize": number,
  "metricsConfig": "string",
  "pipelineConfig": {
    "functions": [ "string" ]
  },
  "requestMappingTemplate": "string",
  "responseMappingTemplate": "string",
  "runtime": {
    "name": "string",
    "runtimeVersion": "string"
  },
  "syncConfig": {
    "conflictDetection": "string",
    "conflictHandler": "string",
    "lambdaConflictHandlerConfig": {
      "lambdaConflictHandlerArn": "string"
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

fieldName

The new field name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

typeName

The new type name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

cachingConfig

The caching configuration for the resolver.

Type: [CachingConfig](#) object

Required: No

code

The `resolver` code that contains the request and response functions. When `code` is used, the `runtime` is required. The `runtime` value must be `APPSYNC_JS`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

dataSourceName

The new data source name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [_A-Za-z][_0-9A-Za-z]*

Required: No

kind

The resolver type.

- **UNIT:** A UNIT resolver type. A UNIT resolver is the default resolver type. You can use a UNIT resolver to run a GraphQL query against a single data source.
- **PIPELINE:** A PIPELINE resolver type. You can use a PIPELINE resolver to invoke a series of Function objects in a serial manner. You can use a pipeline resolver to run a GraphQL query against multiple data sources.

Type: String

Valid Values: UNIT | PIPELINE

Required: No

maxBatchSize

The maximum batching size for a resolver.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2000.

Required: No

metricsConfig

Enables or disables enhanced resolver metrics for specified resolvers. Note that metricsConfig won't be used unless the resolverLevelMetricsBehavior value

is set to `PER_RESOLVER_METRICS`. If the `resolverLevelMetricsBehavior` is set to `FULL_REQUEST_RESOLVER_METRICS` instead, `metricsConfig` will be ignored. However, you can still set its value.

`metricsConfig` can be `ENABLED` or `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

[pipelineConfig](#)

The `PipelineConfig`.

Type: [PipelineConfig](#) object

Required: No

[requestMappingTemplate](#)

The new request mapping template.

A resolver uses a request mapping template to convert a GraphQL expression into a format that a data source can understand. Mapping templates are written in Apache Velocity Template Language (VTL).

VTL request mapping templates are optional when using an AWS Lambda data source. For all other data sources, VTL request and response mapping templates are required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^.*$`

Required: No

[responseMappingTemplate](#)

The new response mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^.*$`

Required: No

runtime

Describes a runtime used by an AWS AppSync pipeline resolver or AWS AppSync function. Specifies the name and version of the runtime to use. Note that if a runtime is specified, code must also be specified.

Type: [AppSyncRuntime](#) object

Required: No

syncConfig

The SyncConfig for a resolver attached to a versioned data source.

Type: [SyncConfig](#) object

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "resolver": {
    "cachingConfig": {
      "cachingKeys": [ "string ],
      "ttl": number
    },
    "code": "string",
    "dataSourceName": "string",
    "fieldName": "string",
    "kind": "string",
    "maxBatchSize": number,
    "metricsConfig": "string",
    "pipelineConfig": {
      "functions": [ "string ]
    },
    "requestMappingTemplate": "string",
```

```
"resolverArn": "string",
"responseMappingTemplate": "string",
"runtime": {
  "name": "string",
  "runtimeVersion": "string"
},
"syncConfig": {
  "conflictDetection": "string",
  "conflictHandler": "string",
  "lambdaConflictHandlerConfig": {
    "lambdaConflictHandlerArn": "string"
  }
},
"typeName": "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.

resolver

The updated Resolver object.

Type: [Resolver](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateSourceApiAssociation

Updates some of the configuration choices of a particular source API association.

Request Syntax

```
POST /v1/mergedApis/mergedApiIdentifier/sourceApiAssociations/associationId HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "sourceApiAssociationConfig": {
    "mergeType": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

associationId

The ID generated by the AppSync service for the source API association.

Required: Yes

mergedApiIdentifier

The identifier of the AppSync Merged API. This is generated by the AppSync service. In most cases, Merged APIs (especially in your account) only require the API ID value or ARN of the merged API. However, Merged APIs in other accounts (cross-account use cases) strictly require the full resource ARN of the merged API.

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description field.

Type: String

Required: No

sourceApiAssociationConfig

The SourceApiAssociationConfig object data.

Type: [SourceApiAssociationConfig](#) object

Required: No

Response Syntax

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

{
  "sourceApiAssociation": {
    "associationArn": "string",
    "associationId": "string",
    "description": "string",
    "lastSuccessfulMergeDate": number,
    "mergedApiArn": "string",
    "mergedApiId": "string",
    "sourceApiArn": "string",
    "sourceApiAssociationConfig": {
      "mergeType": "string"
    },
    "sourceApiAssociationStatus": "string",
    "sourceApiAssociationStatusDetail": "string",
    "sourceApiId": "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.

[sourceApiAssociation](#)

The SourceApiAssociation object data.

Type: [SourceApiAssociation](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type CODE_ERROR, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is CODE_ERROR.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateType

Updates a Type object.

Request Syntax

```
POST /v1/apis/apiId/types/typeName HTTP/1.1
Content-type: application/json
```

```
{
  "definition": "string",
  "format": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

apiId

The API ID.

Required: Yes

typeName

The new type name.

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [_A-Za-z][_0-9A-Za-z]*

Required: Yes

Request Body

The request accepts the following data in JSON format.

definition

The new definition.

Type: String

Required: No

[format](#)

The new type format: SDL or JSON.

Type: String

Valid Values: SDL | JSON

Required: Yes

Response Syntax

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

{
  "type": {
    "arn": "string",
    "definition": "string",
    "description": "string",
    "format": "string",
    "name": "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.

[type](#)

The updated Type object.

Type: [Type](#) object

Errors

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

BadRequestException

The request is not well formed. For example, a value is invalid or a required field is missing. Check the field values, and then try again.

detail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

reason

Provides context for the cause of the bad request. The only supported value is `CODE_ERROR`.

HTTP Status Code: 400

ConcurrentModificationException

Another modification is in progress at this time and it must complete before you can make your change.

HTTP Status Code: 409

InternalFailureException

An internal AWS AppSync error occurred. Try your request again.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found. Check the resource, and then try again.

HTTP Status Code: 404

UnauthorizedException

You aren't authorized to perform this operation.

HTTP Status Code: 401

See Also

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

- [AWS Command Line Interface V2](#)
- [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 Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The AWS AppSync 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:

- [AdditionalAuthenticationProvider](#)
- [Api](#)
- [ApiAssociation](#)
- [ApiCache](#)
- [ApiKey](#)
- [AppSyncRuntime](#)
- [AuthMode](#)
- [AuthorizationConfig](#)
- [AuthProvider](#)
- [AwsIamConfig](#)
- [BadRequestDetail](#)
- [CachingConfig](#)
- [ChannelNamespace](#)
- [CodeError](#)
- [CodeErrorLocation](#)
- [CognitoConfig](#)
- [CognitoUserPoolConfig](#)
- [DataSource](#)
- [DataSourceIntrospectionModel](#)
- [DataSourceIntrospectionModelField](#)

- [DataSourceIntrospectionModelFieldType](#)
- [DataSourceIntrospectionModelIndex](#)
- [DataSourceIntrospectionResult](#)
- [DeltaSyncConfig](#)
- [DomainNameConfig](#)
- [DynamodbDataSourceConfig](#)
- [ElasticsearchDataSourceConfig](#)
- [EnhancedMetricsConfig](#)
- [ErrorDetail](#)
- [EvaluateCodeErrorDetail](#)
- [EventBridgeDataSourceConfig](#)
- [EventConfig](#)
- [EventLogConfig](#)
- [FunctionConfiguration](#)
- [GraphQLApi](#)
- [HandlerConfig](#)
- [HandlerConfigs](#)
- [HttpDataSourceConfig](#)
- [Integration](#)
- [LambdaAuthorizerConfig](#)
- [LambdaConfig](#)
- [LambdaConflictHandlerConfig](#)
- [LambdaDataSourceConfig](#)
- [LogConfig](#)
- [OpenIDConnectConfig](#)
- [OpenSearchServiceDataSourceConfig](#)
- [PipelineConfig](#)
- [RdsDataApiConfig](#)
- [RdsHttpEndpointConfig](#)
- [RelationalDatabaseDataSourceConfig](#)

- [Resolver](#)
- [SourceApiAssociation](#)
- [SourceApiAssociationConfig](#)
- [SourceApiAssociationSummary](#)
- [SyncConfig](#)
- [Type](#)
- [UserPoolConfig](#)

AdditionalAuthenticationProvider

Describes an additional authentication provider.

Contents

authenticationType

The authentication type: API key, AWS Identity and Access Management (IAM), OpenID Connect (OIDC), Amazon Cognito user pools, or AWS Lambda.

Type: String

Valid Values: API_KEY | AWS_IAM | AMAZON_COGNITO_USER_POOLS | OPENID_CONNECT | AWS_LAMBDA

Required: No

lambdaAuthorizerConfig

Configuration for Lambda function authorization.

Type: [LambdaAuthorizerConfig](#) object

Required: No

openIDConnectConfig

The OIDC configuration.

Type: [OpenIDConnectConfig](#) object

Required: No

userPoolConfig

The Amazon Cognito user pool configuration.

Type: [CognitoUserPoolConfig](#) object

Required: No

See Also

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

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

Api

Describes an AWS AppSync API. You can use `Api` for an AWS AppSync API with your preferred configuration, such as an Event API that provides real-time message publishing and message subscriptions over WebSockets.

Contents

apiArn

The Amazon Resource Name (ARN) for the `Api`.

Type: String

Required: No

apiId

The `Api` ID.

Type: String

Required: No

created

The date and time that the `Api` was created.

Type: Timestamp

Required: No

dns

The DNS records for the API. This will include an HTTP and a real-time endpoint.

Type: String to string map

Required: No

eventConfig

The Event API configuration. This includes the default authorization configuration for connecting, publishing, and subscribing to an Event API.

Type: [EventConfig](#) object

Required: No

name

The name of the Api.

Type: String

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

Pattern: `[A-Za-z0-9_\- \ ]+`

Required: No

ownerContact

The owner contact information for the Api

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

Pattern: `[A-Za-z0-9_\- \ .]+`

Required: No

tags

A map with keys of TagKey objects and values of TagValue objects.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[ \s \w + - = \ . : / @ ] * $`

Required: No

wafWebAclArn

The Amazon Resource Name (ARN) of the AWS WAF web access control list (web ACL) associated with this Api, if one exists.

Type: String

Required: No

xrayEnabled

A flag indicating whether to use AWS X-Ray tracing for this Api.

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](#)

ApiAssociation

Describes an `ApiAssociation` object.

Contents

`apiId`

The API ID.

Type: String

Required: No

`associationStatus`

Identifies the status of an association.

- **PROCESSING**: The API association is being created. You cannot modify association requests during processing.
- **SUCCESS**: The API association was successful. You can modify associations after success.
- **FAILED**: The API association has failed. You can modify associations after failure.

Type: String

Valid Values: PROCESSING | FAILED | SUCCESS

Required: No

`deploymentDetail`

Details about the last deployment status.

Type: String

Required: No

`domainName`

The domain name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\\w\\d-]*\\.)?([\\w\\d-]+\\.)+[\\w\\d-]+$`

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](#)

ApiCache

The ApiCache object.

Contents

apiCachingBehavior

Caching behavior.

- **FULL_REQUEST_CACHING:** All requests from the same user are cached. Individual resolvers are automatically cached. All API calls will try to return responses from the cache.
- **PER_RESOLVER_CACHING:** Individual resolvers that you specify are cached.
- **OPERATION_LEVEL_CACHING:** Full requests are cached together and returned without executing resolvers.

Type: String

Valid Values: FULL_REQUEST_CACHING | PER_RESOLVER_CACHING | OPERATION_LEVEL_CACHING

Required: No

atRestEncryptionEnabled

At-rest encryption flag for cache. You cannot update this setting after creation.

Type: Boolean

Required: No

healthMetricsConfig

Controls how cache health metrics will be emitted to CloudWatch. Cache health metrics include:

- **NetworkBandwidthOutAllowanceExceeded:** The network packets dropped because the throughput exceeded the aggregated bandwidth limit. This is useful for diagnosing bottlenecks in a cache configuration.
- **EngineCPUUtilization:** The CPU utilization (percentage) allocated to the Redis process. This is useful for diagnosing bottlenecks in a cache configuration.

Metrics will be recorded by API ID. You can set the value to ENABLED or DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

status

The cache instance status.

- **AVAILABLE:** The instance is available for use.
- **CREATING:** The instance is currently creating.
- **DELETING:** The instance is currently deleting.
- **MODIFYING:** The instance is currently modifying.
- **FAILED:** The instance has failed creation.

Type: String

Valid Values: AVAILABLE | CREATING | DELETING | MODIFYING | FAILED

Required: No

transitEncryptionEnabled

Transit encryption flag when connecting to cache. You cannot update this setting after creation.

Type: Boolean

Required: No

ttl

TTL in seconds for cache entries.

Valid values are 1–3,600 seconds.

Type: Long

Required: No

type

The cache instance type. Valid values are

- SMALL

- MEDIUM
- LARGE
- XLARGE
- LARGE_2X
- LARGE_4X
- LARGE_8X (not available in all regions)
- LARGE_12X

Historically, instance types were identified by an EC2-style value. As of July 2020, this is deprecated, and the generic identifiers above should be used.

The following legacy instance types are available, but their use is discouraged:

- **T2_SMALL**: A t2.small instance type.
- **T2_MEDIUM**: A t2.medium instance type.
- **R4_LARGE**: A r4.large instance type.
- **R4_XLARGE**: A r4.xlarge instance type.
- **R4_2XLARGE**: A r4.2xlarge instance type.
- **R4_4XLARGE**: A r4.4xlarge instance type.
- **R4_8XLARGE**: A r4.8xlarge instance type.

Type: String

Valid Values: T2_SMALL | T2_MEDIUM | R4_LARGE | R4_XLARGE | R4_2XLARGE | R4_4XLARGE | R4_8XLARGE | SMALL | MEDIUM | LARGE | XLARGE | LARGE_2X | LARGE_4X | LARGE_8X | LARGE_12X

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](#)

ApiKey

Describes an API key.

Customers invoke AWS AppSync GraphQL API operations with API keys as an identity mechanism. There are two key versions:

da1: We introduced this version at launch in November 2017. These keys always expire after 7 days. Amazon DynamoDB TTL manages key expiration. These keys ceased to be valid after February 21, 2018, and they should no longer be used.

- `ListApiKeys` returns the expiration time in milliseconds.
- `CreateApiKey` returns the expiration time in milliseconds.
- `UpdateApiKey` is not available for this key version.
- `DeleteApiKey` deletes the item from the table.
- Expiration is stored in DynamoDB as milliseconds. This results in a bug where keys are not automatically deleted because DynamoDB expects the TTL to be stored in seconds. As a one-time action, we deleted these keys from the table on February 21, 2018.

da2: We introduced this version in February 2018 when AWS AppSync added support to extend key expiration.

- `ListApiKeys` returns the expiration time and deletion time in seconds.
- `CreateApiKey` returns the expiration time and deletion time in seconds and accepts a user-provided expiration time in seconds.
- `UpdateApiKey` returns the expiration time and deletion time in seconds and accepts a user-provided expiration time in seconds. Expired API keys are kept for 60 days after the expiration time. You can update the key expiration time as long as the key isn't deleted.
- `DeleteApiKey` deletes the item from the table.
- Expiration is stored in DynamoDB as seconds. After the expiration time, using the key to authenticate will fail. However, you can reinstate the key before deletion.
- Deletion is stored in DynamoDB as seconds. The key is deleted after deletion time.

Contents

deletes

The time after which the API key is deleted. The date is represented as seconds since the epoch, rounded down to the nearest hour.

Type: Long

Required: No

description

A description of the purpose of the API key.

Type: String

Required: No

expires

The time after which the API key expires. The date is represented as seconds since the epoch, rounded down to the nearest hour.

Type: Long

Required: No

id

The API key ID.

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](#)

AppSyncRuntime

Describes a runtime used by an AWS AppSync pipeline resolver or AWS AppSync function. Specifies the name and version of the runtime to use. Note that if a runtime is specified, code must also be specified.

Contents

name

The name of the runtime to use. Currently, the only allowed value is APPSYNC_JS.

Type: String

Valid Values: APPSYNC_JS

Required: Yes

runtimeVersion

The version of the runtime to use. Currently, the only allowed version is 1.0.0.

Type: String

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](#)

AuthMode

Describes an authorization configuration. Use AuthMode to specify the publishing and subscription authorization configuration for an Event API.

Contents

authType

The authorization type.

Type: String

Valid Values: API_KEY | AWS_IAM | AMAZON_COGNITO_USER_POOLS | OPENID_CONNECT
| AWS_LAMBDA

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](#)

AuthorizationConfig

The authorization configuration in case the HTTP endpoint requires authorization.

Contents

authorizationType

The authorization type that the HTTP endpoint requires.

- **AWS_IAM:** The authorization type is Signature Version 4 (SigV4).

Type: String

Valid Values: AWS_IAM

Required: Yes

awslamConfig

The AWS Identity and Access Management (IAM) settings.

Type: [AwsIamConfig](#) object

Required: No

See Also

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

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

AuthProvider

Describes an authorization provider.

Contents

authType

The authorization type.

Type: String

Valid Values: API_KEY | AWS_IAM | AMAZON_COGNITO_USER_POOLS | OPENID_CONNECT
| AWS_LAMBDA

Required: Yes

cognitoConfig

Describes an Amazon Cognito user pool configuration.

Type: [CognitoConfig](#) object

Required: No

lambdaAuthorizerConfig

A LambdaAuthorizerConfig specifies how to authorize AWS AppSync API access when using the AWS_LAMBDA authorizer mode. Be aware that an AWS AppSync API can have only one AWS Lambda authorizer configured at a time.

Type: [LambdaAuthorizerConfig](#) object

Required: No

openIDConnectConfig

Describes an OpenID Connect (OIDC) configuration.

Type: [OpenIDConnectConfig](#) object

Required: No

See Also

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

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

AwsIamConfig

The AWS Identity and Access Management (IAM) configuration.

Contents

signingRegion

The signing AWS Region for IAM authorization.

Type: String

Required: No

signingServiceName

The signing service name for IAM authorization.

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](#)

BadRequestDetail

Provides further details for the reason behind the bad request. For reason type `CODE_ERROR`, the detail will contain a list of code errors.

Contents

`codeErrors`

Contains the list of errors in the request.

Type: Array of [CodeError](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

CachingConfig

The caching configuration for a resolver that has caching activated.

Contents

ttl

The TTL in seconds for a resolver that has caching activated.

Valid values are 1–3,600 seconds.

Type: Long

Required: Yes

cachingKeys

The caching keys for a resolver that has caching activated.

Valid values are entries from the `$context.arguments`, `$context.source`, and `$context.identity` maps.

Type: Array of strings

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](#)

ChannelNamespace

Describes a channel namespace associated with an `Api`. The `ChannelNamespace` contains the definitions for code handlers for the `Api`.

Contents

apiId

The `Api` ID.

Type: String

Required: No

channelNamespaceArn

The Amazon Resource Name (ARN) for the `ChannelNamespace`.

Type: String

Required: No

codeHandlers

The event handler functions that run custom business logic to process published events and subscribe requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

created

The date and time that the `ChannelNamespace` was created.

Type: Timestamp

Required: No

handlerConfigs

The configuration for the `OnPublish` and `OnSubscribe` handlers.

Type: [HandlerConfigs](#) object

Required: No

lastModified

The date and time that the ChannelNamespace was last changed.

Type: Timestamp

Required: No

name

The name of the channel namespace. This name must be unique within the Api.

Type: String

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

Pattern: ([A-Za-z0-9](?:[A-Za-z0-9\-_]{0,48}[A-Za-z0-9])?)

Required: No

publishAuthModes

The authorization mode to use for publishing messages on the channel namespace. This configuration overrides the default Apiauthorization configuration.

Type: Array of [AuthMode](#) objects

Required: No

subscribeAuthModes

The authorization mode to use for subscribing to messages on the channel namespace. This configuration overrides the default Apiauthorization configuration.

Type: Array of [AuthMode](#) objects

Required: No

tags

A map with keys of TagKey objects and values of TagValue objects.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[\\s\\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](#)

CodeError

Describes an AppSync error.

Contents

errorType

The type of code error.

Examples include, but aren't limited to: LINT_ERROR, PARSER_ERROR.

Type: String

Required: No

location

The line, column, and span location of the error in the code.

Type: [CodeErrorLocation](#) object

Required: No

value

A user presentable error.

Examples include, but aren't limited to: Parsing error: Unterminated string literal.

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](#)

CodeErrorLocation

Describes the location of the error in a code sample.

Contents

column

The column number in the code. Defaults to 0 if unknown.

Type: Integer

Required: No

line

The line number in the code. Defaults to 0 if unknown.

Type: Integer

Required: No

span

The span/length of the error. Defaults to -1 if unknown.

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

CognitoConfig

Describes an Amazon Cognito configuration.

Contents

awsRegion

The AWS Region in which the user pool was created.

Type: String

Required: Yes

userId

The user pool ID.

Type: String

Required: Yes

appIdClientRegex

A regular expression for validating the incoming Amazon Cognito user pool app client ID. If this value isn't set, no filtering is applied.

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](#)

CognitoUserPoolConfig

Describes an Amazon Cognito user pool configuration.

Contents

awsRegion

The AWS Region in which the user pool was created.

Type: String

Required: Yes

userPoolId

The user pool ID.

Type: String

Required: Yes

appIdClientRegex

A regular expression for validating the incoming Amazon Cognito user pool app client ID. If this value isn't set, no filtering is applied.

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](#)

DataSource

Describes a data source.

Contents

dataSourceArn

The data source Amazon Resource Name (ARN).

Type: String

Required: No

description

The description of the data source.

Type: String

Required: No

dynamodbConfig

DynamoDB settings.

Type: [DynamodbDataSourceConfig](#) object

Required: No

elasticsearchConfig

Amazon OpenSearch Service settings.

Type: [ElasticsearchDataSourceConfig](#) object

Required: No

eventBridgeConfig

Amazon EventBridge settings.

Type: [EventBridgeDataSourceConfig](#) object

Required: No

httpConfig

HTTP endpoint settings.

Type: [HttpDataSourceConfig](#) object

Required: No

lambdaConfig

Lambda settings.

Type: [LambdaDataSourceConfig](#) object

Required: No

metricsConfig

Enables or disables enhanced data source metrics for specified data sources. Note that `metricsConfig` won't be used unless the `dataSourceLevelMetricsBehavior` value is set to `PER_DATA_SOURCE_METRICS`. If the `dataSourceLevelMetricsBehavior` is set to `FULL_REQUEST_DATA_SOURCE_METRICS` instead, `metricsConfig` will be ignored. However, you can still set its value.

`metricsConfig` can be `ENABLED` or `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

name

The name of the data source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: No

openSearchServiceConfig

Amazon OpenSearch Service settings.

Type: [OpenSearchServiceDataSourceConfig](#) object

Required: No

relationalDatabaseConfig

Relational database settings.

Type: [RelationalDatabaseDataSourceConfig](#) object

Required: No

serviceRoleArn

The AWS Identity and Access Management (IAM) service role Amazon Resource Name (ARN) for the data source. The system assumes this role when accessing the data source.

Type: String

Required: No

type

The type of the data source.

- **AWS_LAMBDA**: The data source is an AWS Lambda function.
- **AMAZON_DYNAMODB**: The data source is an Amazon DynamoDB table.
- **AMAZON_ELASTICSEARCH**: The data source is an Amazon OpenSearch Service domain.
- **AMAZON_OPENSEARCH_SERVICE**: The data source is an Amazon OpenSearch Service domain.
- **AMAZON_EVENTBRIDGE**: The data source is an Amazon EventBridge configuration.
- **AMAZON_BEDROCK_RUNTIME**: The data source is the Amazon Bedrock runtime.
- **NONE**: There is no data source. Use this type when you want to invoke a GraphQL operation without connecting to a data source, such as when you're performing data transformation with resolvers or invoking a subscription from a mutation.
- **HTTP**: The data source is an HTTP endpoint.
- **RELATIONAL_DATABASE**: The data source is a relational database.

Type: String

Valid Values: AWS_LAMBDA | AMAZON_DYNAMODB | AMAZON_ELASTICSEARCH | NONE | HTTP | RELATIONAL_DATABASE | AMAZON_OPENSEARCH_SERVICE | AMAZON_EVENTBRIDGE | AMAZON_BEDROCK_RUNTIME

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](#)

DataSourceIntrospectionModel

Contains the introspected data that was retrieved from the data source.

Contents

fields

The DataSourceIntrospectionModelField object data.

Type: Array of [DataSourceIntrospectionModelField](#) objects

Required: No

indexes

The array of DataSourceIntrospectionModelIndex objects.

Type: Array of [DataSourceIntrospectionModelIndex](#) objects

Required: No

name

The name of the model. For example, this could be the name of a single table in a database.

Type: String

Required: No

primaryKey

The primary key stored as a DataSourceIntrospectionModelIndex object.

Type: [DataSourceIntrospectionModelIndex](#) object

Required: No

sdl

Contains the output of the SDL that was generated from the introspected types. This is controlled by the `includeModelsSDL` parameter of the `GetDataSourceIntrospection` 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](#)

DataSourceIntrospectionModelField

Represents the fields that were retrieved from the introspected data.

Contents

length

The length value of the introspected field.

Type: Long

Required: No

name

The name of the field that was retrieved from the introspected data.

Type: String

Required: No

type

The DataSourceIntrospectionModelFieldType object data.

Type: [DataSourceIntrospectionModelFieldType](#) object

Required: No

See Also

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

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

DataSourceIntrospectionModelFieldType

Represents the type data for each field retrieved from the introspection.

Contents

kind

Specifies the classification of data. For example, this could be set to values like `Scalar` or `NonNull` to indicate a fundamental property of the field.

Valid values include:

- `Scalar`: Indicates the value is a primitive type (scalar).
- `NonNull`: Indicates the field cannot be `null`.
- `List`: Indicates the field contains a list.

Type: `String`

Required: No

name

The name of the data type that represents the field. For example, `String` is a valid name value.

Type: `String`

Required: No

type

The `DataSourceIntrospectionModelFieldType` object data. The type is only present if `DataSourceIntrospectionModelFieldType.kind` is set to `NonNull` or `List`.

The type typically contains its own `kind` and `name` fields to represent the actual type data. For instance, type could contain a `kind` value of `Scalar` with a `name` value of `String`. The values `Scalar` and `String` will be collectively stored in the `values` field.

Type: [DataSourceIntrospectionModelFieldType](#) object

Required: No

values

The values of the type field. This field represents the AppSync data type equivalent of the introspected field.

Type: Array of strings

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](#)

DataSourceIntrospectionModelIndex

The index that was retrieved from the introspected data.

Contents

fields

The fields of the index.

Type: Array of strings

Required: No

name

The name of the index.

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](#)

DataSourceIntrospectionResult

Represents the output of a `DataSourceIntrospectionResult`. This is the populated result of a `GetDataSourceIntrospection` operation.

Contents

models

The array of `DataSourceIntrospectionModel` objects.

Type: Array of [DataSourceIntrospectionModel](#) objects

Required: No

nextToken

Determines the number of types to be returned in a single response before paginating. This value is typically taken from `nextToken` value from the previous response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

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

DeltaSyncConfig

Describes a Delta Sync configuration.

Contents

baseTableTTL

The number of minutes that an Item is stored in the data source.

Type: Long

Required: No

deltaSyncTableName

The Delta Sync table name.

Type: String

Required: No

deltaSyncTableTTL

The number of minutes that a Delta Sync log entry is stored in the Delta Sync table.

Type: Long

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](#)

DomainNameConfig

Describes a configuration for a custom domain.

Contents

appsyncDomainName

The domain name that AWS AppSync provides.

Type: String

Required: No

certificateArn

The Amazon Resource Name (ARN) of the certificate. This can be an AWS Certificate Manager (ACM) certificate or an AWS Identity and Access Management (IAM) server certificate.

Type: String

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

Pattern: `^arn:[a-z-]*:(acm|iam):[a-z0-9-]*:\d{12}:(certificate|server-certificate)/[0-9A-Za-z_/-]*$`

Required: No

description

A description of the DomainName configuration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^.*$`

Required: No

domainName

The domain name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(\*[\w\d-]*\.)?([\w\d-]+\.)+[\w\d-]+$`

Required: No

domainNameArn

The Amazon Resource Name (ARN) of the domain name.

Type: String

Required: No

hostedZoneId

The ID of your Amazon Route 53 hosted zone.

Type: String

Required: No

tags

A map with keys of TagKey objects and values of TagValue objects.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[ \s \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](#)

DynamodbDataSourceConfig

Describes an Amazon DynamoDB data source configuration.

Contents

awsRegion

The AWS Region.

Type: String

Required: Yes

tableName

The table name.

Type: String

Required: Yes

deltaSyncConfig

The `DeltaSyncConfig` for a versioned data source.

Type: [DeltaSyncConfig](#) object

Required: No

useCallerCredentials

Set to TRUE to use Amazon Cognito credentials with this data source.

Type: Boolean

Required: No

versioned

Set to TRUE to use Conflict Detection and Resolution with this data source.

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](#)

ElasticsearchDataSourceConfig

Describes an OpenSearch data source configuration.

As of September 2021, Amazon Elasticsearch service is Amazon OpenSearch Service. This configuration is deprecated. For new data sources, use [OpenSearchServiceDataSourceConfig](#) to specify an OpenSearch data source.

Contents

awsRegion

The AWS Region.

Type: String

Required: Yes

endpoint

The endpoint.

Type: String

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](#)

EnhancedMetricsConfig

Enables and controls the enhanced metrics feature. Enhanced metrics emit granular data on API usage and performance such as AppSync request and error counts, latency, and cache hits/misses. All enhanced metric data is sent to your CloudWatch account, and you can configure the types of data that will be sent.

Enhanced metrics can be configured at the resolver, data source, and operation levels.

EnhancedMetricsConfig contains three required parameters, each controlling one of these categories:

1. `resolverLevelMetricsBehavior`: Controls how resolver metrics will be emitted to CloudWatch. Resolver metrics include:

- GraphQL errors: The number of GraphQL errors that occurred.
- Requests: The number of invocations that occurred during a request.
- Latency: The time to complete a resolver invocation.
- Cache hits: The number of cache hits during a request.
- Cache misses: The number of cache misses during a request.

These metrics can be emitted to CloudWatch per resolver or for all resolvers in the request. Metrics will be recorded by API ID and resolver name. `resolverLevelMetricsBehavior` accepts one of these values at a time:

- `FULL_REQUEST_RESOLVER_METRICS`: Records and emits metric data for all resolvers in the request.
- `PER_RESOLVER_METRICS`: Records and emits metric data for resolvers that have the `metricsConfig` value set to `ENABLED`.

2. `dataSourceLevelMetricsBehavior`: Controls how data source metrics will be emitted to CloudWatch. Data source metrics include:

- Requests: The number of invocations that occurred during a request.
- Latency: The time to complete a data source invocation.
- Errors: The number of errors that occurred during a data source invocation.

These metrics can be emitted to CloudWatch per data source or for all data sources in the request. Metrics will be recorded by API ID and data source name. `dataSourceLevelMetricsBehavior` accepts one of these values at a time:

- `FULL_REQUEST_DATA_SOURCE_METRICS`: Records and emits metric data for all data sources in the request.
 - `PER_DATA_SOURCE_METRICS`: Records and emits metric data for data sources that have the `metricsConfig` value set to `ENABLED`.
3. `operationLevelMetricsConfig`: Controls how operation metrics will be emitted to CloudWatch. Operation metrics include:
- **Requests**: The number of times a specified GraphQL operation was called.
 - **GraphQL errors**: The number of GraphQL errors that occurred during a specified GraphQL operation.

Metrics will be recorded by API ID and operation name. You can set the value to `ENABLED` or `DISABLED`.

Contents

`dataSourceLevelMetricsBehavior`

Controls how data source metrics will be emitted to CloudWatch. Data source metrics include:

- **Requests**: The number of invocations that occurred during a request.
- **Latency**: The time to complete a data source invocation.
- **Errors**: The number of errors that occurred during a data source invocation.

These metrics can be emitted to CloudWatch per data source or for all data sources in the request. Metrics will be recorded by API ID and data source name.

`dataSourceLevelMetricsBehavior` accepts one of these values at a time:

- `FULL_REQUEST_DATA_SOURCE_METRICS`: Records and emits metric data for all data sources in the request.
- `PER_DATA_SOURCE_METRICS`: Records and emits metric data for data sources that have the `metricsConfig` value set to `ENABLED`.

Type: String

Valid Values: `FULL_REQUEST_DATA_SOURCE_METRICS` | `PER_DATA_SOURCE_METRICS`

Required: Yes

operationLevelMetricsConfig

Controls how operation metrics will be emitted to CloudWatch. Operation metrics include:

- Requests: The number of times a specified GraphQL operation was called.
- GraphQL errors: The number of GraphQL errors that occurred during a specified GraphQL operation.

Metrics will be recorded by API ID and operation name. You can set the value to `ENABLED` or `DISABLED`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: Yes

resolverLevelMetricsBehavior

Controls how resolver metrics will be emitted to CloudWatch. Resolver metrics include:

- GraphQL errors: The number of GraphQL errors that occurred.
- Requests: The number of invocations that occurred during a request.
- Latency: The time to complete a resolver invocation.
- Cache hits: The number of cache hits during a request.
- Cache misses: The number of cache misses during a request.

These metrics can be emitted to CloudWatch per resolver or for all resolvers in the request. Metrics will be recorded by API ID and resolver name. `resolverLevelMetricsBehavior` accepts one of these values at a time:

- `FULL_REQUEST_RESOLVER_METRICS`: Records and emits metric data for all resolvers in the request.
- `PER_RESOLVER_METRICS`: Records and emits metric data for resolvers that have the `metricsConfig` value set to `ENABLED`.

Type: String

Valid Values: `FULL_REQUEST_RESOLVER_METRICS` | `PER_RESOLVER_METRICS`

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](#)

ErrorDetail

Contains the list of errors generated. When using JavaScript, this will apply to the request or response function evaluation.

Contents

message

The error payload.

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](#)

EvaluateCodeErrorDetail

Contains the list of errors from a code evaluation response.

Contents

codeErrors

Contains the list of `CodeError` objects.

Type: Array of [CodeError](#) objects

Required: No

message

The error payload.

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](#)

EventBridgeDataSourceConfig

Describes an Amazon EventBridge bus data source configuration.

Contents

eventBusArn

The ARN of the event bus. For more information about event buses, see [Amazon EventBridge event buses](#).

Type: String

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](#)

EventConfig

Describes the authorization configuration for connections, message publishing, message subscriptions, and logging for an Event API.

Contents

authProviders

A list of authorization providers.

Type: Array of [AuthProvider](#) objects

Required: Yes

connectionAuthModes

A list of valid authorization modes for the Event API connections.

Type: Array of [AuthMode](#) objects

Required: Yes

defaultPublishAuthModes

A list of valid authorization modes for the Event API publishing.

Type: Array of [AuthMode](#) objects

Required: Yes

defaultSubscribeAuthModes

A list of valid authorization modes for the Event API subscriptions.

Type: Array of [AuthMode](#) objects

Required: Yes

logConfig

The CloudWatch Logs configuration for the Event API.

Type: [EventLogConfig](#) object

Required: No

See Also

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

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

EventLogConfig

Describes the CloudWatch Logs configuration for the Event API.

Contents

cloudWatchLogsRoleArn

The IAM service role that AWS AppSync assumes to publish CloudWatch Logs in your account.

Type: String

Required: Yes

logLevel

The type of information to log for the Event API.

Type: String

Valid Values: NONE | ERROR | ALL | INFO | DEBUG

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](#)

FunctionConfiguration

A function is a reusable entity. You can use multiple functions to compose the resolver logic.

Contents

code

The `function` code that contains the request and response functions. When `code` is used, the `runtime` is required. The `runtime` value must be `APPSYNC_JS`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

dataSourceName

The name of the `DataSource`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: No

description

The `Function` description.

Type: String

Required: No

functionArn

The Amazon Resource Name (ARN) of the `Function` object.

Type: String

Required: No

functionId

A unique ID representing the `Function` object.

Type: String

Required: No

functionVersion

The version of the request mapping template. Currently, only the 2018-05-29 version of the template is supported.

Type: String

Required: No

maxBatchSize

The maximum batching size for a resolver.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2000.

Required: No

name

The name of the `Function` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: No

requestMappingTemplate

The `Function` request mapping template. Functions support only the 2018-05-29 version of the request mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^.*$`

Required: No

responseMappingTemplate

The `Function` response mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^.*$`

Required: No

runtime

Describes a runtime used by an AWS AppSync pipeline resolver or AWS AppSync function. Specifies the name and version of the runtime to use. Note that if a runtime is specified, code must also be specified.

Type: [AppSyncRuntime](#) object

Required: No

syncConfig

Describes a Sync configuration for a resolver.

Specifies which Conflict Detection strategy and Resolution strategy to use when the resolver is invoked.

Type: [SyncConfig](#) object

Required: No

See Also

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

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

GraphQLApi

Describes a GraphQL API.

Contents

additionalAuthenticationProviders

A list of additional authentication providers for the GraphQLApi API.

Type: Array of [AdditionalAuthenticationProvider](#) objects

Required: No

apiId

The API ID.

Type: String

Required: No

apiType

The value that indicates whether the GraphQL API is a standard API (GRAPHQL) or merged API (MERGED).

Type: String

Valid Values: GRAPHQL | MERGED

Required: No

arn

The Amazon Resource Name (ARN).

Type: String

Required: No

authenticationType

The authentication type.

Type: String

Valid Values: API_KEY | AWS_IAM | AMAZON_COGNITO_USER_POOLS | OPENID_CONNECT
| AWS_LAMBDA

Required: No

dns

The DNS records for the API.

Type: String to string map

Required: No

enhancedMetricsConfig

The enhancedMetricsConfig object.

Type: [EnhancedMetricsConfig](#) object

Required: No

introspectionConfig

Sets the value of the GraphQL API to enable (ENABLED) or disable (DISABLED) introspection. If no value is provided, the introspection configuration will be set to ENABLED by default. This field will produce an error if the operation attempts to use the introspection feature while this field is disabled.

For more information about introspection, see [GraphQL introspection](#).

Type: String

Valid Values: ENABLED | DISABLED

Required: No

lambdaAuthorizerConfig

Configuration for Lambda function authorization.

Type: [LambdaAuthorizerConfig](#) object

Required: No

logConfig

The Amazon CloudWatch Logs configuration.

Type: [LogConfig](#) object

Required: No

mergedApiExecutionRoleArn

The Identity and Access Management service role ARN for a merged API. The AppSync service assumes this role on behalf of the Merged API to validate access to source APIs at runtime and to prompt the AUTO_MERGE to update the merged API endpoint with the source API changes automatically.

Type: String

Required: No

name

The API name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: No

openIDConnectConfig

The OpenID Connect configuration.

Type: [OpenIDConnectConfig](#) object

Required: No

owner

The account owner of the GraphQL API.

Type: String

Required: No

ownerContact

The owner contact information for an API resource.

This field accepts any string input with a length of 0 - 256 characters.

Type: String

Required: No

queryDepthLimit

The maximum depth a query can have in a single request. Depth refers to the amount of nested levels allowed in the body of query. The default value is 0 (or unspecified), which indicates there's no depth limit. If you set a limit, it can be between 1 and 75 nested levels. This field will produce a limit error if the operation falls out of bounds.

Note that fields can still be set to nullable or non-nullable. If a non-nullable field produces an error, the error will be thrown upwards to the first nullable field available.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 75.

Required: No

resolverCountLimit

The maximum number of resolvers that can be invoked in a single request. The default value is 0 (or unspecified), which will set the limit to 10000. When specified, the limit value can be between 1 and 10000. This field will produce a limit error if the operation falls out of bounds.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

tags

The tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

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

Value Length Constraints: Maximum length of 256.

Value Pattern: `^[\\s\\w+ -=\\.:/@]*$`

Required: No

uris

The URIs.

Type: String to string map

Required: No

userPoolConfig

The Amazon Cognito user pool configuration.

Type: [UserPoolConfig](#) object

Required: No

visibility

Sets the value of the GraphQL API to public (GLOBAL) or private (PRIVATE). If no value is provided, the visibility will be set to GLOBAL by default. This value cannot be changed once the API has been created.

Type: String

Valid Values: GLOBAL | PRIVATE

Required: No

wafWebAclArn

The ARN of the AWS WAF access control list (ACL) associated with this `GraphQLApi`, if one exists.

Type: String

Required: No

xrayEnabled

A flag indicating whether to use AWS X-Ray tracing for this GraphQLApi.

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](#)

HandlerConfig

The configuration for a handler.

Contents

behavior

The behavior for the handler.

Type: String

Valid Values: CODE | DIRECT

Required: Yes

integration

The integration data source configuration for the handler.

Type: [Integration](#) object

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](#)

HandlerConfigs

The configuration for the `OnPublish` and `OnSubscribe` handlers.

Contents

onPublish

The configuration for the `OnPublish` handler.

Type: [HandlerConfig](#) object

Required: No

onSubscribe

The configuration for the `OnSubscribe` handler.

Type: [HandlerConfig](#) object

Required: No

See Also

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

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

HttpDataSourceConfig

Describes an HTTP data source configuration.

Contents

authorizationConfig

The authorization configuration in case the HTTP endpoint requires authorization.

Type: [AuthorizationConfig](#) object

Required: No

endpoint

The HTTP URL endpoint. You can specify either the domain name or IP, and port combination, and the URL scheme must be HTTP or HTTPS. If you don't specify the port, AWS AppSync uses the default port 80 for the HTTP endpoint and port 443 for HTTPS endpoints.

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](#)

Integration

The integration data source configuration for the handler.

Contents

dataSourceName

The unique name of the data source that has been configured on the API.

Type: String

Required: Yes

lambdaConfig

The configuration for a Lambda data source.

Type: [LambdaConfig](#) object

Required: No

See Also

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

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

LambdaAuthorizerConfig

A `LambdaAuthorizerConfig` specifies how to authorize AWS AppSync API access when using the `AWS_LAMBDA` authorizer mode. Be aware that an AWS AppSync API can have only one AWS Lambda authorizer configured at a time.

Contents

`authorizerUri`

The Amazon Resource Name (ARN) of the Lambda function to be called for authorization. This can be a standard Lambda ARN, a version ARN (`.../v3`), or an alias ARN.

Note: This Lambda function must have the following resource-based policy assigned to it. When configuring Lambda authorizers in the console, this is done for you. To use the AWS Command Line Interface (AWS CLI), run the following:

```
aws lambda add-permission --function-name "arn:aws:lambda:us-east-2:111122223333:function:my-function" --statement-id "appsync" --principal appsync.amazonaws.com --action lambda:InvokeFunction
```

Type: String

Required: Yes

`authorizerResultTtlInSeconds`

The number of seconds a response should be cached for. The default is 0 seconds, which disables caching. If you don't specify a value for `authorizerResultTtlInSeconds`, the default value is used. The maximum value is one hour (3600 seconds). The Lambda function can override this by returning a `ttlOverride` key in its response.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 3600.

Required: No

`identityValidationExpression`

A regular expression for validation of tokens before the Lambda function is called.

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](#)

LambdaConfig

The configuration for a Lambda data source.

Contents

invokeType

The invocation type for a Lambda data source.

Type: String

Valid Values: REQUEST_RESPONSE | EVENT

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](#)

LambdaConflictHandlerConfig

The LambdaConflictHandlerConfig object when configuring LAMBDA as the Conflict Handler.

Contents

lambdaConflictHandlerArn

The Amazon Resource Name (ARN) for the Lambda function to use as the Conflict Handler.

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](#)

LambdaDataSourceConfig

Describes an AWS Lambda data source configuration.

Contents

lambdaFunctionArn

The Amazon Resource Name (ARN) for the Lambda function.

Type: String

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](#)

LogConfig

The Amazon CloudWatch Logs configuration.

Contents

cloudWatchLogsRoleArn

The service role that AWS AppSync assumes to publish to CloudWatch logs in your account.

Type: String

Required: Yes

fieldLogLevel

The field logging level. Values can be NONE, ERROR, or ALL.

- **NONE:** No field-level logs are captured.
- **ERROR:** Logs the following information only for the fields that are in error:
 - The error section in the server response.
 - Field-level errors.
 - The generated request/response functions that got resolved for error fields.
- **ALL:** The following information is logged for all fields in the query:
 - Field-level tracing information.
 - The generated request/response functions that got resolved for each field.

Type: String

Valid Values: NONE | ERROR | ALL | INFO | DEBUG

Required: Yes

excludeVerboseContent

Set to TRUE to exclude sections that contain information such as headers, context, and evaluated mapping templates, regardless of logging level.

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](#)

OpenIDConnectConfig

Describes an OpenID Connect (OIDC) configuration.

Contents

issuer

The issuer for the OIDC configuration. The issuer returned by discovery must exactly match the value of `iss` in the ID token.

Type: String

Required: Yes

authTTL

The number of milliseconds that a token is valid after being authenticated.

Type: Long

Required: No

clientId

The client identifier of the relying party at the OpenID identity provider. This identifier is typically obtained when the relying party is registered with the OpenID identity provider. You can specify a regular expression so that AWS AppSync can validate against multiple client identifiers at a time.

Type: String

Required: No

iatTTL

The number of milliseconds that a token is valid after it's issued to a user.

Type: Long

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](#)

OpenSearchServiceDataSourceConfig

Describes an OpenSearch data source configuration.

Contents

awsRegion

The AWS Region.

Type: String

Required: Yes

endpoint

The endpoint.

Type: String

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](#)

PipelineConfig

The pipeline configuration for a resolver of kind PIPELINE.

Contents

functions

A list of `Function` objects.

Type: Array of strings

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](#)

RdsDataApiConfig

Contains the metadata required to introspect the RDS cluster.

Contents

databaseName

The name of the database in the cluster.

Type: String

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

Required: Yes

resourceArn

The resource ARN of the RDS cluster.

Type: String

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

Pattern: `^arn:[a-z-]*:rds:[a-z0-9-]*:\d{12}:cluster:[0-9A-Za-z_/-]*$`

Required: Yes

secretArn

The secret's ARN that was obtained from Secrets Manager. A secret consists of secret information, the secret value, plus metadata about the secret. A secret value can be a string or binary. It typically includes the ARN, secret name and description, policies, tags, encryption key from the Key Management Service, and key rotation data.

Type: String

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

Pattern: `^arn:[a-z-]*:secretsmanager:[a-z0-9-]*:\d{12}:secret:[0-9A-Za-z_/\+=.@!-]*$`

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](#)

RdsHttpEndpointConfig

The Amazon Relational Database Service (Amazon RDS) HTTP endpoint configuration.

Contents

awsRegion

AWS Region for Amazon RDS HTTP endpoint.

Type: String

Required: No

awsSecretStoreArn

AWS secret store Amazon Resource Name (ARN) for database credentials.

Type: String

Required: No

databaseName

Logical database name.

Type: String

Required: No

dbClusterIdentifier

Amazon RDS cluster Amazon Resource Name (ARN).

Type: String

Required: No

schema

Logical schema name.

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](#)

RelationalDatabaseDataSourceConfig

Describes a relational database data source configuration.

Contents

rdsHttpEndpointConfig

Amazon RDS HTTP endpoint settings.

Type: [RdsHttpEndpointConfig](#) object

Required: No

relationalDatabaseSourceType

Source type for the relational database.

- **RDS_HTTP_ENDPOINT**: The relational database source type is an Amazon Relational Database Service (Amazon RDS) HTTP endpoint.

Type: String

Valid Values: RDS_HTTP_ENDPOINT

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](#)

Resolver

Describes a resolver.

Contents

cachingConfig

The caching configuration for the resolver.

Type: [CachingConfig](#) object

Required: No

code

The resolver code that contains the request and response functions. When code is used, the runtime is required. The runtime value must be APPSYNC_JS.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

dataSourceName

The resolver data source name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: No

fieldName

The resolver field name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

Required: No

kind

The resolver type.

- **UNIT:** A UNIT resolver type. A UNIT resolver is the default resolver type. You can use a UNIT resolver to run a GraphQL query against a single data source.
- **PIPELINE:** A PIPELINE resolver type. You can use a PIPELINE resolver to invoke a series of `Function` objects in a serial manner. You can use a pipeline resolver to run a GraphQL query against multiple data sources.

Type: String

Valid Values: UNIT | PIPELINE

Required: No

maxBatchSize

The maximum batching size for a resolver.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2000.

Required: No

metricsConfig

Enables or disables enhanced resolver metrics for specified resolvers. Note that `metricsConfig` won't be used unless the `resolverLevelMetricsBehavior` value is set to `PER_RESOLVER_METRICS`. If the `resolverLevelMetricsBehavior` is set to `FULL_REQUEST_RESOLVER_METRICS` instead, `metricsConfig` will be ignored. However, you can still set its value.

`metricsConfig` can be `ENABLED` or `DISABLED`.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

pipelineConfig

The PipelineConfig.

Type: [PipelineConfig](#) object

Required: No

requestMappingTemplate

The request mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^.*$`

Required: No

resolverArn

The resolver Amazon Resource Name (ARN).

Type: String

Required: No

responseMappingTemplate

The response mapping template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `^.*$`

Required: No

runtime

Describes a runtime used by an AWS AppSync pipeline resolver or AWS AppSync function. Specifies the name and version of the runtime to use. Note that if a runtime is specified, code must also be specified.

Type: [AppSyncRuntime](#) object

Required: No

syncConfig

The SyncConfig for a resolver attached to a versioned data source.

Type: [SyncConfig](#) object

Required: No

typeName

The resolver type name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

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](#)

SourceApiAssociation

Describes the configuration of a source API. A source API is a GraphQL API that is linked to a merged API. There can be multiple source APIs attached to each merged API. When linked to a merged API, the source API's schema, data sources, and resolvers will be combined with other linked source API data to form a new, singular API.

Source APIs can originate from your account or from other accounts via AWS Resource Access Manager. For more information about sharing resources from other accounts, see [What is AWS Resource Access Manager?](#) in the *AWS Resource Access Manager* guide.

Contents

associationArn

The Amazon Resource Name (ARN) of the source API association.

Type: String

Required: No

associationId

The ID generated by the AppSync service for the source API association.

Type: String

Required: No

description

The description field.

Type: String

Required: No

lastSuccessfulMergeDate

The datetime value of the last successful merge of the source API association. The result will be in UTC format and your local time zone.

Type: Timestamp

Required: No

mergedApiArn

The Amazon Resource Name (ARN) of the AppSync Merged API.

Type: String

Required: No

mergedApiId

The ID of the AppSync Merged API.

Type: String

Required: No

sourceApiArn

The Amazon Resource Name (ARN) of the AppSync source API.

Type: String

Required: No

sourceApiAssociationConfig

The SourceApiAssociationConfig object data.

Type: [SourceApiAssociationConfig](#) object

Required: No

sourceApiAssociationStatus

The state of the source API association.

Type: String

Valid Values: MERGE_SCHEDULED | MERGE_FAILED | MERGE_SUCCESS |
MERGE_IN_PROGRESS | AUTO_MERGE_SCHEDULE_FAILED | DELETION_SCHEDULED |
DELETION_IN_PROGRESS | DELETION_FAILED

Required: No

sourceApiAssociationStatusDetail

The detailed message related to the current state of the source API association.

Type: String

Required: No

sourceApiId

The ID of the AppSync source API.

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](#)

SourceApiAssociationConfig

Describes properties used to specify configurations related to a source API.

Contents

mergeType

The property that indicates which merging option is enabled in the source API association.

Valid merge types are `MANUAL_MERGE` (default) and `AUTO_MERGE`. Manual merges are the default behavior and require the user to trigger any changes from the source APIs to the merged API manually. Auto merges subscribe the merged API to the changes performed on the source APIs so that any change in the source APIs are also made to the merged API. Auto merges use `MergedApiExecutionRoleArn` to perform merge operations.

Type: String

Valid Values: `MANUAL_MERGE` | `AUTO_MERGE`

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](#)

SourceApiAssociationSummary

Describes the ARNs and IDs of associations, Merged APIs, and source APIs.

Contents

associationArn

The Amazon Resource Name (ARN) of the source API association.

Type: String

Required: No

associationId

The ID generated by the AppSync service for the source API association.

Type: String

Required: No

description

The description field.

Type: String

Required: No

mergedApiArn

The Amazon Resource Name (ARN) of the AppSync Merged API.

Type: String

Required: No

mergedApiId

The ID of the AppSync Merged API.

Type: String

Required: No

sourceApiArn

The Amazon Resource Name (ARN) of the AppSync Source API.

Type: String

Required: No

sourceApiId

The ID of the AppSync source API.

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](#)

SyncConfig

Describes a Sync configuration for a resolver.

Specifies which Conflict Detection strategy and Resolution strategy to use when the resolver is invoked.

Contents

conflictDetection

The Conflict Detection strategy to use.

- **VERSION:** Detect conflicts based on object versions for this resolver.
- **NONE:** Do not detect conflicts when invoking this resolver.

Type: String

Valid Values: VERSION | NONE

Required: No

conflictHandler

The Conflict Resolution strategy to perform in the event of a conflict.

- **OPTIMISTIC_CONCURRENCY:** Resolve conflicts by rejecting mutations when versions don't match the latest version at the server.
- **AUTOMERGE:** Resolve conflicts with the Automerge conflict resolution strategy.
- **LAMBDA:** Resolve conflicts with an AWS Lambda function supplied in the LambdaConflictHandlerConfig.

Type: String

Valid Values: OPTIMISTIC_CONCURRENCY | LAMBDA | AUTOMERGE | NONE

Required: No

lambdaConflictHandlerConfig

The LambdaConflictHandlerConfig when configuring LAMBDA as the Conflict Handler.

Type: [LambdaConflictHandlerConfig](#) object

Required: No

See Also

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

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

Type

Describes a type.

Contents

arn

The type Amazon Resource Name (ARN).

Type: String

Required: No

definition

The type definition.

Type: String

Required: No

description

The type description.

Type: String

Required: No

format

The type format: SDL or JSON.

Type: String

Valid Values: SDL | JSON

Required: No

name

The type name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[_A-Za-z][_0-9A-Za-z]*`

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](#)

UserPoolConfig

Describes an Amazon Cognito user pool configuration.

Contents

awsRegion

The AWS Region in which the user pool was created.

Type: String

Required: Yes

defaultAction

The action that you want your GraphQL API to take when a request that uses Amazon Cognito user pool authentication doesn't match the Amazon Cognito user pool configuration.

Type: String

Valid Values: ALLOW | DENY

Required: Yes

userId

The user pool ID.

Type: String

Required: Yes

appIdClientRegex

A regular expression for validating the incoming Amazon Cognito user pool app client ID. If this value isn't set, no filtering is applied.

Type: String

Required: No

See Also

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

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

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

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

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

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

HTTP Status Code: 400

RequestEntityTooLargeException

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

HTTP Status Code: 413

RequestExpired

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

HTTP Status Code: 400

RequestTimeoutException

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

HTTP Status Code: 408

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400