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**AWS Migration Hub Config**

**AWS Migration Hub Home Region**

**API Version 2019-06-30**



## **AWS Migration Hub Config: AWS Migration Hub Home Region**

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# Welcome

The AWS Migration Hub home region APIs are available specifically for working with your Migration Hub home region. You can use these APIs to determine a home region, as well as to create and work with controls that describe the home region.

- You must make API calls for write actions (create, notify, associate, disassociate, import, or put) while in your home region, or a `HomeRegionNotSetException` error is returned.
- API calls for read actions (list, describe, stop, and delete) are permitted outside of your home region.
- If you call a write API outside the home region, an `InvalidInputException` is returned.
- You can call `GetHomeRegion` action to obtain the account's Migration Hub home region.

For specific API usage, see the sections that follow in this AWS Migration Hub Home Region API reference.

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# Actions

The following actions are supported:

- [CreateHomeRegionControl \(p. 3\)](#)
- [DescribeHomeRegionControls \(p. 6\)](#)
- [GetHomeRegion \(p. 9\)](#)

# CreateHomeRegionControl

This API sets up the home region for the calling account only.

## Request Syntax

```
{
  "DryRun": boolean,
  "HomeRegion": "string",
  "Target": {
    "Id": "string",
    "Type": "string"
  }
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 15\)](#).

The request accepts the following data in JSON format.

### DryRun (p. 3)

Optional Boolean flag to indicate whether any effect should take place. It tests whether the caller has permission to make the call.

Type: Boolean

Required: No

### HomeRegion (p. 3)

The name of the home region of the calling account.

Type: String

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

Pattern: `^[a-z]+-[a-z]+-[0-9]+$`

Required: Yes

### Target (p. 3)

The account for which this command sets up a home region control. The `Target` is always of type `ACCOUNT`.

Type: [Target \(p. 14\)](#) object

Required: Yes

## Response Syntax

```
{
  "HomeRegionControl": {
    "ControlId": "string",
  }
}
```

```
"HomeRegion": "string",  
"RequestedTime": number,  
"Target": {  
  "Id": "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.

### HomeRegionControl (p. 3)

This object is the `HomeRegionControl` object that's returned by a successful call to `CreateHomeRegionControl`.

Type: [HomeRegionControl \(p. 12\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 17\)](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### DryRunOperation

Exception raised to indicate that authorization of an action was successful, when the `DryRun` flag is set to true.

HTTP Status Code: 400

### InternalServerError

Exception raised when an internal, configuration, or dependency error is encountered.

HTTP Status Code: 500

### InvalidInputException

Exception raised when the provided input violates a policy constraint or is entered in the wrong format or data type.

HTTP Status Code: 400

### ServiceUnavailableException

Exception raised when a request fails due to temporary unavailability of the service.

HTTP Status Code: 500

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

## See Also

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

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



# DescribeHomeRegionControls

This API permits filtering on the `ControlId` and `HomeRegion` fields.

## Request Syntax

```
{  
  "ControlId": "string",  
  "HomeRegion": "string",  
  "MaxResults": number,  
  "NextToken": "string",  
  "Target": {  
    "Id": "string",  
    "Type": "string"  
  }  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 15\)](#).

The request accepts the following data in JSON format.

### ControlId (p. 6)

The `ControlId` is a unique identifier string of your `HomeRegionControl` object.

Type: String

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

Pattern: `^hrc-[a-z0-9]{12}$`

Required: No

### HomeRegion (p. 6)

The name of the home region you'd like to view.

Type: String

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

Pattern: `^[a-z]+-[a-z]+-[0-9]+$`

Required: No

### MaxResults (p. 6)

The maximum number of filtering results to display per page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### NextToken (p. 6)

If a `NextToken` was returned by a previous call, more results are available. To retrieve the next page of results, make the call again using the returned token in `NextToken`.

Type: String

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

Pattern: `^[a-zA-Z0-9\-\_\+\=]{0,2048}$`

Required: No

### Target (p. 6)

The target parameter specifies the identifier to which the home region is applied, which is always of type `ACCOUNT`. It applies the home region to the current `ACCOUNT`.

Type: [Target \(p. 14\)](#) object

Required: No

## Response Syntax

```
{
  "HomeRegionControls": [
    {
      "ControlId": "string",
      "HomeRegion": "string",
      "RequestedTime": number,
      "Target": {
        "Id": "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.

### HomeRegionControls (p. 7)

An array that contains your `HomeRegionControl` objects.

Type: Array of [HomeRegionControl \(p. 12\)](#) objects

Array Members: Maximum number of 100 items.

### NextToken (p. 7)

If a `NextToken` was returned by a previous call, more results are available. To retrieve the next page of results, make the call again using the returned token in `NextToken`.

Type: String

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

Pattern: `^[a-zA-Z0-9\.\+\=\]{0,2048}$`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 17\)](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerError**

Exception raised when an internal, configuration, or dependency error is encountered.

HTTP Status Code: 500

### **InvalidInputException**

Exception raised when the provided input violates a policy constraint or is entered in the wrong format or data type.

HTTP Status Code: 400

### **ServiceUnavailableException**

Exception raised when a request fails due to temporary unavailability of the service.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

## See Also

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

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

## GetHomeRegion

Returns the calling account's home region, if configured. This API is used by other AWS services to determine the regional endpoint for calling AWS Application Discovery Service and Migration Hub. You must call `GetHomeRegion` at least once before you call any other AWS Application Discovery Service and AWS Migration Hub APIs, to obtain the account's Migration Hub home region.

### Response Syntax

```
{  
  "HomeRegion": "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.

#### HomeRegion (p. 9)

The name of the home region of the calling account.

Type: String

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

Pattern: `^([a-z]+)-([a-z]+)-([0-9]+)$`

### Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 17\)](#).

#### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

#### InternalServerError

Exception raised when an internal, configuration, or dependency error is encountered.

HTTP Status Code: 500

#### InvalidInputException

Exception raised when the provided input violates a policy constraint or is entered in the wrong format or data type.

HTTP Status Code: 400

#### ServiceUnavailableException

Exception raised when a request fails due to temporary unavailability of the service.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

## See Also

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

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

# Data Types

The AWS Migration Hub Config 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:

- [HomeRegionControl \(p. 12\)](#)
- [Target \(p. 14\)](#)

# HomeRegionControl

A home region control is an object that specifies the home region for an account, with some additional information. It contains a target (always of type `ACCOUNT`), an ID, and a time at which the home region was set.

## Contents

### ControlId

A unique identifier that's generated for each home region control. It's always a string that begins with "hrc-" followed by 12 lowercase letters and numbers.

Type: String

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

Pattern: `^hrc-[a-z0-9]{12}$`

Required: No

### HomeRegion

The AWS Region that's been set as home region. For example, "us-west-2" or "eu-central-1" are valid home regions.

Type: String

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

Pattern: `^([a-z]+)-([a-z]+)-([0-9]+)$`

Required: No

### RequestedTime

A timestamp representing the time when the customer called `CreateHomeRegionControl` and set the home region for the account.

Type: Timestamp

Required: No

### Target

The target parameter specifies the identifier to which the home region is applied, which is always an `ACCOUNT`. It applies the home region to the current `ACCOUNT`.

Type: [Target \(p. 14\)](#) object

Required: No

## See Also

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

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

- [AWS SDK for Ruby V3](#)



## Target

The `target` parameter specifies the identifier to which the home region is applied, which is always an `ACCOUNT`. It applies the home region to the current `ACCOUNT`.

### Contents

#### Id

The `targetID` is a 12-character identifier of the `ACCOUNT` for which the control was created. (This must be the current account.)

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

#### Type

The target type is always an `ACCOUNT`.

Type: String

Valid Values: `ACCOUNT`

Required: Yes

### See Also

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

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

# Common Parameters

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

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

## X-Amz-Credential

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

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

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

Type: string

Required: Conditional

## X-Amz-Date

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

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

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

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

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

HTTP Status Code: 500

## **InvalidAction**

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

HTTP Status Code: 400

## **InvalidClientTokenId**

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

HTTP Status Code: 403

## **InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

## **InvalidParameterValue**

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

HTTP Status Code: 400

## **InvalidQueryParameter**

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

HTTP Status Code: 400

## **MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

## **MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400

**MissingAuthenticationToken**

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

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

**OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

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

HTTP Status Code: 400

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400