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# Amazon Interactive Video Service

## API Reference

API Version 2020-07-14



## **Amazon Interactive Video Service: API Reference**

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# Welcome

## Introduction

The Amazon Interactive Video Service (IVS) API is REST compatible, using a standard HTTP API and an [AWS SNS](#) event stream for responses. JSON is used for both requests and responses, including errors.

The API is an AWS regional service, currently in these regions: us-west-2, us-east-1, and eu-west-1.

**All API request parameters and URLs are case sensitive.**

For a summary of notable documentation changes in each release, see [Document History](#).

## Service Endpoints

The following are the Amazon IVS service endpoints (all HTTPS):

Region name: US West (Oregon)

- Region: `us-west-2`
- Endpoint: `ivs.us-west-2.amazonaws.com`

Region name: US East (Virginia)

- Region: `us-east-1`
- Endpoint: `ivs.us-east-1.amazonaws.com`

Region name: EU West (Dublin)

- Region: `eu-west-1`
- Endpoint: `ivs.eu-west-1.amazonaws.com`

## Allowed Header Values

- **Accept:** `application/json`
- **Accept-Encoding:** `gzip, deflate`
- **Content-Type:** `application/json`

## Resources

The following resources contain information about your IVS live stream (see [Getting Started with Amazon IVS](#)):

- Channel — Stores configuration data related to your live stream. You first create a channel and then use the channel's stream key to start your live stream. See the Channel endpoints for more information.
- Stream key — An identifier assigned by Amazon IVS when you create a channel, which is then used to authorize streaming. See the StreamKey endpoints for more information. ***Treat the stream key like a secret, since it allows anyone to stream to the channel.***
- Playback key pair — Video playback may be restricted using playback-authorization tokens, which use public-key encryption. A playback key pair is the public-private pair of keys used to sign and validate the playback-authorization token. See the PlaybackKeyPair endpoints for more information.

## Tagging

A *tag* is a metadata label that you assign to an AWS resource. A tag comprises a *key* and a *value*, both set by you. For example, you might set a tag as `topic:nature` to label a particular video category. See [Tagging AWS Resources](#) for more information, including restrictions that apply to tags.

Tags can help you identify and organize your AWS resources. For example, you can use the same tag for different resources to indicate that they are related. You can also use tags to manage access (see [Access Tags](#)).

The Amazon IVS API has these tag-related endpoints: [TagResource \(p. 49\)](#), [UntagResource \(p. 51\)](#), and [ListTagsForResource \(p. 42\)](#). The following resources support tagging: Channels, Stream Keys, and Playback Key Pairs.

## Authentication

All Amazon IVS API requests must be authenticated with a signature. The AWS Command-Line Interface (CLI) and Amazon IVS Player SDKs take care of signing the underlying API calls for you. However, if your application calls the Amazon IVS API directly, it's your responsibility to sign the requests.

You generate a signature using valid AWS credentials that have permission to perform the requested action. For example, you must sign `PutMetadata` requests with a signature generated from an IAM user account that has the `ivs:PutMetadata` permission.

For more information:

- Authentication and generating signatures — See [Authenticating Requests \(AWS Signature Version 4\)](#) in the *AWS General Reference*.
- Managing Amazon IVS permissions — See [Identity and Access Management](#) on the Security page of the *Amazon IVS User Guide*.

## Channel Endpoints

- [CreateChannel \(p. 9\)](#) — Creates a new channel and an associated stream key to start streaming.
- [GetChannel \(p. 21\)](#) — Gets the channel configuration for the specified channel ARN (Amazon Resource Name).
- [BatchGetChannel \(p. 5\)](#) — Performs [GetChannel \(p. 21\)](#) on multiple ARNs simultaneously.
- [ListChannels \(p. 32\)](#) — Gets summary information about all channels in your account, in the AWS region where the API request is processed. This list can be filtered to match a specified string.
- [UpdateChannel \(p. 53\)](#) — Updates a channel's configuration. This does not affect an ongoing stream of this channel. You must stop and restart the stream for the changes to take effect.
- [DeleteChannel \(p. 15\)](#) — Deletes the specified channel.

## StreamKey Endpoints

- [CreateStreamKey \(p. 12\)](#) — Creates a stream key, used to initiate a stream, for the specified channel ARN.
- [GetStreamKey \(p. 27\)](#) — Gets stream key information for the specified ARN.
- [BatchGetStreamKey \(p. 7\)](#) — Performs [GetStreamKey \(p. 27\)](#) on multiple ARNs simultaneously.
- [ListStreamKeys \(p. 37\)](#) — Gets summary information about stream keys for the specified channel.
- [DeleteStreamKey \(p. 19\)](#) — Deletes the stream key for the specified ARN, so it can no longer be used to stream.

## Stream Endpoints



- [GetStream \(p. 25\)](#) — Gets information about the active (live) stream on a specified channel.
- [ListStreams \(p. 40\)](#) — Gets summary information about live streams in your account, in the AWS region where the API request is processed.
- [StopStream \(p. 47\)](#) — Disconnects the incoming RTMPS stream for the specified channel. Can be used in conjunction with [DeleteStreamKey \(p. 19\)](#) to prevent further streaming to a channel.
- [PutMetadata \(p. 45\)](#) — Inserts metadata into the active stream of the specified channel. A maximum of 5 requests per second per channel is allowed, each with a maximum 1 KB payload. (If 5 TPS is not sufficient for your needs, we recommend batching your data into a single PutMetadata call.)

### PlaybackKeyPair Endpoints

For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

- [ImportPlaybackKeyPair \(p. 29\)](#) — Imports the public portion of a new key pair and returns its `arn` and `fingerprint`. The `privateKey` can then be used to generate viewer authorization tokens, to grant viewers access to authorized channels.
- [GetPlaybackKeyPair \(p. 23\)](#) — Gets a specified playback authorization key pair and returns the `arn` and `fingerprint`. The `privateKey` held by the caller can be used to generate viewer authorization tokens, to grant viewers access to authorized channels.
- [ListPlaybackKeyPairs \(p. 35\)](#) — Gets summary information about playback key pairs.
- [DeletePlaybackKeyPair \(p. 17\)](#) — Deletes a specified authorization key pair. This invalidates future viewer tokens generated using the key pair's `privateKey`.

### AWS Tags Endpoints

- [TagResource \(p. 49\)](#) — Adds or updates tags for the AWS resource with the specified ARN.
- [UntagResource \(p. 51\)](#) — Removes tags from the resource with the specified ARN.
- [ListTagsForResource \(p. 42\)](#) — Gets information about AWS tags for the specified ARN.

This document was last published on October 21, 2020.

# Actions

The following actions are supported:

- [BatchGetChannel](#) (p. 5)
- [BatchGetStreamKey](#) (p. 7)
- [CreateChannel](#) (p. 9)
- [CreateStreamKey](#) (p. 12)
- [DeleteChannel](#) (p. 15)
- [DeletePlaybackKeyPair](#) (p. 17)
- [DeleteStreamKey](#) (p. 19)
- [GetChannel](#) (p. 21)
- [GetPlaybackKeyPair](#) (p. 23)
- [GetStream](#) (p. 25)
- [GetStreamKey](#) (p. 27)
- [ImportPlaybackKeyPair](#) (p. 29)
- [ListChannels](#) (p. 32)
- [ListPlaybackKeyPairs](#) (p. 35)
- [ListStreamKeys](#) (p. 37)
- [ListStreams](#) (p. 40)
- [ListTagsForResource](#) (p. 42)
- [PutMetadata](#) (p. 45)
- [StopStream](#) (p. 47)
- [TagResource](#) (p. 49)
- [UntagResource](#) (p. 51)
- [UpdateChannel](#) (p. 53)

# BatchGetChannel

Performs [GetChannel](#) (p. 21) on multiple ARNs simultaneously.

## Request Syntax

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

{
  "arns": [ "string" ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### arns (p. 5)

Array of ARNs, one per channel.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

## Response Syntax

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

{
  "channels": [
    {
      "arn": "string",
      "authorized": boolean,
      "ingestEndpoint": "string",
      "latencyMode": "string",
      "name": "string",
      "playbackUrl": "string",
      "tags": {
        "string": "string"
      },
      "type": "string"
    }
  ],
  "errors": [
```

```
{
  {
    "arn": "string",
    "code": "string",
    "message": "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.

### [channels \(p. 5\)](#)

Type: Array of [Channel \(p. 58\)](#) objects

### [errors \(p. 5\)](#)

Each error object is related to a specific ARN in the request.

Type: Array of [BatchError \(p. 57\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

## 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](#)

# BatchGetStreamKey

Performs [GetStreamKey](#) (p. 27) on multiple ARNs simultaneously.

## Request Syntax

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

{
  "arns": [ "string" ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### arns (p. 7)

Array of ARNs, one per channel.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+$`

Required: Yes

## Response Syntax

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

{
  "errors": [
    {
      "arn": "string",
      "code": "string",
      "message": "string"
    }
  ],
  "streamKeys": [
    {
      "arn": "string",
      "channelArn": "string",
      "tags": {
        "string": "string"
      },
      "value": "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.

### **errors (p. 7)**

Type: Array of [BatchError \(p. 57\)](#) objects

### **streamKeys (p. 7)**

Type: Array of [StreamKey \(p. 67\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

## 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](#)

# CreateChannel

Creates a new channel and an associated stream key to start streaming.

## Request Syntax

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

{
  "authorized": boolean,
  "latencyMode": "string",
  "name": "string",
  "tags": {
    "string" : "string"
  },
  "type": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **authorized** (p. 9)

Whether the channel is authorized. Default: `false`.

Type: Boolean

Required: No

### **latencyMode** (p. 9)

Channel latency mode. Default: `LOW`.

Type: String

Valid Values: `NORMAL` | `LOW`

Required: No

### **name** (p. 9)

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

### **tags** (p. 9)

See [Channel:tags](#) (p. 59).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

#### type (p. 9)

Channel type, which determines the allowable resolution and bitrate. *If you exceed the allowable resolution or bitrate, the stream probably will disconnect immediately.* Valid values:

- **STANDARD**: Multiple qualities are generated from the original input, to automatically give viewers the best experience for their devices and network conditions. Vertical resolution can be up to 1080 and bitrate can be up to 8.5 Mbps.
- **BASIC**: Amazon IVS delivers the original input to viewers. The viewer's video-quality choice is limited to the original input. Vertical resolution can be up to 480 and bitrate can be up to 1.5 Mbps.

Default: STANDARD.

Type: String

Valid Values: BASIC | STANDARD

Required: No

## Response Syntax

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

{
  "channel": {
    "arn": "string",
    "authorized": boolean,
    "ingestEndpoint": "string",
    "latencyMode": "string",
    "name": "string",
    "playbackUrl": "string",
    "tags": {
      "string" : "string"
    },
    "type": "string"
  },
  "streamKey": {
    "arn": "string",
    "channelArn": "string",
    "tags": {
      "string" : "string"
    },
    "value": "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.

**[channel \(p. 10\)](#)**

Type: [Channel \(p. 58\)](#) object

**[streamKey \(p. 10\)](#)**

Type: [StreamKey \(p. 67\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

**AccessDeniedException**

HTTP Status Code: 403

**PendingVerification**

HTTP Status Code: 403

**ServiceQuotaExceededException**

HTTP Status Code: 402

**ValidationException**

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](#)

# CreateStreamKey

Creates a stream key, used to initiate a stream, for the specified channel ARN.

Note that [CreateChannel \(p. 9\)](#) creates a stream key. If you subsequently use `CreateStreamKey` on the same channel, it will fail because a stream key already exists and there is a limit of 1 stream key per channel. To reset the stream key on a channel, use [DeleteStreamKey \(p. 19\)](#) and then `CreateStreamKey`.

## Request Syntax

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

{
  "channelArn": "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.

### [channelArn \(p. 12\)](#)

ARN of the channel for which to create the stream key.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

### [tags \(p. 12\)](#)

See [Channel:tags \(p. 59\)](#).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "streamKey": {
    "arn": "string",
    "channelArn": "string",
    "tags": {
      "string" : "string"
    },
    "value": "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.

### [streamKey \(p. 12\)](#)

Stream key used to authenticate an RTMPS stream for ingestion.

Type: [StreamKey \(p. 67\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **PendingVerification**

HTTP Status Code: 403

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ServiceQuotaExceededException**

HTTP Status Code: 402

### **ValidationException**

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](#)

# DeleteChannel

Deletes the specified channel and its associated stream keys.

If you try to delete a live channel, you will get an error (409 ConflictException). To delete a channel that is live, call [StopStream \(p. 47\)](#), wait for the Amazon EventBridge "Stream End" event (to verify that the stream's state was changed from Live to Offline), then call DeleteChannel. (See [Using EventBridge with Amazon IVS.](#))

## Request Syntax

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

{
  "arn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **arn** (p. 15)

ARN of the channel to be deleted.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

**ConflictException**

HTTP Status Code: 409

**PendingVerification**

HTTP Status Code: 403

**ResourceNotFoundException**

HTTP Status Code: 404

**ValidationException**

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](#)

# DeletePlaybackKeyPair

Deletes a specified authorization key pair. This invalidates future viewer tokens generated using the key pair's `privateKey`. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

## Request Syntax

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

```
{  
  "arn": "string"  
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **arn** (p. 17)

ARN of the key pair to be deleted.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+$`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **PendingVerification**

HTTP Status Code: 403

**ResourceNotFoundException**

HTTP Status Code: 404

**ValidationException**

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](#)



# DeleteStreamKey

Deletes the stream key for the specified ARN, so it can no longer be used to stream.

## Request Syntax

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

{
  "arn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### arn (p. 19)

ARN of the stream key to be deleted.

Type: String

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

Pattern: ^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+\$

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### AccessDeniedException

HTTP Status Code: 403

### PendingVerification

HTTP Status Code: 403

**ResourceNotFoundException**

HTTP Status Code: 404

**ValidationException**

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](#)

# GetChannel

Gets the channel configuration for the specified channel ARN. See also [BatchGetChannel \(p. 5\)](#).

## Request Syntax

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

{
  "arn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### arn (p. 21)

ARN of the channel for which the configuration is to be retrieved.

Type: String

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

Pattern: ^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+\$

Required: Yes

## Response Syntax

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

{
  "channel": {
    "arn": "string",
    "authorized": boolean,
    "ingestEndpoint": "string",
    "latencyMode": "string",
    "name": "string",
    "playbackUrl": "string",
    "tags": {
      "string" : "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.

**[channel \(p. 21\)](#)**

Type: [Channel \(p. 58\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

**AccessDeniedException**

HTTP Status Code: 403

**ResourceNotFoundException**

HTTP Status Code: 404

**ValidationException**

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](#)

# GetPlaybackKeyPair

Gets a specified playback authorization key pair and returns the `arn` and `fingerprint`. The `privateKey` held by the caller can be used to generate viewer authorization tokens, to grant viewers access to authorized channels. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

## Request Syntax

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

{
  "arn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### arn (p. 23)

ARN of the key pair to be returned.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+$`

Required: Yes

## Response Syntax

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

{
  "keyPair": {
    "arn": "string",
    "fingerprint": "string",
    "name": "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.

**keyPair (p. 23)**

Type: [PlaybackKeyPair \(p. 62\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

**AccessDeniedException**

HTTP Status Code: 403

**ResourceNotFoundException**

HTTP Status Code: 404

**ValidationException**

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](#)

# GetStream

Gets information about the active (live) stream on a specified channel.

## Request Syntax

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

{
  "channelArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [channelArn \(p. 25\)](#)

Channel ARN for stream to be accessed.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

## Response Syntax

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

{
  "stream": {
    "channelArn": "string",
    "health": "string",
    "playbackUrl": "string",
    "startTime": number,
    "state": "string",
    "viewerCount": number
  }
}
```

## Response Elements

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

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

[stream \(p. 25\)](#)

Type: [Stream \(p. 65\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **ChannelNotBroadcasting**

HTTP Status Code: 404

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ValidationException**

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](#)



# GetStreamKey

Gets stream-key information for a specified ARN.

## Request Syntax

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

{
  "arn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### arn (p. 27)

ARN for the stream key to be retrieved.

Type: String

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

Pattern: ^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+\$

Required: Yes

## Response Syntax

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

{
  "streamKey": {
    "arn": "string",
    "channelArn": "string",
    "tags": {
      "string" : "string"
    },
    "value": "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.

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

Type: [StreamKey \(p. 67\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ValidationException**

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](#)

# ImportPlaybackKeyPair

Imports the public portion of a new key pair and returns its `arn` and `fingerprint`. The `privateKey` can then be used to generate viewer authorization tokens, to grant viewers access to authorized channels. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

## Request Syntax

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

{
  "name": "string",
  "publicKeyMaterial": "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.

### **name** (p. 29)

An arbitrary string (a nickname) assigned to a playback key pair that helps the customer identify that resource. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

### **publicKeyMaterial** (p. 29)

The public portion of a customer-generated key pair.

Type: String

Required: Yes

### **tags** (p. 29)

Any tags provided with the request are added to the playback key pair tags.

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

## Response Syntax

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

{
  "keyPair": {
    "arn": "string",
    "fingerprint": "string",
    "name": "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.

### **keyPair** (p. 30)

Type: [PlaybackKeyPair](#) (p. 62) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 74).

### **AccessDeniedException**

HTTP Status Code: 403

### **ConflictException**

HTTP Status Code: 409

### **PendingVerification**

HTTP Status Code: 403

### **ServiceQuotaExceededException**

HTTP Status Code: 402

### **ValidationException**

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](#)

## ListChannels

Gets summary information about all channels in your account, in the AWS region where the API request is processed. This list can be filtered to match a specified string.

### Request Syntax

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

{
  "filterByName": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

### URI Request Parameters

The request does not use any URI parameters.

### Request Body

The request accepts the following data in JSON format.

#### **filterByName** (p. 32)

Filters the channel list to match the specified name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

#### **maxResults** (p. 32)

Maximum number of channels to return.

Type: Integer

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

Required: No

#### **nextToken** (p. 32)

The first channel to retrieve. This is used for pagination; see the `nextToken` response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "channels": [
    {
      "arn": "string",
      "authorized": boolean,
      "latencyMode": "string",
      "name": "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.

### [channels \(p. 32\)](#)

List of the matching channels.

Type: Array of [ChannelSummary \(p. 60\)](#) objects

### [nextToken \(p. 32\)](#)

If there are more channels than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **ValidationException**

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](#)



# ListPlaybackKeyPairs

Gets summary information about playback key pairs. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

## Request Syntax

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

{
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [maxResults \(p. 35\)](#)

The first key pair to retrieve. This is used for pagination; see the `nextToken` response field.

Type: Integer

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

Required: No

### [nextToken \(p. 35\)](#)

Maximum number of key pairs to return.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

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

{
  "keyPairs": [
    {
      "arn": "string",
      "name": "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.

### **keyPairs** (p. 35)

List of key pairs.

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

### **nextToken** (p. 35)

If there are more key pairs than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 74).

### **AccessDeniedException**

HTTP Status Code: 403

### **ValidationException**

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](#)

# ListStreamKeys

Gets summary information about stream keys for the specified channel.

## Request Syntax

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

{
  "channelArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **channelArn** (p. 37)

Channel ARN used to filter the list.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

### **maxResults** (p. 37)

Maximum number of streamKeys to return.

Type: Integer

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

Required: No

### **nextToken** (p. 37)

The first stream key to retrieve. This is used for pagination; see the `nextToken` response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

```
HTTP/1.1 200
```

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

```
{
  "nextToken": "string",
  "streamKeys": [
    {
      "arn": "string",
      "channelArn": "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.

### [nextToken \(p. 37\)](#)

If there are more stream keys than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### [streamKeys \(p. 37\)](#)

List of stream keys.

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ValidationException**

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](#)

# ListStreams

Gets summary information about live streams in your account, in the AWS region where the API request is processed.

## Request Syntax

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

{
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

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

Maximum number of streams to return.

Type: Integer

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

Required: No

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

The first stream to retrieve. This is used for pagination; see the `nextToken` response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

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

{
  "nextToken": "string",
  "streams": [
    {
      "channelArn": "string",
      "health": "string",
      "startTime": number,
      "state": "string",
    }
  ]
}
```

```
    "viewerCount": number
  }
]
}
```

## Response Elements

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

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

### **nextToken** (p. 40)

If there are more streams than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### **streams** (p. 40)

List of streams.

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

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 74).

### **AccessDeniedException**

HTTP Status Code: 403

## 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](#)

# ListTagsForResource

Gets information about AWS tags for the specified ARN.

## Request Syntax

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

{
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### **resourceArn** (p. 42)

The ARN of the resource to be retrieved.

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### **maxResults** (p. 42)

Maximum number of tags to return.

Type: Integer

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

Required: No

### **nextToken** (p. 42)

The first tag to retrieve. This is used for pagination; see the `nextToken` response field.

Type: String

Required: No

## Response Syntax

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



```
{
  "nextToken": "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.

### **nextToken** (p. 42)

If there are more tags than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

### **tags** (p. 42)

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 74).

### **InternalServerErrorException**

HTTP Status Code: 500

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ValidationException**

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](#)

# PutMetadata

Inserts metadata into the active stream of the specified channel. A maximum of 5 requests per second per channel is allowed, each with a maximum 1 KB payload. (If 5 TPS is not sufficient for your needs, we recommend batching your data into a single PutMetadata call.) Also see [Embedding Metadata within a Video Stream](#) in the *Amazon IVS User Guide*.

## Request Syntax

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

{
  "channelArn": "string",
  "metadata": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **channelArn** (p. 45)

ARN of the channel into which metadata is inserted. This channel must have an active stream.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

### **metadata** (p. 45)

Metadata to insert into the stream. Maximum: 1 KB per request.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **ChannelNotBroadcasting**

HTTP Status Code: 404

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ThrottlingException**

HTTP Status Code: 429

### **ValidationException**

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](#)

# StopStream

Disconnects the incoming RTMPS stream for the specified channel. Can be used in conjunction with [DeleteStreamKey \(p. 19\)](#) to prevent further streaming to a channel.

## Note

Many streaming client-software libraries automatically reconnect a dropped RTMPS session, so to stop the stream permanently, you may want to first revoke the `streamKey` attached to the channel.

## Request Syntax

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

{
  "channelArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [channelArn \(p. 47\)](#)

ARN of the channel for which the stream is to be stopped.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

**ChannelNotBroadcasting**

HTTP Status Code: 404

**ResourceNotFoundException**

HTTP Status Code: 404

**StreamUnavailable**

HTTP Status Code: 503

**ValidationException**

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](#)

# TagResource

Adds or updates tags for the AWS resource with the specified ARN.

## Request Syntax

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

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

## URI Request Parameters

The request uses the following URI parameters.

### **resourceArn** (p. 49)

ARN of the resource for which tags are to be added or updated.

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### **tags** (p. 49)

Array of tags to be added or updated.

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **InternalServerErrorException**

HTTP Status Code: 500

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ValidationException**

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](#)



# UntagResource

Removes tags from the resource with the specified ARN.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### **resourceArn** (p. 51)

ARN of the resource for which tags are to be removed.

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+$`

Required: Yes

### **tagKeys** (p. 51)

Array of tags to be removed.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

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 \(p. 74\)](#).

### **InternalServerErrorException**

HTTP Status Code: 500

**ResourceNotFoundException**

HTTP Status Code: 404

**ValidationException**

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](#)

# UpdateChannel

Updates a channel's configuration. This does not affect an ongoing stream of this channel. You must stop and restart the stream for the changes to take effect.

## Request Syntax

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

{
  "arn": "string",
  "authorized": boolean,
  "latencyMode": "string",
  "name": "string",
  "type": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### **arn** (p. 53)

ARN of the channel to be updated.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: Yes

### **authorized** (p. 53)

Whether the channel is authorized. Default: `false`.

Type: Boolean

Required: No

### **latencyMode** (p. 53)

Channel latency mode. Default: `LOW`.

Type: String

Valid Values: `NORMAL` | `LOW`

Required: No

### **name** (p. 53)

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

### [type \(p. 53\)](#)

Channel type, which determines the allowable resolution and bitrate. *If you exceed the allowable resolution or bitrate, the stream probably will disconnect immediately.* Valid values:

- **STANDARD**: Multiple qualities are generated from the original input, to automatically give viewers the best experience for their devices and network conditions. Vertical resolution can be up to 1080 and bitrate can be up to 8.5 Mbps.
- **BASIC**: Amazon IVS delivers the original input to viewers. The viewer's video-quality choice is limited to the original input. Vertical resolution can be up to 480 and bitrate can be up to 1.5 Mbps.

Default: STANDARD.

Type: String

Valid Values: BASIC | STANDARD

Required: No

## Response Syntax

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

{
  "channel": {
    "arn": "string",
    "authorized": boolean,
    "ingestEndpoint": "string",
    "latencyMode": "string",
    "name": "string",
    "playbackUrl": "string",
    "tags": {
      "string" : "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.

### [channel \(p. 54\)](#)

Object specifying a channel.

Type: [Channel \(p. 58\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 74\)](#).

### **AccessDeniedException**

HTTP Status Code: 403

### **ConflictException**

HTTP Status Code: 409

### **PendingVerification**

HTTP Status Code: 403

### **ResourceNotFoundException**

HTTP Status Code: 404

### **ValidationException**

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 Amazon Interactive Video Service 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:

- [BatchError](#) (p. 57)
- [Channel](#) (p. 58)
- [ChannelSummary](#) (p. 60)
- [PlaybackKeyPair](#) (p. 62)
- [PlaybackKeyPairSummary](#) (p. 64)
- [Stream](#) (p. 65)
- [StreamKey](#) (p. 67)
- [StreamKeySummary](#) (p. 69)
- [StreamSummary](#) (p. 70)

## BatchError

Error related to a specific channel, specified by its ARN.

### Contents

#### **arn**

Channel ARN.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+$`

Required: No

#### **code**

Error code.

Type: String

Required: No

#### **message**

Error message, determined by the application.

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

# Channel

Object specifying a channel.

## Contents

### **arn**

Channel ARN.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: No

### **authorized**

Whether the channel is authorized. Default: `false`

Type: Boolean

Required: No

### **ingestEndpoint**

Channel ingest endpoint, part of the definition of an ingest server, used when you set up streaming software.

Type: String

Required: No

### **latencyMode**

Channel latency mode. Default: `LOW`.

Type: String

Valid Values: `NORMAL` | `LOW`

Required: No

### **name**

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

### **playbackUrl**

Channel playback URL.

Type: String

Required: No



### tags

Array of 1-50 maps, each of the form `string:string` (key:value).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

### type

Channel type, which determines the allowable resolution and bitrate. *If you exceed the allowable resolution or bitrate, the stream probably will disconnect immediately.* Valid values:

- **STANDARD**: Multiple qualities are generated from the original input, to automatically give viewers the best experience for their devices and network conditions. Vertical resolution can be up to 1080 and bitrate can be up to 8.5 Mbps.
- **BASIC**: Amazon IVS delivers the original input to viewers. The viewer's video-quality choice is limited to the original input. Vertical resolution can be up to 480 and bitrate can be up to 1.5 Mbps.

Default: STANDARD.

Type: String

Valid Values: BASIC | STANDARD

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](#)

# ChannelSummary

Summary information about a channel.

## Contents

### **arn**

Channel ARN.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: No

### **authorized**

Whether the channel is authorized. Default: `false`

Type: Boolean

Required: No

### **latencyMode**

Channel latency mode. Default: `LOW`.

Type: String

Valid Values: `NORMAL` | `LOW`

Required: No

### **name**

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

### **tags**

Array of 1-50 maps, each of the form `string:string` (key:value).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

## See Also

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

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

# PlaybackKeyPair

A key pair used to sign and validate a playback authorization token.

## Contents

### arn

Key-pair ARN.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+$`

Required: No

### fingerprint

Key-pair identifier.

Type: String

Required: No

### name

An arbitrary string (a nickname) assigned to a playback key pair that helps the customer identify that resource. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

### tags

Array of 1-50 maps, each of the form `string:string` (key:value).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

## See Also

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

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

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

# PlaybackKeyPairSummary

Summary information about a playback key pair.

## Contents

### arn

Key-pair ARN.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+$`

Required: No

### name

An arbitrary string (a nickname) assigned to a playback key pair that helps the customer identify that resource. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^[a-zA-Z0-9-]*$`

Required: No

### tags

Array of 1-50 maps, each of the form `string:string` (key:value).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

## See Also

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

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

# Stream

Specifies a live video stream that has been ingested and distributed.

## Contents

### **channelArn**

Channel ARN for the stream.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: No

### **health**

The stream's health.

Type: String

Valid Values: `HEALTHY` | `STARVING` | `UNKNOWN`

Required: No

### **playbackUrl**

URL of the video master manifest, required by the video player to play the HLS stream.

Type: String

Required: No

### **startTime**

ISO-8601 formatted timestamp of the stream's start.

Type: Timestamp

Required: No

### **state**

The stream's state.

Type: String

Valid Values: `LIVE` | `OFFLINE`

Required: No

### **viewerCount**

Number of current viewers of the stream.

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



# StreamKey

Object specifying a stream key.

## Contents

### **arn**

Stream-key ARN.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+$`

Required: No

### **channelArn**

Channel ARN for the stream.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: No

### **tags**

Array of 1-50 maps, each of the form `string:string` (key:value).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

### **value**

Stream-key value.

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

- [AWS SDK for Ruby V3](#)

# StreamKeySummary

Summary information about a stream key.

## Contents

### **arn**

Stream-key ARN.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+$`

Required: No

### **channelArn**

Channel ARN for the stream.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: No

### **tags**

Array of 1-50 maps, each of the form `string:string` (key:value).

Type: String to string map

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

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

Value Length Constraints: Maximum length of 256.

Required: No

## See Also

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

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

# StreamSummary

Summary information about a stream.

## Contents

### **channelArn**

Channel ARN for the stream.

Type: String

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

Pattern: `^arn:aws:[is]vs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+$`

Required: No

### **health**

The stream's health.

Type: String

Valid Values: `HEALTHY` | `STARVING` | `UNKNOWN`

Required: No

### **startTime**

ISO-8601 formatted timestamp of the stream's start.

Type: Timestamp

Required: No

### **state**

The stream's state.

Type: String

Valid Values: `LIVE` | `OFFLINE`

Required: No

### **viewerCount**

Number of current viewers of the stream.

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 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

**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