



API Reference

# AWS User Notifications



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# AWS User Notifications: API Reference

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# Welcome

The *AWS User Notifications API Reference* provides descriptions, API request parameters, and the JSON response for each of the User Notification API actions.

User Notification control APIs are currently available in US East (Virginia) - us-east-1.

[GetNotificationEvent](#) and [ListNotificationEvents](#) APIs are currently available in [commercial partition Regions](#) and only return notifications stored in the same Region in which they're called.

The User Notifications console can only be used in US East (Virginia). Your data however, is stored in each Region chosen as a [notification hub](#) in addition to US East (Virginia).

This document was last published on November 22, 2024.

# Actions

The following actions are supported:

- [AssociateChannel](#)
- [CreateEventRule](#)
- [CreateNotificationConfiguration](#)
- [DeleteEventRule](#)
- [DeleteNotificationConfiguration](#)
- [DeregisterNotificationHub](#)
- [DisassociateChannel](#)
- [GetEventRule](#)
- [GetNotificationConfiguration](#)
- [GetNotificationEvent](#)
- [ListChannels](#)
- [ListEventRules](#)
- [ListNotificationConfigurations](#)
- [ListNotificationEvents](#)
- [ListNotificationHubs](#)
- [ListTagsForResource](#)
- [RegisterNotificationHub](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateEventRule](#)
- [UpdateNotificationConfiguration](#)

# AssociateChannel

Associates a delivery [Channel](#) with a particular NotificationConfiguration. Supported Channels include AWS Chatbot, the AWS Console Mobile Application, and emails (notifications-contacts).

## Request Syntax

```
POST /channels/associate/arn HTTP/1.1
Content-type: application/json

{
  "notificationConfigurationArn": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [arn](#)

The Amazon Resource Name (ARN) of the Channel to associate with the NotificationConfiguration.

Supported ARNs include AWS Chatbot, the Console Mobile Application, and notifications-contacts.

Pattern: `arn:aws:(chatbot|consoleapp|notifications-contacts):[a-zA-Z0-9-]*:[0-9]{12}:[a-zA-Z0-9-_.@]+/[a-zA-Z0-9/_.@:-]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### [notificationConfigurationArn](#)

The ARN of the NotificationConfiguration to associate with the Channel.

Type: String

Pattern: arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}

Required: Yes

## Response Syntax

```
HTTP/1.1 201
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response with an empty HTTP body.

## Errors

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

### AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ServiceQuotaExceededException

Request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

# CreateEventRule

Creates an [EventRule](#) that is associated with a specified Notification Configuration.

## Request Syntax

```
POST /event-rules HTTP/1.1
Content-type: application/json

{
  "eventPattern": "string",
  "eventType": "string",
  "notificationConfigurationArn": "string",
  "regions": [ "string" ],
  "source": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### eventPattern

An additional event pattern used to further filter the events this EventRule receives.

For more information, see [Amazon EventBridge event patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

### eventType

The event type to match.

Must match one of the valid Amazon EventBridge event types. For example, EC2 Instance State-change Notification and Amazon CloudWatch Alarm State Change. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Type: String

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

Pattern: (`[a-zA-Z0-9 \-\\(\)]`)+

Required: Yes

### notificationConfigurationArn

The Amazon Resource Name (ARN) of the NotificationConfiguration associated with this EventRule.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

### regions

A list of AWS Regions that send events to this EventRule.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: (`[a-z]{1,2}`)-(`[a-z]{1,15}`-)+(`[0-9]`)

Required: Yes

### source

The matched event source.

Must match one of the valid EventBridge sources. Only AWS service sourced events are supported. For example, `aws.ec2` and `aws.cloudwatch`. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.



Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `aws . ([a-z0-9\-]+)`

Required: Yes

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "arn": "string",
  "notificationConfigurationArn": "string",
  "statusSummaryByRegion": {
    "string" : {
      "reason": "string",
      "status": "string"
    }
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### [arn](#)

The ARN of the resource.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}/rule/[a-z0-9]{27}`

### [notificationConfigurationArn](#)

The ARN of a NotificationConfiguration.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

### statusSummaryByRegion

A list of an EventRule's status by Region. Regions are mapped to EventRuleStatusSummary.

Type: String to [EventRuleStatusSummary](#) object map

Key Length Constraints: Minimum length of 2. Maximum length of 25.

Key Pattern: `([a-z]{1,2})-([a-z]{1,15}-)+([0-9])`

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

# CreateNotificationConfiguration

Creates a new NotificationConfiguration.

## Request Syntax

```
POST /notification-configurations HTTP/1.1
Content-type: application/json

{
  "aggregationDuration": "string",
  "description": "string",
  "name": "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.

### aggregationDuration

The aggregation preference of the NotificationConfiguration.

- Values:
  - LONG
    - Aggregate notifications for long periods of time (12 hours).
  - SHORT
    - Aggregate notifications for short periods of time (5 minutes).
  - NONE
    - Don't aggregate notifications.

No delay in delivery.

Type: String

Valid Values: LONG | SHORT | NONE

Required: No

### description

The description of the NotificationConfiguration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[^\u0001-\u001F\u007F-\u009F]*`

Required: Yes

### name

The name of the NotificationConfiguration. Supports RFC 3986's unreserved characters.

Type: String

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

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

Required: Yes

### tags

A map of tags assigned to a resource. A tag is a string-to-string map of key-value pairs.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Pattern: `(?!aws:).{1,128}`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "arn": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### arn

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

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

### status

The status of this NotificationConfiguration.

The status should always be INACTIVE when part of the CreateNotificationConfiguration response.

- Values:
  - ACTIVE
    - All EventRules are ACTIVE and any call can be run.
  - PARTIALLY\_ACTIVE
    - Some EventRules are ACTIVE and some are INACTIVE.
    - Any call can be run.
  - INACTIVE
    - All EventRules are INACTIVE and any call can be run.
  - DELETING

- This NotificationConfiguration is being deleted.
- Only GET and LIST calls can be run.

Type: String

Valid Values: ACTIVE | PARTIALLY\_ACTIVE | INACTIVE | DELETING

## Errors

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

### AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ServiceQuotaExceededException

Request would cause a service quota to be exceeded.

HTTP Status Code: 402

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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



# DeleteEventRule

Deletes an EventRule.

## Request Syntax

```
DELETE /event-rules/arn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) of the EventRule to delete.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}/rule/[a-z0-9]{27}`

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

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

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

# DeleteNotificationConfiguration

Deletes a NotificationConfiguration.

## Request Syntax

```
DELETE /notification-configurations/arn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [arn](#)

The Amazon Resource Name (ARN) of the NotificationConfiguration to delete.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

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**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

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

# DeregisterNotificationHub

Deregisters a NotificationHub in the specified Region.

## Note

You can't deregister the last NotificationHub in the account. NotificationEvents stored in the deregistered NotificationHub are no longer be visible. Recreating a new NotificationHub in the same Region restores access to those NotificationEvents.

## Request Syntax

```
DELETE /notification-hubs/notificationHubRegion HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### notificationHubRegion

The NotificationHub Region.

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: (`[a-z]{1,2}`)-(`[a-z]{1,15}`-)+(`[0-9]`)

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
```

```
"notificationHubRegion": "string",
"statusSummary": {
  "reason": "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.

### notificationHubRegion

The NotificationHub Region.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: ([a-z]{1,2})-([a-z]{1,15}-)+([0-9])

### statusSummary

NotificationHub status information.

Type: [NotificationHubStatusSummary](#) object

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409



## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# DisassociateChannel

Disassociates a Channel from a specified NotificationConfiguration. Supported Channels include AWS Chatbot, the AWS Console Mobile Application, and emails (notifications-contacts).

## Request Syntax

```
POST /channels/disassociate/arn HTTP/1.1
Content-type: application/json

{
  "notificationConfigurationArn": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) of the Channel to disassociate.

Pattern: `arn:aws:(chatbot|consoleapp|notifications-contacts):[a-zA-Z0-9-]*:[0-9]{12}:[a-zA-Z0-9-_.@]+/[a-zA-Z0-9/_.-@:-]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### notificationConfigurationArn

The ARN of the NotificationConfiguration to disassociate.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

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

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# GetEventRule

Returns a specified EventRule.

## Request Syntax

```
GET /event-rules/arn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) of the EventRule to return.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}/rule/[a-z0-9]{27}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "creationTime": "string",
  "eventPattern": "string",
  "eventType": "string",
  "managedRules": [ "string" ],
  "notificationConfigurationArn": "string",
  "regions": [ "string" ],
  "source": "string",
```

```
"statusSummaryByRegion": {
  "string" : {
    "reason": "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.

### arn

The ARN of the resource.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}/rule/[a-z0-9]{27}`

### creationTime

The date when the EventRule was created.

Type: Timestamp

### eventPattern

An additional event pattern used to further filter the events this EventRule receives.

For more information, see [Amazon EventBridge event patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 4096.

### eventType

The event type to match.

Must match one of the valid Amazon EventBridge event types. For example, EC2 Instance State-change Notification and Amazon CloudWatch Alarm State Change. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Type: String

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

Pattern: (`[a-zA-Z0-9 \-\(\)]`)+

### managedRules

A list of managed rules from EventBridge that are associated with this EventRule.

#### Note

These are created by AWS User Notifications within your account so this EventRule functions.

Type: Array of strings

Pattern: `arn:aws:events:[a-z-\d]{2,25}:\d{12}:rule\[a-zA-Z-\d]{1,1024}`

### notificationConfigurationArn

The ARN of a NotificationConfiguration.

Type: String

Pattern: `arn:aws:notifications:[0-9]{12}:configuration/[a-z0-9]{27}`

### regions

A list of AWS Regions that send events to this EventRule.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: (`[a-z]{1,2}`)-(`[a-z]{1,15}`-)+(`[0-9]`)

## source

The matched event source.

Must match one of the valid EventBridge sources. Only AWS service sourced events are supported. For example, `aws.ec2` and `aws.cloudwatch`. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `aws.([a-z0-9\ -])+`

## statusSummaryByRegion

A list of an EventRule's status by Region. Regions are mapped to EventRuleStatusSummary.

Type: String to [EventRuleStatusSummary](#) object map

Key Length Constraints: Minimum length of 2. Maximum length of 25.

Key Pattern: `([a-z]{1,2})-([a-z]{1,15}-)+([0-9])`

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404



## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# GetNotificationConfiguration

Returns a specified NotificationConfiguration.

## Request Syntax

```
GET /notification-configurations/arn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) of the NotificationConfiguration to return.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "aggregationDuration": "string",
  "arn": "string",
  "creationTime": "string",
  "description": "string",
  "name": "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.

### aggregationDuration

The aggregation preference of the NotificationConfiguration.

- Values:
  - LONG
    - Aggregate notifications for long periods of time (12 hours).
  - SHORT
    - Aggregate notifications for short periods of time (5 minutes).
  - NONE
    - Don't aggregate notifications.

No delay in delivery.

Type: String

Valid Values: LONG | SHORT | NONE

### arn

The ARN of the resource.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

### creationTime

The creation time of the NotificationConfiguration.

Type: Timestamp

### description

The description of the NotificationConfiguration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[^\u0001-\u001F\u007F-\u009F]*`

## name

The name of the NotificationConfiguration.

Type: String

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

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

## status

The status of this NotificationConfiguration.

The status should always be INACTIVE when part of the CreateNotificationConfiguration response.

- Values:

- ACTIVE
  - All EventRules are ACTIVE and any call can be run.
- PARTIALLY\_ACTIVE
  - Some EventRules are ACTIVE and some are INACTIVE.
  - Any call can be run.
- INACTIVE
  - All EventRules are INACTIVE and any call can be run.
- DELETING
  - This NotificationConfiguration is being deleted. Only GET and LIST calls can be run.
  - Only GET and LIST calls can be run.

Type: String

Valid Values: ACTIVE | PARTIALLY\_ACTIVE | INACTIVE | DELETING

## Errors

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

### AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

# GetNotificationEvent

Returns a specified NotificationEvent.

## Important

User Notifications stores notifications in the individual Regions you register as notification hubs and the Region of the source event rule. GetNotificationEvent only returns notifications stored in the same Region in which the action is called. User Notifications doesn't backfill notifications to new Regions selected as notification hubs. For this reason, we recommend that you make calls in your oldest registered notification hub. For more information, see [Notification hubs](#) in the *AWS User Notifications User Guide*.

## Request Syntax

```
GET /notification-events/arn?locale=locale HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) of the NotificationEvent to return.

Pattern: `arn:[- .a-z0-9]{1,63}:notifications:[- .a-z0-9]{1,63}:[0-9]{12}:configuration/[a-z0-9]{27}/event/[a-z0-9]{27}`

Required: Yes

### locale

The locale code of the language used for the retrieved NotificationEvent. The default locale is English en\_US.

Valid Values: `de_DE` | `en_CA` | `en_US` | `en_UK` | `es_ES` | `fr_CA` | `fr_FR` | `id_ID` | `it_IT` | `ja_JP` | `ko_KR` | `pt_BR` | `tr_TR` | `zh_CN` | `zh_TW`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "content": {
    "aggregateNotificationEventArn": "string",
    "aggregationEventType": "string",
    "endTime": "string",
    "eventStatus": "string",
    "id": "string",
    "media": [
      {
        "caption": "string",
        "mediaId": "string",
        "type": "string",
        "url": "string"
      }
    ],
    "messageComponents": {
      "completeDescription": "string",
      "dimensions": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "headline": "string",
      "paragraphSummary": "string"
    },
    "notificationType": "string",
    "schemaVersion": "string",
    "sourceEventDetailUrl": "string",
    "sourceEventDetailUrlDisplayText": "string",
    "sourceEventMetadata": {
      "eventOccurrenceTime": "string",
      "eventOriginRegion": "string",
```

```
    "eventType": "string",
    "eventTypeVersion": "string",
    "relatedAccount": "string",
    "relatedResources": [
      {
        "arn": "string",
        "detailUrl": "string",
        "id": "string",
        "tags": [ "string" ]
      }
    ],
    "source": "string",
    "sourceEventId": "string"
  },
  "startTime": "string",
  "textParts": {
    "string" : {
      "displayText": "string",
      "textByLocale": {
        "string" : "string"
      },
      "type": "string",
      "url": "string"
    }
  }
},
"creationTime": "string",
"notificationConfigurationArn": "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.

### arn

The ARN of the resource.

Type: String

Pattern: arn:[- .a-z0-9]{1,63}:notifications:[- .a-z0-9]{1,63}::[0-9]{12}:configuration/[a-z0-9]{27}/event/[a-z0-9]{27}



## content

The content of the NotificationEvent.

Type: [NotificationEvent](#) object

## creationTime

The creation time of the NotificationEvent.

Type: Timestamp

## notificationConfigurationArn

The ARN of the NotificationConfiguration.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# ListChannels

Returns a list of Channels for a NotificationConfiguration.

## Request Syntax

```
GET /channels?  
maxResults=maxResults&nextToken=nextToken&notificationConfigurationArn=notificationConfigurationArn  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results to be returned in this call. The default value is 20.

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

### nextToken

The start token for paginated calls. Retrieved from the response of a previous ListNotificationEvents call. NextToken uses Base64 encoding.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/=]+`

### notificationConfigurationArn

The Amazon Resource Name (ARN) of the NotificationConfiguration.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "channels": [ "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

A list of Channels.

Type: Array of strings

Pattern: `arn:aws:(chatbot|consoleapp|notifications-contacts):[a-zA-Z0-9-]*:[0-9]{12}:[a-zA-Z0-9-_.@]+/[a-zA-Z0-9/_.@:-]+`

### nextToken

A pagination token. If a non-null pagination token is returned in a result, pass its value in another request to retrieve more entries.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/=]+`

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

# ListEventRules

Returns a list of EventRules according to specified filters, in reverse chronological order (newest first).

## Request Syntax

```
GET /event-rules?  
maxResults=maxResults&nextToken=nextToken&notificationConfigurationArn=notificationConfigurationArn  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of results to be returned in this call. The default value is 20.

Valid Range: Minimum value of 1. Maximum value of 1000.

### [nextToken](#)

The start token for paginated calls. Retrieved from the response of a previous ListEventRules call. Next token uses Base64 encoding.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/ = ]+`

### [notificationConfigurationArn](#)

The Amazon Resource Name (ARN) of the NotificationConfiguration.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "eventRules": [
    {
      "arn": "string",
      "creationTime": "string",
      "eventPattern": "string",
      "eventType": "string",
      "managedRules": [ "string" ],
      "notificationConfigurationArn": "string",
      "regions": [ "string" ],
      "source": "string",
      "statusSummaryByRegion": {
        "string" : {
          "reason": "string",
          "status": "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.

### eventRules

A list of EventRules.

Type: Array of [EventRuleStructure](#) objects

### nextToken

A pagination token. If a non-null pagination token is returned in a result, pass its value in another request to retrieve more entries.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/=]+`

## Errors

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

### AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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



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

# ListNotificationConfigurations

Returns a list of abbreviated NotificationConfigurations according to specified filters, in reverse chronological order (newest first).

## Request Syntax

```
GET /notification-configurations?  
channelArn=channelArn&eventRuleSource=eventRuleSource&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### channelArn

The Amazon Resource Name (ARN) of the Channel to match.

Pattern: `arn:aws:(chatbot|consoleapp|notifications-contacts):[a-zA-Z0-9-]*:[0-9]{12}:[a-zA-Z0-9-_.@]+/[a-zA-Z0-9/_.@:-]+`

### eventRuleSource

The matched event source.

Must match one of the valid EventBridge sources. Only AWS service sourced events are supported. For example, `aws.ec2` and `aws.cloudwatch`. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `aws.([a-z0-9\ -])+`

### maxResults

The maximum number of results to be returned in this call. Defaults to 20.

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

### nextToken

The start token for paginated calls. Retrieved from the response of a previous ListEventRules call. Next token uses Base64 encoding.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/=]+`

## status

The NotificationConfiguration status to match.

- Values:
  - ACTIVE
    - All EventRules are ACTIVE and any call can be run.
  - PARTIALLY\_ACTIVE
    - Some EventRules are ACTIVE and some are INACTIVE. Any call can be run.
    - Any call can be run.
  - INACTIVE
    - All EventRules are INACTIVE and any call can be run.
  - DELETING
    - This NotificationConfiguration is being deleted.
    - Only GET and LIST calls can be run.

Valid Values: ACTIVE | PARTIALLY\_ACTIVE | INACTIVE | DELETING

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "notificationConfigurations": [
    {
      "aggregationDuration": "string",
      "arn": "string",
      "creationTime": "string",
      "description": "string",
```

```
    "name": "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.

### nextToken

A pagination token. If a non-null pagination token is returned in a result, pass its value in another request to retrieve more entries.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/ = ]+`

### notificationConfigurations

The NotificationConfigurations in the account.

Type: Array of [NotificationConfigurationStructure](#) objects

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# ListNotificationEvents

Returns a list of NotificationEvents according to specified filters, in reverse chronological order (newest first).

## Important

User Notifications stores notifications in the individual Regions you register as notification hubs and the Region of the source event rule. ListNotificationEvents only returns notifications stored in the same Region in which the action is called. User Notifications doesn't backfill notifications to new Regions selected as notification hubs. For this reason, we recommend that you make calls in your oldest registered notification hub. For more information, see [Notification hubs](#) in the *AWS User Notifications User Guide*.

## Request Syntax

```
GET /notification-events?  
aggregateNotificationEventArn=aggregateNotificationEventArn&endTime=endTime&includeChildEvents=includeChildEvents  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [aggregateNotificationEventArn](#)

The Amazon Resource Name (ARN) of the aggregatedNotificationEventArn to match.

Pattern: `arn:[- .a-z0-9]{1,63}:notifications:[- .a-z0-9]{1,63}:[0-9]{12}:configuration/[a-z0-9]{27}/event/[a-z0-9]{27}`

### [endTime](#)

Latest time of events to return from this call.

### [includeChildEvents](#)

Include aggregated child events in the result.

## locale

The locale code of the language used for the retrieved NotificationEvent. The default locale is English (en\_US).

Valid Values: de\_DE | en\_CA | en\_US | en\_UK | es\_ES | fr\_CA | fr\_FR | id\_ID  
| it\_IT | ja\_JP | ko\_KR | pt\_BR | tr\_TR | zh\_CN | zh\_TW

## maxResults

The maximum number of results to be returned in this call. Defaults to 20.

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

## nextToken

The start token for paginated calls. Retrieved from the response of a previous ListEventRules call. Next token uses Base64 encoding.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/=]+`

## source

The matched event source.

Must match one of the valid EventBridge sources. Only AWS service sourced events are supported. For example, `aws.ec2` and `aws.cloudwatch`. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `aws.([a-z0-9\-]+)`

## startTime

The earliest time of events to return from this call.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "notificationEvents": [
    {
      "aggregateNotificationEventArn": "string",
      "aggregationEventType": "string",
      "arn": "string",
      "creationTime": "string",
      "notificationConfigurationArn": "string",
      "notificationEvent": {
        "eventStatus": "string",
        "messageComponents": {
          "headline": "string"
        },
        "notificationType": "string",
        "schemaVersion": "string",
        "sourceEventMetadata": {
          "eventOriginRegion": "string",
          "eventType": "string",
          "source": "string"
        }
      },
      "relatedAccount": "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

A pagination token. If a non-null pagination token is returned in a result, pass its value in another request to retrieve more entries.



Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/=]+`

### [notificationEvents](#)

The list of notification events.

Type: Array of [NotificationEventOverview](#) objects

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# ListNotificationHubs

Returns a list of NotificationHubs.

## Request Syntax

```
GET /notification-hubs?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of records to list in a single response.

Valid Range: Fixed value of 3.

### nextToken

A pagination token. Set to null to start listing notification hubs from the start.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/=]+`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "notificationHubs": [
    {
      "creationTime": "string",
```

```
    "lastActivationTime": "string",
    "notificationHubRegion": "string",
    "statusSummary": {
      "reason": "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.

### nextToken

A pagination token. If a non-null pagination token is returned in a result, pass its value in another request to retrieve more entries.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\w+ -/ = ]+`

### notificationHubs

The NotificationHubs in the account.

Type: Array of [NotificationHubOverview](#) objects

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# ListTagsForResource

Returns a list of tags for a specified Amazon Resource Name (ARN).

For more information, see [Tagging your AWS resources](#) in the *Tagging AWS Resources User Guide*.

## Note

This is only supported for NotificationConfigurations.

## Request Syntax

```
GET /tags/arn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) to use to list tags.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

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 list of tags for the specified ARN.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Pattern: (?!aws:).{1,128}

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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



# RegisterNotificationHub

Registers a NotificationHub in the specified Region.

There is a maximum of one NotificationHub per Region. You can have a maximum of 3 NotificationHubs at a time.

## Request Syntax

```
POST /notification-hubs HTTP/1.1
Content-type: application/json

{
  "notificationHubRegion": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### notificationHubRegion

The Region of the NotificationHub.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: (`[a-z]{1,2}`)-(`[a-z]{1,15}`-)+(`[0-9]`)

Required: Yes

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json
```

```
{
  "creationTime": "string",
  "lastActivationTime": "string",
  "notificationHubRegion": "string",
  "statusSummary": {
    "reason": "string",
    "status": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### creationTime

The date the resource was created.

Type: Timestamp

### lastActivationTime

The date the resource was last activated.

Type: Timestamp

### notificationHubRegion

The Region of the NotificationHub.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: ([a-z]{1,2})-([a-z]{1,15}-)+([0-9])

### statusSummary

NotificationHub status information.

Type: [NotificationHubStatusSummary](#) object

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

Request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# TagResource

Tags the resource with a tag key and value.

For more information, see [Tagging your AWS resources](#) in the *Tagging AWS Resources User Guide*.

## Note

This is only supported for NotificationConfigurations.

## Request Syntax

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

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

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) to use to tag a resource.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

A map of tags assigned to a resource. A tag is a string-to-string map of key-value pairs.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Pattern: (?!aws:).{1,128}

Value Length Constraints: Minimum length of 0. 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](#).

### AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

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

# UntagResource

Untags a resource with a specified Amazon Resource Name (ARN).

For more information, see [Tagging your AWS resources](#) in the *Tagging AWS Resources User Guide*.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### [arn](#)

The Amazon Resource Name (ARN) to use to untag a resource.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

### [tagKeys](#)

The tag keys to use to untag a resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Pattern: `(?!aws:).{1,128}`

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](#).

### AccessDeniedException

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# UpdateEventRule

Updates an existing EventRule.

## Request Syntax

```
PUT /event-rules/arn HTTP/1.1
Content-type: application/json
```

```
{
  "eventPattern": "string",
  "regions": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) to use to update the EventRule.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}/rule/[a-z0-9]{27}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### eventPattern

An additional event pattern used to further filter the events this EventRule receives.

For more information, see [Amazon EventBridge event patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

### regions

A list of AWS Regions that sends events to this EventRule.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: ( $[a-z]\{1,2\}$ )-( $[a-z]\{1,15\}$ -)+( $[\0-9]$ )

Required: No

## Response Syntax

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

{
  "arn": "string",
  "notificationConfigurationArn": "string",
  "statusSummaryByRegion": {
    "string" : {
      "reason": "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.

### arn

The Amazon Resource Name (ARN) to use to update the EventRule.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}/rule/[a-z0-9]{27}`

### notificationConfigurationArn

The ARN of the NotificationConfiguration.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

### statusSummaryByRegion

The status of the action by Region.

Type: String to [EventRuleStatusSummary](#) object map

Key Length Constraints: Minimum length of 2. Maximum length of 25.

Key Pattern: `([a-z]{1,2})-([a-z]{1,15}-)+([0-9])`

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

# UpdateNotificationConfiguration

Updates a NotificationConfiguration.

## Request Syntax

```
PUT /notification-configurations/arn HTTP/1.1
Content-type: application/json
```

```
{
  "aggregationDuration": "string",
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### arn

The Amazon Resource Name (ARN) used to update the NotificationConfiguration.

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### aggregationDuration

The status of this NotificationConfiguration.

The status should always be INACTIVE when part of the CreateNotificationConfiguration response.

- Values:
  - ACTIVE
    - All EventRules are ACTIVE and any call can be run.

- **PARTIALLY\_ACTIVE**
  - Some EventRules are ACTIVE and some are INACTIVE. Any call can be run.
  - Any call can be run.
- **INACTIVE**
  - All EventRules are INACTIVE and any call can be run.
- **DELETING**
  - This NotificationConfiguration is being deleted.
  - Only GET and LIST calls can be run.

Type: String

Valid Values: LONG | SHORT | NONE

Required: No

### description

The description of the NotificationConfiguration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[^\u0001-\u001F\u007F-\u009F]*`

Required: No

### name

The name of the NotificationConfiguration.

Type: String

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

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

Required: No

## Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json

{
  "arn": "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.

### arn

The ARN used to update the NotificationConfiguration.

Type: String

Pattern: arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}

## Errors

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

### **AccessDeniedException**

User does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

This exception is thrown when the notification event fails validation.

HTTP Status Code: 400

## **See Also**

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

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

# Data Types

The AWS User Notifications 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:

- [Dimension](#)
- [EventRuleStatusSummary](#)
- [EventRuleStructure](#)
- [MediaElement](#)
- [MessageComponents](#)
- [MessageComponentsSummary](#)
- [NotificationConfigurationStructure](#)
- [NotificationEvent](#)
- [NotificationEventOverview](#)
- [NotificationEventSummary](#)
- [NotificationHubOverview](#)
- [NotificationHubStatusSummary](#)
- [Resource](#)
- [SourceEventMetadata](#)
- [SourceEventMetadataSummary](#)
- [TextPartValue](#)
- [ValidationExceptionField](#)

# Dimension

The key-value pair of properties for an event.

## Contents

### name

The name of the dimension

Type: String

Required: Yes

### value

The value of the dimension.

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](#)

# EventRuleStatusSummary

Describes EventRule status information.

## Contents

### reason

A human-readable reason for EventRuleStatus.

Type: String

Required: Yes

### status

The status of the EventRule.

- Values:
  - ACTIVE
    - The EventRule can process events.
  - INACTIVE
    - The EventRule may be unable to process events.
  - CREATING
    - The EventRule is being created.

Only GET and LIST calls can be run.

- UPDATING
  - The EventRule is being updated.

Only GET and LIST calls can be run.

- DELETING
  - The EventRule is being deleted.

Only GET and LIST calls can be run.

Type: String

Valid Values: ACTIVE | INACTIVE | CREATING | UPDATING | DELETING

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](#)

# EventRuleStructure

Contains a complete list of fields related to an EventRule.

## Contents

### arn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}/rule/[a-z0-9]{27}`

Required: Yes

### creationTime

The creation time of the resource.

Type: Timestamp

Required: Yes

### eventPattern

An additional event pattern used to further filter the events this EventRule receives.

For more information, see [Amazon EventBridge event patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: Yes

### eventType

The event type to match.

Must match one of the valid Amazon EventBridge event types. For example, EC2 Instance State-change Notification and Amazon CloudWatch Alarm State Change. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Type: String

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

Pattern: (`[a-zA-Z0-9 \-\(\)]`)+

Required: Yes

### **managedRules**

A list of Amazon EventBridge Managed Rule ARNs associated with this EventRule.

#### **Note**

These are created by AWS User Notifications within your account so your EventRules can function.

Type: Array of strings

Pattern: `arn:aws:events:[a-z-\d]{2,25}:\d{12}:rule\/[a-zA-Z-\d]{1,1024}`

Required: Yes

### **notificationConfigurationArn**

The ARN for the NotificationConfiguration associated with this EventRule.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

### **regions**

A list of AWS Regions that send events to this EventRule.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: (`[a-z]{1,2}`)-(`[a-z]{1,15}`-)+(`[0-9]`)



Required: Yes

### source

The matched event source.

Must match one of the valid EventBridge sources. Only AWS service sourced events are supported. For example, `aws.ec2` and `aws.cloudwatch`. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `aws.[a-z0-9\-\_]+`

Required: Yes

### statusSummaryByRegion

A list of an EventRule's status by Region. Regions are mapped to EventRuleStatusSummary.

Type: String to [EventRuleStatusSummary](#) object map

Key Length Constraints: Minimum length of 2. Maximum length of 25.

Key Pattern: `([a-z]{1,2})-([a-z]{1,15}-)+([0-9])`

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](#)

# MediaElement

Describes a media element.

## Contents

### caption

The caption of the media.

Type: String

Required: Yes

### mediaId

The unique ID for the media.

Type: String

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

Required: Yes

### type

The type of media.

Type: String

Valid Values: IMAGE

Required: Yes

### url

The url of the media.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2000.

Pattern: (https?)://.\*

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](#)

# MessageComponents

Describes the components of a notification message.

## Contents

### completeDescription

A complete summary with all possible relevant information.

Type: String

Required: No

### dimensions

A list of properties in key-value pairs. Pairs are shown in order of importance from most important to least important. Channels may limit the number of dimensions shown to the notification viewer.

#### Note

Included dimensions, keys, and values are subject to change.

Type: Array of [Dimension](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

### headline

A sentence long summary. For example, titles or an email subject line.

Type: String

Required: No

### paragraphSummary

A paragraph long or multiple sentence summary. For example, AWS Chatbot notifications.

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](#)

# MessageComponentsSummary

Contains the headline message component.

## Contents

### headline

A sentence long summary. For example, titles or an email subject line.

Type: String

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

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](#)

# NotificationConfigurationStructure

Contains the complete list of fields for a NotificationConfiguration.

## Contents

### arn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:aws:notifications::[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

### creationTime

The creation time of the resource.

Type: Timestamp

Required: Yes

### description

The description of the NotificationConfiguration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[^\u0001-\u001F\u007F-\u009F]*`

Required: Yes

### name

The name of the NotificationConfiguration. Supports RFC 3986's unreserved characters.

Type: String

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

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

Required: Yes

### **status**

The status of this NotificationConfiguration.

The status should always be INACTIVE when part of the CreateNotificationConfiguration response.

- Values:
  - ACTIVE
    - All EventRules are ACTIVE and any call can be run.
  - PARTIALLY\_ACTIVE
    - Some EventRules are ACTIVE and some are INACTIVE.
    - Any call can be run.
  - INACTIVE
    - All EventRules are INACTIVE and any call can be run.
  - DELETING
    - This NotificationConfiguration is being deleted. Only GET and LIST calls can be run.
    - Only GET and LIST calls can be run.

Type: String

Valid Values: ACTIVE | PARTIALLY\_ACTIVE | INACTIVE | DELETING

Required: Yes

### **aggregationDuration**

The aggregation preference of the NotificationConfiguration.

- Values:
  - LONG
    - Aggregate notifications for long periods of time (12 hours).
  - SHORT
    - Aggregate notifications for short periods of time (5 minutes).
  - NONE



- Don't aggregate notifications.

No delay in delivery.

Type: String

Valid Values: LONG | SHORT | NONE

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](#)

# NotificationEvent

A NotificationEvent is a notification-focused representation of an event. They contain semantic information used by Channels to create end-user notifications.

## Contents

### id

The unique identifier for a NotificationEvent.

Type: String

Pattern: `[a-z0-9]{27}`

Required: Yes

### media

A list of media elements.

Type: Array of [MediaElement](#) objects

Required: Yes

### messageComponents

Describes the components of a notification message.

Type: [MessageComponents](#) object

Required: Yes

### notificationType

The type of event causing the notification.

- Values:
  - ALERT
    - A notification about an event where something was triggered, initiated, reopened, deployed, or a threshold was breached.
  - WARNING

- A notification about an event where an issue is about to arise. For example, something is approaching a threshold.
- ANNOUNCEMENT
  - A notification about an important event. For example, a step in a workflow or escalation path or that a workflow was updated.
- INFORMATIONAL
  - A notification about informational messages. For example, recommendations, service announcements, or reminders.

Type: String

Valid Values: ALERT | WARNING | ANNOUNCEMENT | INFORMATIONAL

Required: Yes

### **schemaVersion**

The schema version of the Notification Event.

Type: String

Valid Values: v1.0

Required: Yes

### **sourceEventMetadata**

The source event metadata.

Type: [SourceEventMetadata](#) object

Required: Yes

### **textParts**

A list of text values.

Type: String to [TextPartValue](#) object map

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

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

Required: Yes

### **aggregateNotificationEventArn**

If the value of `aggregationEventType` is not `NONE`, this is the Amazon Resource Event (ARN) of the parent aggregate notification.

This is omitted if notification isn't aggregated.

Type: String

Pattern: `arn:[- .a-z0-9]{1,63}:notifications:[- .a-z0-9]{1,63}:[0-9]{12}:configuration/[a-z0-9]{27}/event/[a-z0-9]{27}`

Required: No

### **aggregationEventType**

The `NotificationConfiguration`'s aggregation type.

- Values:
  - `AGGREGATE`
    - The notification event is an aggregate notification. Aggregate notifications summarize grouped events over a specified time period.
  - `CHILD`
    - Some `EventRules` are `ACTIVE` and some are `INACTIVE`. Any call can be run.
  - `NONE`
    - The notification isn't aggregated.

Type: String

Valid Values: `AGGREGATE` | `CHILD` | `NONE`

Required: No

### **endTime**

The end time of the event.

Type: Timestamp

Required: No

## **eventStatus**

The assessed nature of the event.

- Values:
  - HEALTHY
    - All EventRules are ACTIVE and any call can be run.
  - UNHEALTHY
    - Some EventRules are ACTIVE and some are INACTIVE. Any call can be run.

Type: String

Valid Values: HEALTHY | UNHEALTHY

Required: No

## **sourceEventDetailUrl**

The source event URL.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2000.

Pattern: (https?)://.\*

Required: No

## **sourceEventDetailUrlDisplayText**

The detailed URL for the source event.

Type: String

Required: No

## **startTime**

The notification event start time.

Type: Timestamp

Required: No

## See Also

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

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

# NotificationEventOverview

Describes a short summary of a NotificationEvent. This is only used when listing notification events.

## Contents

### arn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:[- .a-z0-9]{1,63}:notifications:[- .a-z0-9]{1,63}:[0-9]{12}:configuration/[a-z0-9]{27}/event/[a-z0-9]{27}`

Required: Yes

### creationTime

The creation time of the NotificationEvent.

Type: Timestamp

Required: Yes

### notificationConfigurationArn

The ARN of the NotificationConfiguration.

Type: String

Pattern: `arn:aws:notifications:[0-9]{12}:configuration/[a-z0-9]{27}`

Required: Yes

### notificationEvent

Refers to a NotificationEventSummary object.

Similar in structure to content in the GetNotificationEvent response.

Type: [NotificationEventSummary](#) object

Required: Yes

### **relatedAccount**

The account name containing the NotificationHub.

Type: String

Pattern: `\d{12}`

Required: Yes

### **aggregateNotificationEventArn**

The ARN of the aggregatedNotificationEventArn to match.

Type: String

Pattern: `arn:[- .a-z0-9]{1,63}:notifications:[- .a-z0-9]{1,63}:[0-9]{12}:configuration/[a-z0-9]{27}/event/[a-z0-9]{27}`

Required: No

### **aggregationEventType**

The NotificationConfiguration's aggregation type.

- Values:
  - AGGREGATE
    - The notification event is an aggregate notification. Aggregate notifications summarize grouped events over a specified time period.
  - CHILD
    - Some EventRules are ACTIVE and some are INACTIVE. Any call can be run.
  - NONE
    - The notification isn't aggregated.

Type: String

Valid Values: AGGREGATE | CHILD | NONE

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](#)

# NotificationEventSummary

Describes a short summary and metadata for a notification event.

## Contents

### eventStatus

The notification event status.

- Values:
  - HEALTHY
    - All EventRules are ACTIVE and any call can be run.
  - UNHEALTHY
    - Some EventRules are ACTIVE and some are INACTIVE. Any call can be run.

Type: String

Valid Values: HEALTHY | UNHEALTHY

Required: Yes

### messageComponents

The message components of a notification event.

Type: [MessageComponentsSummary](#) object

Required: Yes

### notificationType

The type of event causing the notification.

- Values:
  - ALERT
    - A notification about an event where something was triggered, initiated, reopened, deployed, or a threshold was breached.
  - WARNING
    - A notification about an event where an issue is about to arise. For example, something is approaching a threshold.

- **ANNOUNCEMENT**
  - A notification about an important event. For example, a step in a workflow or escalation path or that a workflow was updated.
- **INFORMATIONAL**
  - A notification about informational messages. For example, recommendations, service announcements, or reminders.

Type: String

Valid Values: ALERT | WARNING | ANNOUNCEMENT | INFORMATIONAL

Required: Yes

### **schemaVersion**

The schema version of the Notification Event.

Type: String

Valid Values: v1.0

Required: Yes

### **sourceEventMetadata**

The source event metadata.

Type: [SourceEventMetadataSummary](#) 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](#)

# NotificationHubOverview

Describes an overview of a NotificationHub.

A NotificationHub is an account-level setting used to select the Regions where you want to store, process and replicate your notifications.

## Contents

### creationTime

The date and time the resource was created.

Type: Timestamp

Required: Yes

### notificationHubRegion

The Region of the resource.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: (`[a-z]{1,2}`)-(`[a-z]{1,15}`-)+(`[0-9]`)

Required: Yes

### statusSummary

The status summary of the resource.

Type: [NotificationHubStatusSummary](#) object

Required: Yes

### lastActivationTime

The most recent time this NotificationHub had an ACTIVE status.

Type: Timestamp

Required: No

## See Also

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

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

# NotificationHubStatusSummary

NotificationHub status information.

## Contents

### reason

An Explanation for the current status.

Type: String

Required: Yes

### status

Status information about the NotificationHub.

- Values:
  - ACTIVE
    - Incoming NotificationEvents are replicated to this NotificationHub.
  - REGISTERING
    - The NotificationHub is initializing. A NotificationHub with this status can't be deregistered.
  - DEREGISTERING
    - The NotificationHub is being deleted. You can't register additional NotificationHubs in the same Region as a NotificationHub with this status.

Type: String

Valid Values: ACTIVE | REGISTERING | DEREGISTERING | INACTIVE

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](#)

# Resource

A resource affected by or closely linked to an event.

## Contents

### arn

The Amazon Resource Name (ARN) of the resource. At least one id or ARN is required.

Type: String

Pattern: `arn:[^:]*:[^:]*:[^:]*:.*`

Required: No

### detailUrl

The URL to the resource's detail page. If a detail page URL is unavailable, it is the URL to an informational page that describes the resource's type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2000.

Pattern: `(https?)://.*`

Required: No

### id

The unique identifier for the resource.

At least one id or ARN is required.

Type: String

Required: No

### tags

A map of tags assigned to a resource. A tag is a string-to-string map of key-value pairs.

Type: Array of strings



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

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

Required: No

## See Also

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

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

# SourceEventMetadata

Describes the metadata for a source event.

For more information, see [Event structure reference](#) in the *Amazon EventBridge User Guide*.

## Contents

### eventOccurrenceTime

The date and time the source event occurred. This is based on the Source Event.

Type: Timestamp

Required: Yes

### eventType

The type of event. For example, an Amazon CloudWatch state change.

Type: String

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

Required: Yes

### eventTypeVersion

The version of the type of event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3.

Pattern: [0-9. ]+

Required: Yes

### relatedAccount

The Primary AWS account of Source Event

Type: String

Pattern: [0-9]{12}

Required: Yes

### **relatedResources**

A list of resources related to this NotificationEvent.

Type: Array of [Resource](#) objects

Required: Yes

### **source**

The AWS service the event originates from. For example `aws.cloudwatch`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `aws.([a-z0-9\-]+)`

Required: Yes

### **sourceEventId**

The source event id.

Type: String

Required: Yes

### **eventOriginRegion**

The Region the event originated from.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32.

Pattern: `([a-z]{1,2})-([a-z]{1,15}-)+([0-9])`

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](#)

# SourceEventMetadataSummary

Contains metadata about the event that caused the NotificationEvent. For other specific values, see sourceEventMetadata.

## Contents

### eventType

The event type to match.

Must match one of the valid Amazon EventBridge event types. For example, EC2 Instance State-change Notification and Amazon CloudWatch Alarm State Change. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Type: String

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

Required: Yes

### source

The matched event source.

Must match one of the valid EventBridge sources. Only AWS service sourced events are supported. For example, `aws.ec2` and `aws.cloudwatch`. For more information, see [Event delivery from AWS services](#) in the *Amazon EventBridge User Guide*.

Type: String

Required: Yes

### eventOriginRegion

The Region where the notification originated.

Unavailable for aggregated notifications.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32.

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](#)

# TextPartValue

Describes text information objects containing fields that determine how text part objects are composed.

## Contents

### type

The type of text part. Determines the usage of all other fields and whether or not they're required.

Type: String

Valid Values: LOCALIZED\_TEXT | PLAIN\_TEXT | URL

Required: Yes

### displayText

A short single line description of the link. Must be hyperlinked with the URL itself.

Used for text parts with the type URL.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### textByLocale

A map of locales to the text in that locale.

Type: String to string map

Valid Keys: de\_DE | en\_CA | en\_US | en\_UK | es\_ES | fr\_CA | fr\_FR | id\_ID | it\_IT | ja\_JP | ko\_KR | pt\_BR | tr\_TR | zh\_CN | zh\_TW

Required: No

### url

The URL itself.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2000.

Pattern: (https?)://.\*

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](#)



# ValidationExceptionField

Stores information about a field passed inside a request that resulted in an exception.

## Contents

### message

A message with the reason for the validation exception error.

Type: String

Required: Yes

### name

The field name where the invalid entry was detected.

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](#)

# 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