

# Hootsuite Authenticate a Connector Instance

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You can authenticate with Hootsuite to create your own instance of the Hootsuite connector through the UI or through APIs. Once authenticated, you can use the connector instance to access the different functionality offered by the Hootsuite platform.

## Authenticate Through the UI

Use the UI to authenticate with Hootsuite and create a connector instance. Because you authenticate with Hootsuite via OAuth 2.0, all you need to do is add a name for the instance. After you create the instance, you'll log in to Hootsuite to authorize SAP Cloud Platform Open Connectors access to your account. For more information about authenticating a connector instance, see [Authenticate a Connector Instance \(UI\)](#).

After successfully authenticating, we give you several options for next steps. [Make requests using the API docs](#) associated with the instance, [map the instance to a common resource](#), or [use it in a formula template](#).

## Authenticate Through API

Authenticating through API is similar to authenticating via the UI. Instead of clicking and typing through a series of buttons, text boxes, and menus, you will instead send a request to our `/instances` endpoint. The end result is the same, though: an authenticated connector instance with a **token** and **id**.

Authenticating through API follows a multi-step OAuth 2.0 process that involves:

- [Getting a redirect URL](#). This URL sends users to the vendor to log in to their account.
- [Authenticating users and receiving the authorization grant code](#). After the user logs in, the vendor makes a callback to the specified url with an authorization grant code.
- [Authenticating the connector instance](#). Using the authorization code from the vendor, authenticate with the vendor to create a connector instance at SAP Cloud Platform Open Connectors .

# Getting a Redirect URL

Use the following API call to request a redirect URL where the user can authenticate with the API provider. Replace `{keyOrId}` with the connector key, `hootsuite`.

```
curl -X GET /elements/{keyOrId}/oauth/url?apiKey=&apiSecret=&callbackUrl=&siteAddress=
```

## Query Parameters

Query Parameter	Description
apiKey	The key obtained from registering your app with the provider. This is the <b>REST API Client ID</b> that you recorded in the <a href="#">API Provider Setup</a> section.
apiSecret	The secret obtained from registering your app with the provider. This is the <b>REST API Client Secret</b> that you recorded in the <a href="#">API Provider Setup</a> section.
callbackUrl	The URL that will receive the code from the vendor to be used to create a connector instance.

## Example cURL

```
curl -X GET \
  'https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/elements/hootsuite/oauth/url?apiKey=fake_api_key&apiSecret=fake_api_secret&callbackUrl=https://www.mycoolapp.com/auth&state=hootsuite' \
```

## Example Response

Use the `oauthUrl` in the response to allow users to authenticate with the vendor.

```
{
  "element": "hootsuite",
  "oauthUrl": "https://apis.hootsuite.com/auth/oauth/v2/authorize?scope=oob&response_type=code&redirect_uri=https%3A%2F%2Fhttpbin.org%2Fget&state=hootsuite&client_id=l7xxlcf795a3144b42ac96cbb3f301af6b7b"
}
```

# Authenticating Users and Receiving the Authorization

# Grant Code

Provide the response from the previous step to the users. After they authenticate, Hootsuite provides the following information in the response:

- code
- state

Response Parameter	Description
code	The Authorization Grant Code required by SAP Cloud Platform Open Connectors to retrieve the OAuth access and refresh tokens from the endpoint.
state	A customizable identifier, typically the connector key ( <code>hootsuite</code> ).

**Note:** If the user denies authentication and/or authorization, there will be a query string parameter called `error` instead of the `code` parameter. In this case, your application can handle the error gracefully.

## Authenticating the Connector Instance

Use the `/instances` endpoint to authenticate with Hootsuite and create a connector instance. If you are configuring events, see the [Events section](#).

**Note:** The endpoint returns a connector instance token and id upon successful completion. Retain the token and id for all subsequent requests involving this connector instance.

To create a connector instance:

1. Construct a JSON body as shown below (see [Parameters](#)):

```
{
  "element": {
    "key": "hootsuite"
  },
  "providerData": {
    "code": ""
  },
  "configuration": {
    "oauth.callback.url": "",
    "oauth.api.key": "",
    "oauth.api.secret": ""
  },
  "tags": [
    ""
  ],
  "name": ""
}
```

2. Call the following, including the JSON body you constructed in the previous step:

```
POST /instances
```

**Note:** Make sure that you include the [User](#) and [Organization](#) keys in the header. For more information, see [Authorization Headers](#), [Organization Secret](#), and [User Secret](#).

3. Locate the `token` and `id` in the response and save them for all future requests using the connector instance.

## Example cURL

```

curl -X POST \
  https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/instances \
  -H 'authorization: User , Organization ' \
  -H 'content-type: application/json' \
  -d '{
  "element": {
    "key": "hootsuite"
  },
  "providerData": {
    "code": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  },
  "configuration": {
    "oauth.callback.url": "https://mycoolapp.com",
    "oauth.api.key": "xxxxxxxxxxxxxxxxxxxx",
    "oauth.api.secret": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  },
  "tags": [
    "Docs"
  ],
  "name": "API Instance"
}'

```

## Parameters

API parameters not shown in SAP Cloud Platform Open Connectors are in

`code formatting`.

**Note:** Event related parameters are described in [Events](#).

Parameter	Description	Data Type
<code>key</code>	The connector key. hootsuite	string
<code>code</code>	The authorization grant code returned from the API provider in an OAuth 2.0 authentication workflow.	string
Name <code>name</code>	The name for the connector instance created during authentication.	string
<code>oauth.callback.url</code>	The URL where you want to redirect users after they grant access. This is the <b>API Callback URL</b> that you noted in the <a href="#">API Provider Setup</a> section.	string

Parameter	Description	Data Type
<code>oauth.api.key</code>	The REST API Client ID from Hootsuite. This is the REST API Client ID that you noted in the <a href="#">API Provider Setup</a> section.	string
<code>oauth.api.secret</code>	The REST API Client Secret from Hootsuite. This is the REST API Client Secret that you noted in the <a href="#">API Provider Setup</a> section.	string
tags	<i>Optional.</i> User-defined tags to further identify the instance.	string

## Example Response for an Authenticated Connector Instance

In this example, the instance ID is `12345` and the instance token starts with "ABC/D...". The actual values returned to you will be unique: make sure you save them for future requests to this new instance.

```
{
  "id": 12345,
  "name": "API Instance",
  "createdDate": "2017-08-04T14:56:20Z",
  "token": "ABC/Dxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "element": {
    "id": 6791,
    "name": "Hootsuite",
    "hookName": "",
    "key": "hootsuite",
    "description": "Add a Hootsuite instance to connect to Hootsuite account to the social Hub, allowing you to manage messages, teams , members of the organizations across multiple social connectors. You will need Hootsuite account information to add an instance.",
    "image": "elements/provider_hootsuite.png",
    "active": false,
    "deleted": false,
    "typeOauth": false,
    "trialAccount": false,
    "resources": [ ],
    "transformationsEnabled": true,
    "bulkDownloadEnabled": true,
    "bulkUploadEnabled": true,
    "cloneable": true,
    "extendable": false,
    "beta": true,
    "authentication": {
      "type": "oauth2"
    },
    "extended": false,
  }
}
```

```
    "hub": "social",
    "protocolType": "http",
    "parameters": [],
    "private": false
  },
  "elementId": 4066,
  "tags": [
    "Docs"
  ],
  "provisionInteractions": [ ],
  "valid": true,
  "disabled": false,
  "maxCacheSize": 0,
  "cacheTimeToLive": 0,
  "configuration": { },
  "eventsEnabled": false,
  "traceLoggingEnabled": false,
  "cachingEnabled": false,
  "externalAuthentication": "none",
  "user": {
    "id": 12345
  }
}
```