

# Hubspot Marketing Authenticate a Connector Instance

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

## Authenticate Through the UI

Use the UI to authenticate with Hubspot and create a connector instance. Because you authenticate with Hubspot 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 Hubspot to authorize SAP 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

You can authenticate with Hubspot Marketing in one of two ways: **OAuth 2.0** and **API Keys**. Hubspot Marketing recommends API Keys for prototyping and OAuth 2.0 for production integrations. For more information, review Hubspot Marketing's [Authentication Overview](#). Go to the section that matches your authentication method:

- [OAuth API Authentication](#)
- [API Key API Authentication](#)

## OAuth API Authentication

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

1

Redirect URL

>

2

Authenticate Users

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3

Authenticate Instance

- [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 Open Connectors.

## Getting a Redirect URL

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Redirect URL

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Use `GET /{page.elementKey}/oauth/url` to request a redirect URL and pass scope to Hubspot. The scope parameter values that you include in the request must match the permissions granted to the authorizing user and their account. Some scopes apply only to Marketing accounts (such as content, reports, social, and automation) while others apply to both Marketing and CRM accounts (such as `crm.objects.contacts.read`, `timeline`, and `files`). If you include Marketing scopes when authenticating with Hubspot CRM, users will receive a Permissions error if their account does not include Marketing permissions.

To be certain that your users can authenticate, you should pass the specific scopes granted to the users and their account. Review the [Hubspot OAuth 2.0 scope documentation](#) for the complete list of scopes.

However, if you do not pass any scopes or pass scope without any values, see the table below for the default scopes passed with the `GET /{page.elementKey}/oauth/url` request.

Scope Parameter	Default Scope
Hubspot CRM with no scope parameter ex.	<code>crm.objects.contacts.read</code> , <code>crm.objects.deals.read</code> ,

Scope Parameter	Default Scope
GET /{page_elementKey}/oauth/url?apiKey=...&apiSecret=...&callbackUrl=...	crm.objects.companies.read, timeline, and files
Hubspot CRM with a scope parameter with no value ex. GET /hubspotcrm/oauth/url?apiKey=...&apiSecret=...&callbackUrl=...&scope=	crm.objects.contacts.read, crm.objects.deals.read, crm.objects.companies.read, timeline, files, content, reports, social, automation, forms, sales-email-read
Hubspot Marketing with no scope parameter ex. GET /{hubspot}/oauth/url?apiKey=...&apiSecret=...&callbackUrl=...	crm.objects.contacts.read, crm.objects.deals.read, crm.objects.companies.read, timeline, files, content, reports, social, automation, forms
Hubspot Marketing with a scope parameter with no value ex. GET /hubspot/oauth/url?apiKey=...&apiSecret=...&callbackUrl=...&scope=	crm.objects.contacts.read, crm.objects.deals.read, crm.objects.companies.read, timeline, files, content, reports, social, automation, forms

The examples below include recommended scope values. For Hubspot Marketing Basic account users, we recommend not including the automation scope.

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

```
curl -X GET "/elements/{keyOrId}/oauth/url?apiKey=&apiSecret=&callbackUrl=&scope=crm.objects.contacts.read%20timeline%20files%20content%20reports%20social%20automation%20forms"
```

## Query Parameters

Query Parameter	Description
apiKey	The key obtained from registering your app with the provider. This is the <b>Client ID</b> that you recorded in <a href="#">API Provider Setup</a> .
apiSecret	The secret obtained from registering your app with the provider. This is the <b>Consumer Secret</b> that you recorded in <a href="#">API Provider Setup</a> .
callbackUrl	The URL that will receive the code from the vendor to be used to create a connector instance.
scope	A space separated set of Hubspot scopes that your app can access. Scopes listed in this parameter are required for your app, and the user will see an error if they do not have access to any scope that you included.

## Example cURL

```
curl -X GET \
  'https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/elements/hubspot/oauth/url?apiKey=fake_api_key&apiSecret=fake_api_secret&callbackUrl=https://www.mycoolapp.com/auth&state=hubspot&scope=crm.objects.contacts.read%20timeline%20files%20content%20reports%20social%20automation%20forms' \
```

## Example Response

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

```
{
  "element": "hubspot",
  "oauthUrl": "https://login.hubspot.com/services/oauth2/authorize?response_type=code&client_id=fake_api_key&client_secret=xyz789&scope=full%20refresh_token&redirect_uri=https://www.mycoolapp.com/auth&state=hubspot"
}
```

## Authenticating Users and Receiving the Authorization Grant Code

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

- code
- state

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

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Redirect URL

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Authenticate Instance

Use the `/instances` endpoint to authenticate with Hubspot Marketing 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": "hubspot"
  },
  "providerData": {
    "code": ""
  },
  "configuration": {
    "authentication.type": "oauth2",
    "oauth.callback.url": "",
    "oauth.api.key": "",
    "oauth.api.secret": "",
    "create.bulk.properties": "false",
    "filter.response.nulls": true
  },
  "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": "hubspot"
    },
    "providerData": {
      "code": "xoz8AFqScK2ngM04kSSM"
    },
    "configuration": {
      "authentication.type": "oauth2",
      "oauth.callback.url": "https://mycoolapp.com",
      "oauth.api.key": "xxxxxxxxxxxxxxxxxxxx",
      "oauth.api.secret": "xxxxxxxxxxxxxxxxxxxxxxxx",
      "create.bulk.properties": "false",
      "filter.response.nulls": true
    },
    "tags": [
      "Docs"
    ],
    "name": "API Instance"
  }'
```

## API Key API Authentication

To authenticate using a Hubspot HAPIkey:

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

```
{
  "element": {
    "key": "hubspot"
  },
  "configuration": {
    "hubspot.authorization.apikey": "3a9990ff-bf17-40b1-9ce1-e1702e36ab51",
    "authentication.type": "apiKey",
    "create.bulk.properties": "false",
    "filter.response.nulls": true
  },
  "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": "hubspot"
    },
    "configuration": {
      "hubspot.authorization.apikey": "xxxxxxxxxxxxxxxxxxxxxxxx",
      "authentication.type": "apiKey",
      "create.bulk.properties": "false"
    },
    "tags": [
      "Docs"
    ],
    "name": "API Instance"
  }'
```

## Parameters

API parameters not shown in SAP Open Connectors are in `code formatting` .

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

Parameter	Description	Data Type
<code>key</code>	The connector key. hubspot	string
<code>code</code>	The authorization grant code returned from the API provider in an OAuth2 authentication workflow.	string
Name <code>name</code>	The name for the connector instance created during authentication.	string
<code>authentication.type</code>	Identifies how you are authenticating with Hubspot Marketing. Either <code>oauth2</code> or <code>apiKey</code> .	string
Create Bulk Properties for Migration <code>create.bulk.properties</code>	Identifies if you want to create custom properties in Hubspot for bulk uploads.	string, must be <code>true</code> (Yes) or <code>false</code> (No)
<code>oauth.callback.url</code>	OAuth 2.0 authentication only. The URL where you want to redirect users after they grant access. This is the <b>Callback URL</b> that you noted in <a href="#">API Provider Setup</a> .	string
<code>oauth.api.key</code>	OAuth 2.0 authentication only. The Client ID from Hubspot Marketing. This is the <b>Client ID</b> that you noted in <a href="#">API Provider Setup</a> .	string
<code>oauth.api.secret</code>	OAuth 2.0 authentication only. The Client Secret from Hubspot Marketing. This is the <b>Client Secret</b> that you noted in <a href="#">API Provider Setup</a> .	string
Hubspot API Key	API Key authentication only. The hubspot API key that you noted in	

hubspot.authorization.apikey	API Provider Setup.	string
Parameter	Description	Data Type
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 **58772** 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": 58772,
  "name": "API Instance",
  "createdDate": "2017-08-01T16:12:43Z",
  "token": "ABC/Dxxxxxxxxxxxxxxxxxxxxxxxx/9DROw=",
  "element": {
    "id": 43,
    "name": "Hubspot Marketing",
    "hookName": "HubSpot",
    "key": "hubspot",
    "description": "Add a HubSpot Instance to connect your existing HubSpot account to the Marketing Hub, allowing you to manage accounts, campaigns, contacts, leads etc. across multiple Marketing Connectors. You will need your HubSpot account information to add an instance.",
    "image": "elements/provider_hubspot.png",
    "active": true,
    "deleted": false,
    "typeOAuth": true,
    "trialAccount": false,
    "configDescription": "If you do not have a HubSpot account, you can create one at HubSpot Signup",
    "defaultTransformations": [ ],
    "objectMetadata": [ ],
    "transformationsEnabled": true,
    "bulkDownloadEnabled": true,
    "bulkUploadEnabled": true,
    "cloneable": false,
    "extendable": true,
    "beta": false,
    "authentication": {
      "type": "oauth2"
    },
    "extended": false,
    "hub": "marketing",
    "protocolType": "http",
    "parameters": [],
    "private": false
  },
  "elementId": 43,
  "tags": [
    "Docs"
  ],
  "provisionInteractions": [],
  "valid": true,
  "disabled": false,
  "maxCacheSize": 0,
  "cacheTimeToLive": 0,
  "configuration": { },
  "eventsEnabled": false,
  "traceLoggingEnabled": false,
  "cachingEnabled": false,
  "externalAuthentication": "none",
  "user": {
    "id": 3306
  }
}
```