

Shopify Authenticate a Connector

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

Authenticate Through the UI

Use the UI to authenticate with Shopify and create a connector instance. Because you authenticate with Shopify via OAuth 2.0, all you need to do is add a name for the instance and provide your Shopify site address. After you create the instance, you'll log in to Shopify 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 a multi-step process that involves:

1
Redirect URL



2
Authenticate Users



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 Cloud Platform Open Connectors.

Getting a Redirect URL

1

Redirect URL



2

Authenticate Users



3

Authenticate Instance

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

```
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 Client ID that you recorded in the API Provider Setup section.
apiSecret	The client secret obtained from registering your app with the provider. This is the Client Secret that you recorded in the API Provider Setup section.
callbackUrl	The URL that will receive the code from the vendor to be used to create a connector instance. This is the Callback URL that you recorded in the API Provider Setup section.

Example cURL

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

Example Response

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

```
{
  "element": "shopify",
  "oauthUrl": "https://SHOPIFYSHOPNAME.myshopify.com/admin/oauth/authorize?client_id=fake_client_id&scope=write_orders,write_products,write_customers&direct_uri=https://www.mycoolapp.com/auth&state=shopify"
}
```

Authenticating Users and Receiving the Authorization

Grant Code

1

Redirect URL



2

Authenticate Users



3

Authenticate Instance

Provide the response from the previous step to the users. After they authenticate, Shopify 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>shopify</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

- 1
Redirect URL
>
- 2
Authenticate Users
>
- 3
Authenticate Instance

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

Note: The endpoint returns a connector id and token 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": "shopify"
  },
  "providerData": {
    "code": ""
  },
  "configuration": {
    "oauth.api.key": "",
    "oauth.api.secret": "",
    "oauth.callback.url": "https://www.examplecallbackurl.com",
    "shopify.site.address": "",
    "oauth.scope": "write_orders,write_products,write_customer_s"
  },
  "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. Note the **Token** and **ID** 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": "shopify"
    },
    "providerData": {
      "code": "8aa74ff8ae16ba3ca19d12cbdea83aff16bddcd7"
    },
    "configuration": {
      "oauth.api.key": "xxxxxxxxxxxxxxxxxxxxxxxx",
      "oauth.api.secret": "xxxxxxxxxxxxxxxxxxxxxxxx",
      "shopify.site.address": "mycoolapp",
      "oauth.scope": "write_orders,write_products,write_customers",
      "oauth.callback.url": "https://mycoolapp.com"
    },
    "tags": [
      "Test"
    ],
    "name": "ShopifyInstance"
  }'

```

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
'key'	The connector key. shopify	string
Name <code>name</code>	The name for the connector instance created during authentication.	Body
<code>oauth.callback.url</code>	The Callback URL for the connected app you created for Shopify. This is the Callback URL that you recorded in the API Provider Setup section.	
	The key obtained from registering your app with the	

Parameter	Description	Data Type
<code>oauth.api.key</code>	provider. This is the Client ID that you recorded in the API Provider Setup section.	string
<code>oauth.api.secret</code>	The client secret obtained from registering your app with the provider. This is the Client Secret that you recorded in the API Provider Setup section.	string
Shopify Site Address <code>shopify.site.address</code>	The personalized portion of your <code>myshopify.com</code> URL. For example, in <code>https://cloud-elements.myshopify.com</code> just enter <code>cloud-elements</code> .	string
<code>oauth.scope</code>	The permissions granted to the user when they authenticate to your application	string
tags	<i>Optional.</i> User-defined tags to further identify the instance.	string

Example Response


```
{
  "id": 123,
  "name": "Test",
  "token": "5MOr3Sl/E4kww6mTjmjBYV/hAUazz1g=",
  "element": {
    "id": 48,
    "name": "Shopify Beta",
    "key": "shopify",
    "description": "Add a Shopify Instance to connect your existing Shopify account to the eCommerce Hub, allowing you to manage orders and products across multiple eCommerce connectors. You will need your Shopify account information to add an instance.",
    "image": "elements/provider_shopify.png",
    "active": true,
    "deleted": false,
    "typeOauth": true,
    "trialAccount": false,
    "configDescription": "If you do not have a Shopify account, you can create one at",
    "signupURL": "https://www.shopify.com/login",
    "transformationsEnabled": true,
    "authentication": {
      "type": "oauth2"
    },
    "hub": "ecommerce",
    "parameters": []
  },
  "provisionInteractions": [],
  "valid": true,
  "disabled": false,
  "maxCacheSize": 0,
  "cacheTimeToLive": 0,
  "configuration": {
    "oauth.api.secret": "SHOPIFY_API_SECRET",
    "event.notification.subscription.id": null,
    "event.notification.callback.url": null,
    "oauth.callback.url": "https://examplecallbackurl.com",
    "shopify.site.address": "SHOP_NAME",
    "oauth.scope": "write_orders,write_products,write_customers",
    "oauth.api.key": "SHOPIFY_API_KEY",
    "oauth.user.token": "f9a67e985bee7c6352c739d1ddcdb0f9",
    "event.notification.enabled": "false"
  },
  "eventsEnabled": false,
  "cachingEnabled": false,
  "traceLoggingEnabled": false
}
```