

Terminus Authenticate a Connector Instance

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

Authenticate Through the UI

Use the UI to authenticate with Terminus and create a connector instance. Because you authenticate with Terminus via OAuth 2.0, you need to add a name for the instance and provide your OAuth API Key and API Secret. After you create the instance, you'll log into Terminus 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: an authenticated connector instance with a **token** and **id**.

Authenticating through API follows a multi-step OAuth 2.0 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 API provider. Replace `{keyOrId}` with the connector key, `terminus`

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

Query Parameters

Query Parameter	Description
apiKey	The API key obtained through registering your app with the API provider. This is the OAuth API Key mentioned in Terminus API Provider Setup .
apiSecret	The API secret obtained through registering your app with the API provider. This is the OAuth API Secret mentioned in Terminus API Provider Setup .
callbackUrl	The URL that the API provider returns a user to after they authorize access. This is <code>https://auth.cloudelements.io/oauth</code> .

Example cURL

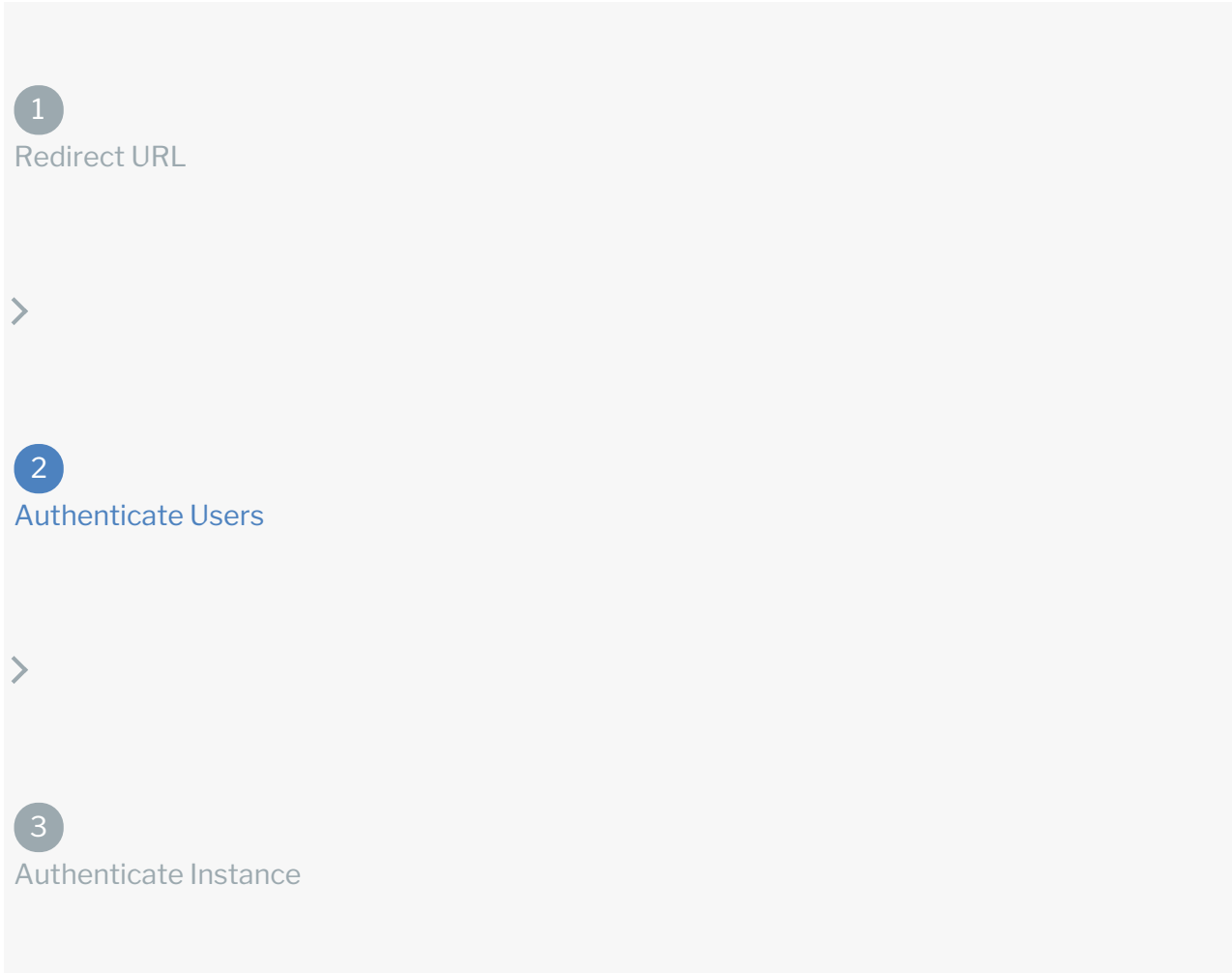
```
curl -X GET \  
  'https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/elements/terminus/oauth/url?apiKey=fake_api_key&apiSecret=fake_api_secret&callbackUrl=https://www.mycoolapp.com/auth&state=terminus' \  
'
```

Example Response

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

```
{  
  "oauthUrl": "https://oauth.terminus.services/v1/authorize?scope=triggered_ads&response_type=code&redirect_uri=https%3A%2F%2Fauth.cloudelements.io%2Foauth&state=terminus&client_id=285dfb36-3502-4e08-b5bd-ba09f2e886cb",  
  "element": "terminus"  
}
```

Authenticating Users and Receiving the Authorization Grant Code



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

- code
- state

Response Parameter	Description
code	The authorization grant code returned from the API provider in an OAuth 2.0 authentication workflow. SAP Cloud Platform Open Connectors uses the code to retrieve the OAuth access and refresh tokens from the endpoint.
state	A customizable identifier, typically the connector key (<code>terminus</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 Terminus and create a connector instance.

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 authenticate a connector instance:

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

```

{
  "configuration": {
    "oauth.api.secret": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "oauth.callback.url": "https://auth.cloudelements.io/oauth",
    "oauth.api.key": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "filter.response.nulls": "true",
    "oauth.scope": "triggered_ads",
    "oauth.user.refresh_time": null,
    "oauth.user.refresh_token": null
  },
  "name": "",
  "tags": [
    "xxxxxxxx"
  ],
  "eventsEnabled": null,
  "providerData": {
    "state": "terminus",
    "code": "xxxxxxxxxxxxxxxxxxxxxxxx",
    "scope": "https://www.googleapis.com/auth/devstorage.full_control"
  },
  "debug": false,
  "secret": "xxxxxxxxxxxxxxxxxxxxxxxx"
}

```

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
'{
  "name": ""
},
"configuration": {
  "oauth.scope": "triggered_ads",
  "connect.to.sandbox": "false",
  "oauth.api.key": "xxxxxxxxxxxxxxxx",
  "oauth.api.secret": "*****"
}
}'
```

Parameters

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

`code formatting` .

Parameter	Description	Data Type
<code>key</code>	The connector key. terminus	string
<code>code</code>	The authorization grant code returned from the API provider in an OAuth 2.0 authentication workflow. SAP Cloud Platform Open Connectors uses the code to retrieve the OAuth access and refresh tokens from the endpoint.	string
Name <code>name</code>	The name of the connector instance created during authentication.	string
<code>oauth.api.key</code>	The API key obtained through registering your app with the API provider. This is the OAuth API Key mentioned in Terminus API Provider Setup .	string
<code>oauth.api.secret</code>	The API secret obtained through registering your app with the API provider. This is the OAuth API Secret mentioned in Terminus API Provider Setup .	string
<code>oauth.callback.url</code>	The URL that the API provider returns a user to after they authorize access. This is	string

	https://auth.cloudelements.io/oauth .	Data
Parameter	Description	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 `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": "Terminus",
  "hookName": "Terminus",
  "key": "terminus",
  "description": "Terminus is the account-based platform for marketing and sales. Add a Terminus Instance to connect your existing Terminus account to the Marketing Hub, allowing you to manage campaigns, advertisements across multiple Marketing Elements. You will need your Terminus account information to add an instance.",
  "image": "elements/custom-element-default-logo.png",
  "logo": "terminus",
  "active": true,
  "deleted": false,
  "typeOauth": false,
  "trialAccount": false,
  "configuration": [...],
  "resources": [...],
  "objects": [...],
  "models": [...],
  "transformationsEnabled": true,
  "bulkDownloadEnabled": false,
  "bulkUploadEnabled": false,
  "cloneable": true,
  "extendable": true,
  "beta": false,
  "authentication": {...},
  "hooks": [...],
  "extended": false,
  "useModelsForMetadata": true,
  "hub": "marketing",
  "protocolType": "http",
  "parameters": [...],
  "private": false
}
```