# Box Authenticate a Connector Instance

Last Modified on 03/19/2020 5:54 pm EDT

#### On this page

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

#### Authenticate Through the UI

Use the UI to authenticate with Box and create a connector instance. Because you authenticate with Box 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 Box 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

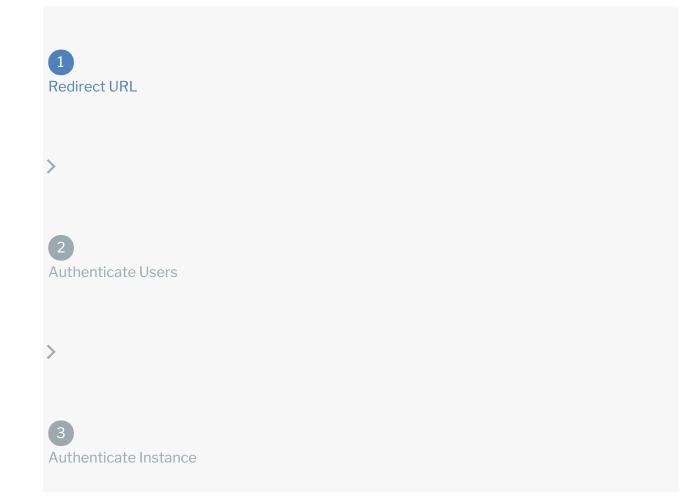
Authenticating through API is a multi-step process that involves:

1 Redirect URL

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



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, box.

GET /elements/{keyOrId}/oauth/url?apiKey=&apiSecret=&callbackUrl=&siteAddr ess=

#### **Query Parameters**

Query Parameter	Description
apiKey	The key obtained from registering your app with the provider. This is the <b>Consumer Key</b> that you recorded in API Provider Setup.
apiSecret	The secret obtained from registering your app with the provider. This is the <b>Consumer Secret</b> that you recorded in API Provider Setup.
callbackUrl	The URL that will receive the code from the vendor to be used to create a connector instance. This is the <b>Callback URL</b> that you noted at the end of the API Provider Setup.

#### Example cURL

```
curl -X GET
-H 'Content-Type: application/json'
'https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/eleme
nts/box/oauth/url?apiKey=fake_api_key&apiSecret=fake_api_secret&callbackUrl
=https://httpbin.org/get&state=box'
```

#### Example Response

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



## Authenticating Users and Receiving the Authorization Grant Code

1 Redirect URL
>
2 Authenticate Users
>
3 Authenticate Instance

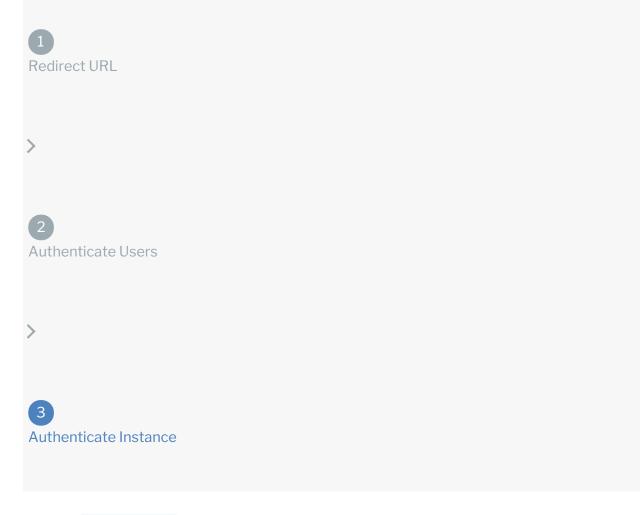
Provide the response from the previous step to the users. After they authenticate, Box provides the following information in the response:

- 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 ( $box$ ).

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 Box and create a connector instance. If you are configuring events, see Box Events.

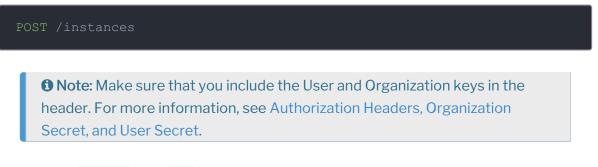
**1** Note: The endpoint returns a connector token upon successful completion. Retain the token for all subsequent requests involving this connector instance.

To create a connector instance:

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



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



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

Example cURL



#### **Parameters**

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

```
\operatorname{code} formatting .
```

Parameter	Description	Data Type
'key'	The connector key. box	string
name: name	A unique name for the connector instance created during authentication.	string
oauth.callback.url	The Redirect URL from Box that you noted in API Provider Setup.	string
oauth.api.key	The Client Id from Box that you noted in API Provider Setup.	string
	The Client Secret from Box that you noted in API	

oauth.api.secret	Provider Setup.	string Data
Parameter tags	<b>Description</b> <i>Optional</i> . User-defined tags to further identify the	<b>Type</b> string
1063	instance.	String

#### **Example Response**

```
"oauth.api.secret": "wvyQdUrNvXbHabxPVcxZV60G0ELMEx3n",
```