

Citrix ShareFile Authenticate a Connector Instance

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

Authenticate Through the UI

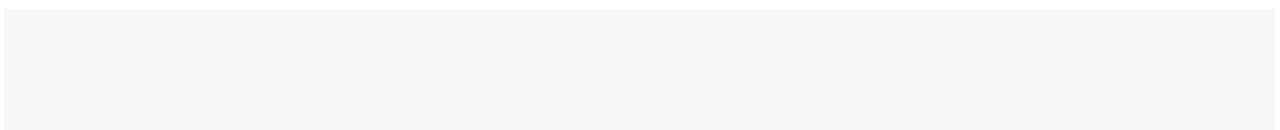
Use the UI to authenticate with Citrix ShareFile and create a connector instance. Because you authenticate with Citrix ShareFile via OAuth 2.0, all you need to do is add a name for the instance and provide your API key and API secret. After you create the instance, you'll log in to Citrix ShareFile to 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:



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Redirect URL



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Authenticate Users



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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



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Authenticate Users



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Authenticate Instance

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, `sharefile`.

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

Query Parameters

Query Parameter	Description
apiKey	The API key or client ID obtained from registering your app with the provider. This is the Client Id that you recorded in API Provider Setup .
apiSecret	The client secret obtained from registering your app with the API provider. This is the Client Secret that you recorded in API Provider Setup .
callbackUrl	The URL that the API provider returns a user to after they authorize access. This is the Redirect URI that you recorded in API Provider Setup .

Example cURL

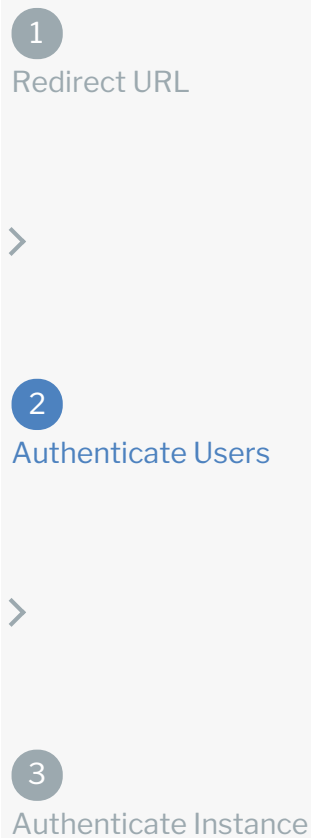
```
curl -X GET \  
  'https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/elements/sharefile/oauth/url?apiKey=fake_api_key&apiSecret=fake_api_secret&callbackUrl=https://www.mycoolapp.com/auth&state=sharefile' \  
  \
```

Example Response

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

```
{
  "oauthUrl": "https://secure.sharefile.com/oauth/authorize?client_id=tkRrJHt
oCrJG1kq3D22aQD8UNhocboRw&response_type=code&redirect_uri=https%3A%2F%2Fhtt
pbin.org%2Fget&state=sharefile",
  "element": "sharefile"
}
```

Authenticating Users and Receiving the Authorization Grant Code



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

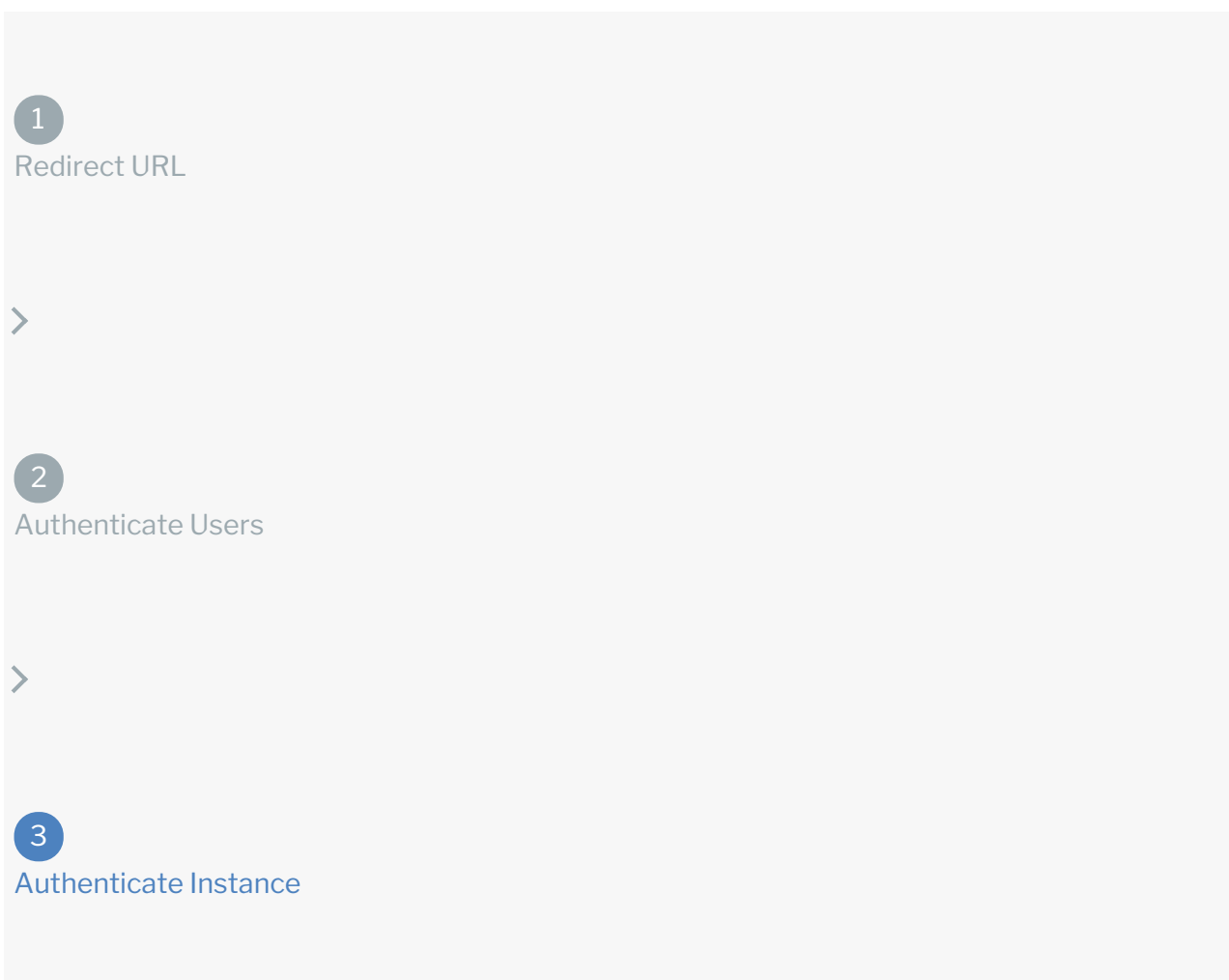
- code
- state

Response Parameter	Description

Response 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.
Parameter	
state	A customizable identifier, typically the connector key (<code>sharefile</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 Citrix ShareFile and create a connector instance. If you are configuring events, see [Citrix Sharefile Events](#).

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](#)):

```
{
  "element": {
    "key": "sharefile"
  },
  "providerData": {
    "code": ""
  },
  "configuration": {
    "oauth.callback.url": "",
    "oauth.api.key": "",
    "oauth.api.secret": "",
    "document.root.folder.name": "",
    "sharefile.subdomain": ""
  },
  "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": "sharefile"
    },
    "providerData": {
      "code": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx"
    },
    "configuration": {
      "oauth.callback.url": "https://mycoolapp.com",
      "oauth.api.key": "xxxxxxxxxxxxxxxxxxxx",
      "oauth.api.secret": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "document.root.folder.name": "/top",
      "sharefile.subdomain": "example"
    },
    "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 [Citrix Sharefile Events](#).

Parameter	Description	Data Type
<code>key</code>	The connector key. sharefile	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	The name of the connector instance created	string

name	during authentication.	Data
Parameter	Description	Type
<code>oauth.api.key</code>	The API key or client ID obtained from registering your app with the provider. This is the Client Id that you noted in API Provider Setup .	string
<code>oauth.api.secret</code>	The client secret obtained from registering your app with the API provider. This is the Client Secret that you noted in API Provider Setup .	string
<code>oauth.callback.url</code>	The API key or client ID obtained from registering your app with the provider. This is the Redirect URI that you noted in API Provider Setup .	string
Sharefile Root Folder <code>document.root.folder.name</code>	The root folder. The /top folder is the root level folder.	string
Subdomain <code>sharefile.subdomain</code>	The subdomain part of your Sharefile url. For example, if your url is <code>https://example.sharefile.com</code> enter <code>example</code> .	string
tags	<i>Optional.</i> User-defined tags to further identify the instance.	string

Example Response for an Authenticated Connector Instance

```
{
  "id": 1234,
  "name": "Test",
  "token": "zgldx35BCjiKo+pbTQS3dxcAKlfZcNVOWtI=",
  "element": {
    "id": 450,
    "name": "Sharefile",
    "key": "sharefile",
    "description": "Sharefile Element",
    "image": "https://lh6.googleusercontent.com/--zCBqgYsBHE/AAAAAAAAAI/AAAAAAAAks/ICvceS9qZ-I/s0-c-k-no-ns/photo.jpg",
    "active": true,
    "deleted": false,
    "typeOAuth": true,
    "trialAccount": false,
    "transformationsEnabled": true,
    "bulkDownloadEnabled": false,
    "bulkUploadEnabled": false,
    "cloneable": true,
    "authentication": {
      "type": "oauth2"
    }
  }
}
```



```
    },
    "hub": "documents",
    "parameters": []
  },
  "provisionInteractions": [],
  "valid": true,
  "disabled": false,
  "maxCacheSize": 0,
  "cacheTimeToLive": 0,
  "configuration": {
    "base.url": "https://{sharefile.subdomain}.sf-api.com/sf/v3",
    "oauth.api.secret": "SHAREFILE_API_SECRET",
    "event.notification.subscription.id": null,
    "pagination.max": "100",
    "event.vendor.type": "polling",
    "oauth.user.token": "ydDkYnjaxBiywa8jYBub2UQikA7SqlnD$$FRvqiWAdMEtRijHv
yqeD",
    "sharefile.token.url": "https://secure.sharefile.com/oauth/token?grant_
type=authorization_code",
    "pagination.type": "",
    "event.poller.refresh_interval": "5",
    "event.notification.callback.url": null,
    "event.notification.signature.key": null,
    "oauth.user.refresh_token": "ydDkYnjaxBiywa8jYBub2UQikA7SqlnD$$t5A4a5oU
7FYJeZwa4V7LZzrl82AmdG9xmH8",
    "sharefile.subdomain": "cloudelements",
    "event.poller.urls": "documents|hubs/documents/events/poll/documents?w
here=lastmodifieddate='${gmtDate:yyyy-MM-dd'T'HH:mm:ss'Z'}'",
    "sharefile.auth.url": "https://secure.sharefile.com/oauth/index.aspx",
    "oauth.api.key": "SHAREFILE_API_KEY",
    "sharefile.callback.url": "https://httpbin.org/get",
    "oauth.user.refresh_time": "1461625686998",
    "sharefile.format": "json",
    "event.notification.enabled": "false"
  },
  "eventsEnabled": false,
  "cachingEnabled": false,
  "traceLoggingEnabled": false
}
```