## Revoking an OAuth Token and Reauthenticating an Connector Instance

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There are a handful of connector-specific articles available that discuss how to reauthenticate through the API as opposed to through the SAP Cloud Platform Open Connectors user interface, but this article's purpose is to provide guidelines on reauthenticating connector instances through an example. Revoking an OAuth token can be useful when testing your application and handling response codes other than 200 when an instance needs to be re-authenticated. As there can be specific requirements between each API provider (such as Box, Salesforce, or Quickbooks) this article will not address how to create a cloud service OAuth application and the discussion relies on OAuth credentials having already been obtained.

The first question that likely crosses your mind when thinking about how to reauthenticate instances is "how can I simulate invalidated/expired/revoked tokens for my instance?" Each software vendor and cloud service endpoint that you interact with can have their own unique ways of allowing you to revoke user tokens through their UI or through API calls to `revoke` endpoints, but here are a few examples of calls to revoke OAuth tokens through API:

```
Box:
curl -X POST \
https://api.box.com/oauth2/revoke \
-H 'Cache-Control: no-cache' \
-H 'Content-Type: application/x-www-form-urlencoded' \
-d 'client_id=MY_CLIENT_ID&client_secret=MY_CLIENT_SECRET&token=MY_TOKEN'
Salesforce:
curl -X POST \
'https://na54.salesforce.com/services/oauth2/revoke?token=MY_TOKEN' \
-H 'Cache-Control: no-cache' \
-H 'Content-Type: application/json' \
Adobe Sign:
curl -X POST \
'https://secure.nal.echosign.com/oauth/revoke?token=MY_TOKEN' \
-H 'Cache-Control: no-cache' \
-H 'Content-Type: application/x-www-form-urlencoded' \
```

To revoke a user's OAuth token you must first determine the existing token value. One way to do this is with GET /instances (with the full Authorization header of your instance user/organization/SAP Cloud Platform Open Connectors tokens) and retrieve the oauth.user.token value from the configuration object. You can get this value through other methods as well, but this API GET call is used in this example. By hitting the above endpoints with the appropriate OAuth Token you can invalidate the authorization for that SAP Cloud Platform Open Connectors instance, then go through the OAuth flow to retrieve a new Provider Code and simply pass the new code to PATCH /instances (again with the full SAP Cloud Platform Open Connectors Authorization header for your existing connector instance) to reauthenticate it.

To illustrate, let's take the SAP Cloud Platform Open Connectors Adobe Sign for example:

1. GET /instances with the full authorization header (User, Organization, and Connector tokens).

SAP	API Docs	¢	API Docs
☆ Home			0
Connectors	Platform API Documentation	Select an connector instance	
instances	Audit-Logs	instances The Instance APIs	
ද්දී Common Resources	Connectors	GET /instances Retrieve all element instances from a specified path. The instances go through Cloud Elements to your console. Sp an instance that does not exist results in an error response.	pecifying
👗 Formulas	Connectorsbuilder	Parameters Can	icel
	Formulas	Name Description	
Security	Instances	Authorization • required         The authorization tokens. The format for the header value is         User <user secret="">, Organization <org secret="">'           string         User (userToken), Organization (orgToken), Connect         User <user secret="">, Organization <org secret="">'</org></user></org></user>	
	Jobs	tags[]     The tags to search, e.g., development, qa, my sample tag       array[string]     Add item       (query)     Add item	

2. Locate the configuration object, and retrieve the current oauth.user.token value.

SAP	API Docs	
合 Home		
≪ Connectors	Platform API Documentation	<pre>"configuration": {     "event.sotification.subscription.id": null,     "base.url": "{api.domsinjapi/rest/v5",     "bulk.add_metadata": null,     "bulk.add_metadata": null,</pre>
🌾 Instances	Audit-Logs	"event.vandor.typs': "polling', "filter.response.nulls': "truo", "bulk.query.date_mask": "yyyy.dw-dd'%'HimmissIIX", "bulk.query.date_mask": tjuny.dw-dd'%'HimmissIIX",
쁆 Common Resources	Connectors	"segination.type", "cursor", "bulk relations"; null, "outh.callback.url": https://suth.cloudelements.io/outh",
👗 Formulas	Connectorsbuilder	owith user.refreem_town i shakanbulgabayyubacdukjbueuyiki,
III Activity	Formulas	"event.motification.emabled": "false", "outh.agi.secret:""""""""""""""""""""""""""""""""""""
e	Hubs	"paginstion.max":"-100", "api.domsin": "https://spi.nal.echosign.com/", "outh.scope': "agreement readiaccount agreement sendiaccount agreement write:account library readiaccount library wd
Security	Instances	<pre>staccount user_readisccount user_write:sccount widget_readisccount widget_write:sccount workflow_read:sccount workflow_wr oauth.token.refreah url : https://secure.nnl.echosion.com/oauth/refreah". oauth.user.token": "AlaMalioiztaba-GelYCYUTWHENGESCDS2DDF227540F</pre>
	Jobs	"earth athorisation unl': "https://secure.mal.echosign.com/public/earth", "bulk guery download format " '3000", "event.poller.refreem interval": '57,
	Metrics	"event.sotificstion.cmllhack.url": null, "event.policr.configuration": "(h \"sgreementAssetEvents\": {\n \"url\": \"/hubs/esignature/sgreementAssetEvents erwestaribate="\${date:yyyy=40-6d %"iminussill}" and endbate="\${cowiyyyy=40-6d %"iminussill"\h \"idfield\": Nag
	Usage	n}', "cauth.user.refresh_time": "1519091284878", "cauth.basic.hesder": "true" }.
	Users	"erestsmabled": false, "traceloggingEmabled": false, "exchingEmabled": false,
	Hubs API Documentation	"externalAuthenication 1 home", "sec": { "encilAdfress": "Every%cloud-elements.com" }
	Applytics	

3. Make an API call directly against the API provider's endpoint to revoke the OAuth token, and supply the required parameters/payload. Confirm that a successful 200 response is returned indicating that the revocation was successful.

	POST V https://secure.na1.echosign.com/oauth/rev	oke?token=MY_TOKEN	Params Send Y Save Y
	Key	Value	Description •••• Bulk Edit
~	token	MY_TOKEN	
Auth	orization Headers (1) Body Pre-request Script	Tests	Cookies Code
	Key	Value	Description ••• Bulk Edit Presets ▼
~	Content-Type	application/x-www-form-urlencoded	

4. Attempt to make an API request to any endpoint of the SAP Cloud Platform Open Connectors instance, and confirm that a response is returned such as **401** "Request failed" due to INVALID\_ACCESS\_TOKEN.

Code	Details
401	Error: Unauthorized
	Response body
	{ "requestId": "5a8127a0e4b025a3f99f46a0d", "message": "Request failed", "providerMessage": "code - INVALID_ACCESS_TOKEN, message - Access token provided is invalid or has expired" }

	GET Y http://api.cloud-elements.com/elements/ap	pi-v2/elements/adobe-esign/oauth/url?apiKey= <mark>{yourAPI_Ke</mark> y	/}}&api Params	Send 💙	Save \vee
	Key	Value	Description	0.0.0	Bulk Edit
~	аріКеу	{{yourAPI_Key}}			
~	apiSecret	{{yourAPI_Secret}}			
~	callbackUrl	https://auth.cloudelements.io/oauth			
	New key				
Auth	prization Headers (2) Body Pre-request Scrip	t Tests		Co	okies Code
	Key	Value	Description	••• Bulk Edit	Presets 🔻
~	Content-Type	application/json			
~	Authorization	{{authHeader}}			
	New key				

- 6. Enter the resulting OAuth URL into a browser, authenticate with the API provider, and intercept the oauth provider code that is returned.
- 7. Make a call to PATCH /instances with the full Authorization header and the providerData.code value.

	PATCH V https://api.cloud-elements.com/eleme	ents/api-v2/instances	Params	Send Y Save Y
Auti	horization Headers (2) Body • Pre-reque	st Script Tests		Cookies Code
	Key	Value	Description	••• Bulk Edit Presets 🔻
~	Authorization	{{User Token, Org Token, Element Token}}		
~	Content-Type	application/json		
Aut	horization Headers (2) Body • Pre-reque	st Script Tests		Cookies Code

8. Confirm that the user is successfully re-authenticated, and that API calls can be made successfully against the SAP Cloud Platform Open Connectors instance.