





Implementing Manual OAuth 2.0 with Client Credentials

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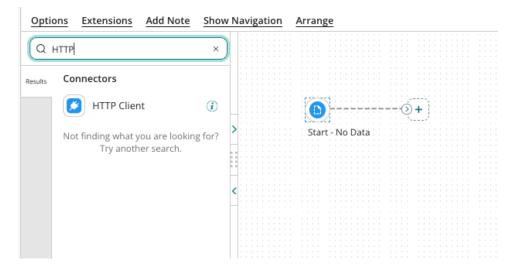
Implementing OAuth 2.0 with Client Credentials

In this blog, let us discuss about how to do a Manual OAuth call with client credentials grant type.

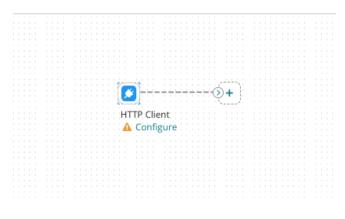
- To do manual OAuth call in boomi, we have a connector called "HTTP Client" through which we can use the service provided by third party API.
- Here, we want to access particular employee data from salesforce API where we give id as an input and will fetch complete data of an employee as the response.

Now, let us see the steps of "how to do the manual OAuth call".

Step 1: Firstly, create a process with a start shape and type http in search map, you will get to see "Http Client" connector.



Step 2: Drag and drop "Http Client" connector onto the process canvas.



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Step 3: Now, we have to configure 3 things in the connector i.e Action, Connector and Operation.

connector and one	pes to get data into and out of a process. Most proc or more "send" connectors. The Connector shape tion and operation components to establish where	uses a combination of
General Pa	arameters	
Display Name		
Connector i	HTTP Client	~
	Use the HTTP Client connector to exchange data servers using the Hyper Text Transfer Protocol (H Text Transfer Protocol Secure (HTTPS) protocols. Learn more about this connector. 다	HTTP) and Hyper
Connection i	Q [Connection]SalesforceAuth	1
Action	Send	~
Operation 🥡	Q [Operation]SalesforceOAuth2	/ 😒

Step 4: If we look at the Action, we find two operations i.e Get and Send. If we are sending data to an API, we will use send operation.

Connection i	Q [Connection]SalesforceAuth	/ 0
Action	Get ✓ Send	,
Actor		
Operation 🪺	Q [Operation]SalesforceOAuth2	/ 8

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Step 5: To configure the connection, Click + and give a relevant name to the connection. You see 2 parts in the connection tab i.e URL and Authentication type.

- In place of URL, give base url of an api for which you want to consume the service.
- Here we will call the salesforce URL configured in the salesforce connected app in order to get the access token.
- We need to configure the connected app callback URL as base url, in this secanrio which is "https://techygeekhub7-dev-ed.develop.my.salesforce.com/"
- Based on the authentication type provided by the third party api, we have to choose the field. We are going to leave it as none which is default (as we don't have any authentication)
- Click on save and close.

[Connection]SalesforceAuth - HTTP Client 🕖 🖿 Folder 🖉 Add Description				
Settings	SSL Options	Advand	ed	
URL			https://techygeekhub7-dev-ed.develop.my.salesforce.com/	
Authentication	Туре		None 🗸 🕻	

Step 6: Now, click on + to configure the operation and give a relevant name.

In options tab, we find connector action as GET by default ,we have to configure SEND in the connector.

- Select request and response profiles based on the data that is being sent and received by the connector. we will put both request and response profiles as NONE as we don't need any request or response profiles to access the API as we would only want records to be retrieved.
- Content type describes the format of how data is represented. In this example, it is application/x-www-form-urlencoded.
- HTTP Method defines the type of request. In this case, it would be SEND as we are sending some required data to get back the token from token server.







Options Archiving Tracking	Caching
Connector Action	Send 🗸
Select Request Profile Type:	NONE
Select Response Profile Type:	NONE
Content Type	application/x-www-form-urlencod
HTTP Method	POST 🗸
Return HTTP Errors	\checkmark
Follow Redirects	\checkmark
Return HTTP Responses	\checkmark
Process Response as MIME	
.	

Step 7:

- If you scroll down you will find Request Headers where you can add the headers which are required to access the API. In this case, we don't have any headers.
- Next, place the resource path i.e (add the path which is after the base path).
- For suppose, the URL which we are going to access is "https://techygeekhub7-deved.develop.my.salesforce.com/". So, "https://techygeekhub7-deved.develop.my.salesforce.com/" becomes the base path, and "services/oauth2/token" will be added to the resource path.
- By calling this endpoint we will get back the access token.

Resource	Dath
Resource	Patri

+ ×		
services/oauth2/token	Name	services/oauth2/token
		Is replacement variable?

Click save and close

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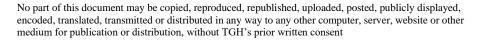




Step 8: We need to drag and drop a message shape to pass the required information to the HTTP Client Connector.

- In the message shape we will pass grant_type=client_credentials&client_id= {1}& client_secret={2}.
- The 1st place holder {1} will carry the value of client id and the 2nd place holder {2} will carry the value of the client secret which we can find from the salesforce connected app.

,≡ Message	Shape 🕖
-	ocument data into a free-form message using a combination of static se the Message shape. The Message shape is often used to construct
Display Name	
Option	Combine documents into a single message i
Message	grant_type=client_credentials&client_id= {1}&client_secret={2}
Variables	 + × ▼ ★ {1} Static value of '3MVG9wt4lL4O5wvKP65rNxlVwH84Vg1Y1lQzku8_zf hD0P69eEVwA.OC0Jr2T4jmSj2XlKl6cyZc4Ajo5NKCl' {2} Static value of '4E7D668DBEC2D8AB94809AB3C1C44C099AB89E5F 19FE49D5EF746A19C2E7FAA5'
OK Cancel	







Step 9: Now we need to drag and drop a set properties shape. Then we need to setup a Dynamic Process Property to capture the Access Token.

These properties can be used to s	ou to set values for various document and process properties et outbound connector attributes such as file name or email memory to facilitate the integration. The property values can amic values.
Display Name	
Properties to Set	Property Value i
+ 🖋 🗙	+ 🖋 × ∓ ±
Dynamic Process Property - DPP_Token	JSON Profile - OauthResponse - access_token (Root/Object/access_token)

Step 10: Now we need to drag and drop a branch shape and we connect the first branch to the above built logic and in the second branch we will built the logic to use the retrieved token and get the resource.

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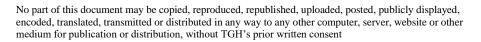


Step 11: Drag and drop a HTTP Connector and configure it with the Base URL as "https://techygeekhub7-dev-ed.develop.my.salesforce.com/".

[Connection]SalesforceGet - HTTP Client 🕖 🖿 Folder 🖉 Add Description				
Settings SSL Options Advar	nced			
URL	https://techygeekhub7-dev-ed.develop.my.salesforce.com			
Authentication Type	None 🗸 🕻			

Step 12: Now we need to configure the action as Get and we need to configure the operation in HTTP connector.

Connection (Q [Connection]SalesforceAuth	/ 0	
Action	✓ Get Send	2	
Operation (Q Choose	0	



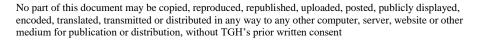




Step 13: We need to configure the Request and Response profile. We will select as None.

- Then we need to configure the request header as we have to pass the access token in the header.
- To do so, we need to click on the plus icon and we need to add one header named "Authorization". The value section we choose as a replacement variable as we will pass it from parameters.
- Then we will configure the resource path as "services/data/v57.0/sobjects/Account/0015i00000oTv9YAAS" to get back the resource.

[Operation]GetRecords - HT	TP Client Operation 🚺 🖿	Folder 🖉 Add Desc	ription
Options Archiving Tracking	Caching		
Connector Action	Get	\checkmark	
Select Request Profile Type:	NONE	~	
Select Response Profile Type:	NONE	~	
Content Type	application/json	w.	
HTTP Method	GET	~	
Return HTTP Errors	\checkmark		
Follow Redirects			
Process Response as MIME			
Request Headers			
+ ×			
Authorization	Name		Authorization
			Header name can contain alphanumeric characters and special characters !#\$%&'*+^
	Value		Bearer
			✓ Is replacement variable?
Resource Path			
+ ×			
services/data/v57.0/sobjects/Accord	unt/0015i0000 Name		rt/0015i000000v9YAAd
			Is replacement variable?



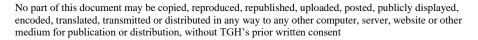




Step 14: To pass the token value we need to drag and drop a set properties before the HTTP connector.

- On the set properties we need to configure a Dynamic Document Property same as the replacement variable name of the request header name of the HTTP connector operation.
- We need to pass the Dynamic process property value configured before which we used to capture the token.

Set Properties Shape () The Set Properties shape allows you to set values for various document and process properties can be used to set outbound connector attributes such as file name subject, or store certain values in memory to facilitate the integration. The property value comprised of static and/or dynamic values.							
Display Name Properties to Set	Property Value (i)						
	 ★ ★ ★ ± Static value of 'Bearer ' Dynamic Process property name of 'DPP_Token' 						
OK Cancel							

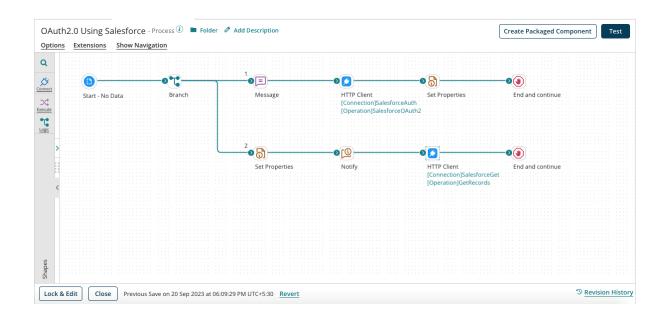


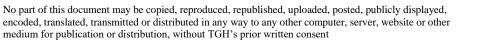




Step 15: We need to drag and drop a STOP shape to stop the flow of execution.

After configuring everything our process will look something like shown in the below.



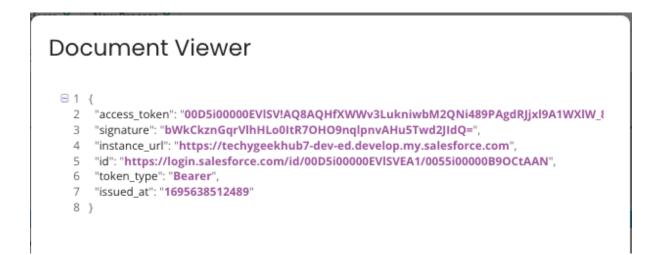






Step 16: Now we need to test the process and we can get the resource from the salesforce as shown below.

÷	Process: OAuth	th2.0 Using Salesforce									
B Start - No Data		Bra	anch	1 Message	HTTP Client [Connection]Salesfor [Operation]Salesforce		End and continue				
	Documents				Test R	esults					
#	Documents	Logs	Shape Source	Data	Test R	esults					
#	Documents	Logs View Source	Shape Source Size (kB)	Data	Test R	esults					
#				Data	Test R	esults					

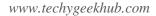


	b Start - No Data	Br	anch	1 Message	HTTP Client [Connection]SalesforceAu [Operation]SalesforceOAu		End and continue
				2 Set Properties	Notify	HTTP Client [Connection]Salesford [Operation]GetRecord	
#	ocuments	Logs	Shape Source Da	ata	Test Result	5	
1	0	View Source	Size (kB)				
			1.68				

← Process: OAuth2.0 Using Salesforce ▼

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Document Viewer ⊟ 1 { 2 "attributes": { 3 "type": "Account", 4 "url": "/services/data/v57.0/sobjects/Account/0015i00000oTv9YAAS" 5 }, 6 "Id": "0015i0000oTv9YAAS", 7 "IsDeleted": false, 8 "MasterRecordId": null, 9 "Name": "First Account", 10 "Type": null, 11 "Parentid": null, 12 "BillingStreet": null, 13 "BillingCity": null, 14 "BillingState": null, 15 "BillingPostalCode": null, 16 "BillingCountry": null, 17 "BillingLatitude": null, 18 "BillingLongitude": null, 19 "BillingGeocodeAccuracy": null, 20 "BillingAddress": null, 21 "ShippingStreet": null, 22 "ShippingCity": null, 23 "ShippingState": null, 24 "ShippingPostalCode": null, 25 "ShippingCountry": null, Formatted view is on. Formatted view may hide some data for easier reading. Download Original Document Size 1722 bytes **Close Document Viewer**

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