



TGH

Making Integrations Simpler



Consume REST API



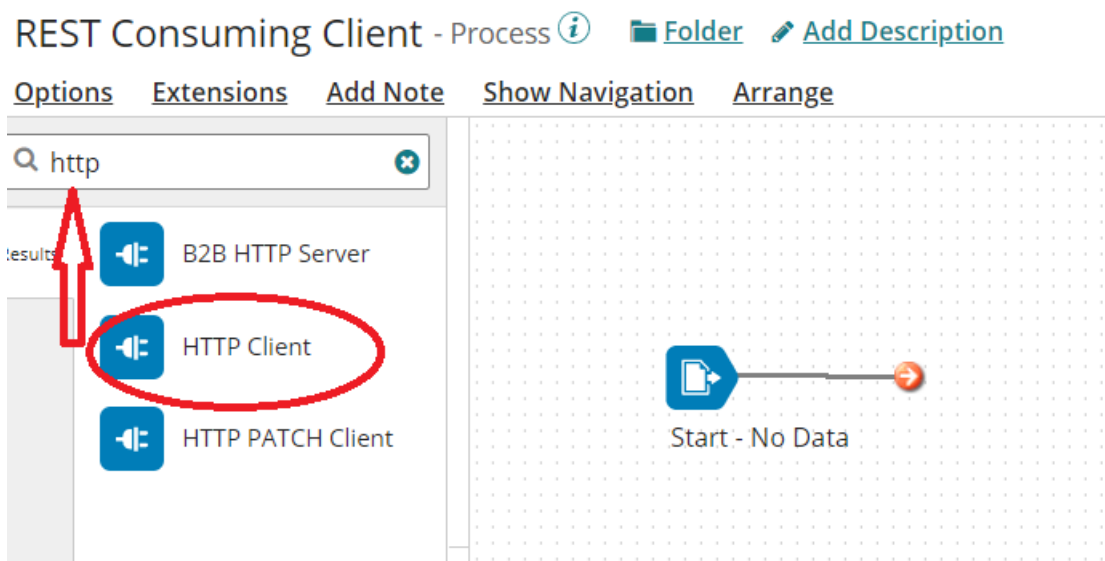
Consuming REST API in Boomi

In this blog, let us discuss about how to consume REST service.

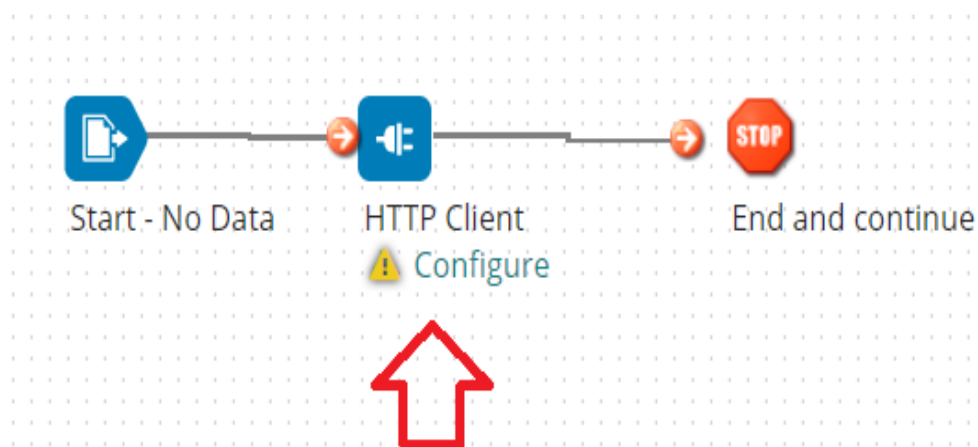
- To consume REST services in Boomi, we have a connector called “HTTP Client” through which we can use the service provided by third party API.
- Here, we want to access particular employee data from third party API where we give employee id as an input and will fetch complete data of an employee as the response.

Now, let us see the steps of “how to consume REST service”.

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 and place it after the start shape.



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

have one get connector and one or more set combination of predefined connection and open to get or send data.

General **Parameters**

Display Name

Connector ⓘ

Action

Connection ⓘ

Operation ⓘ

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. In this example, we are going to get the records of an employee. Therefore, consider Action as Get.

General **Parameters**

Display Name

Connector ⓘ

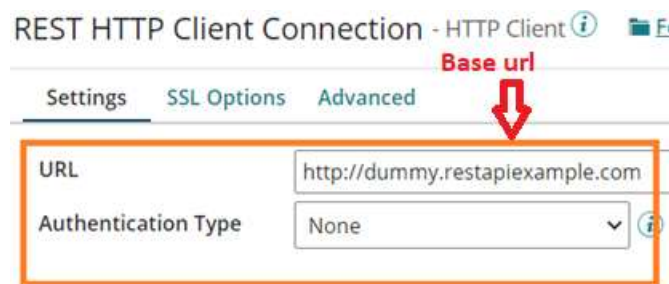
Action

Connection ⓘ

Operation ⓘ

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.
- 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)
- You can optionally configure client certificate authentication i.e., SSL options based on the certificate provided by the third party.
- Click on save and close.



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 as we have configured GET 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/Json.
- HTTP Method defines the type of request. In this case, it would be GET as we want the employee records to be fetched.

REST HTTP Client Connector Operation - HTTP Client Operation  

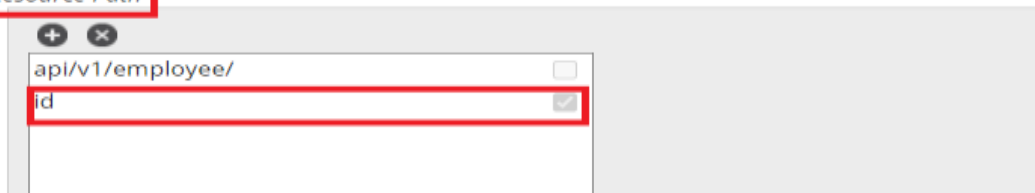
Options	Archiving	Tracking	Caching
Connector Action			Get ▾
Select Request Profile Type:			NONE ▾
Select Response Profile Type:			NONE ▾
Content Type			application/json ▾
HTTP Method			GET ▾
Return HTTP Errors			<input type="checkbox"/>
Follow Redirects			<input type="checkbox"/>
Process Response as MIME			<input type="checkbox"/>

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 <http://dummy.restapiexample.com/api/v1/employee/{id}>. So, <http://dummy.restapiexample.com> becomes the base path and “Api/v1/employee/” will be added to the resource path and id would be a dynamic value defined in the shape's Parameters tab that replaces the resource path value.
- The value would be replaceable only if we check the parameter as shown below.

Request Headers

A panel titled "Request Headers" with a plus sign and a close button. The main area is empty, indicating no headers are currently defined.

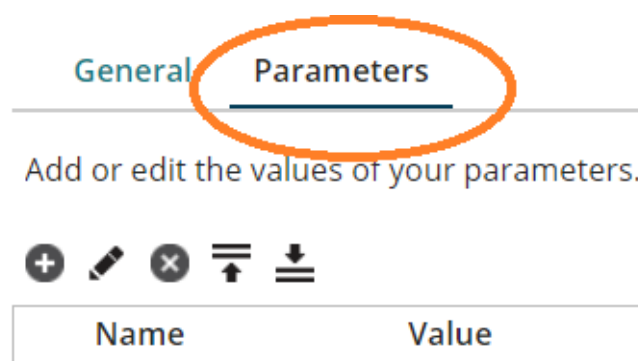
Resource Path

A panel titled "Resource Path" with a plus sign and a close button. It contains a text input field with the value "api/v1/employee/" and a checkbox to its right. Below this, there is a parameter field with the value "id" and a checkmark icon to its right, indicating it is a dynamic parameter.



Click save and close.

Step 8: Now, to assign value to the replacement variable (which is id in this example), we should click on “HTTP Client” connector and go to parameters tab.

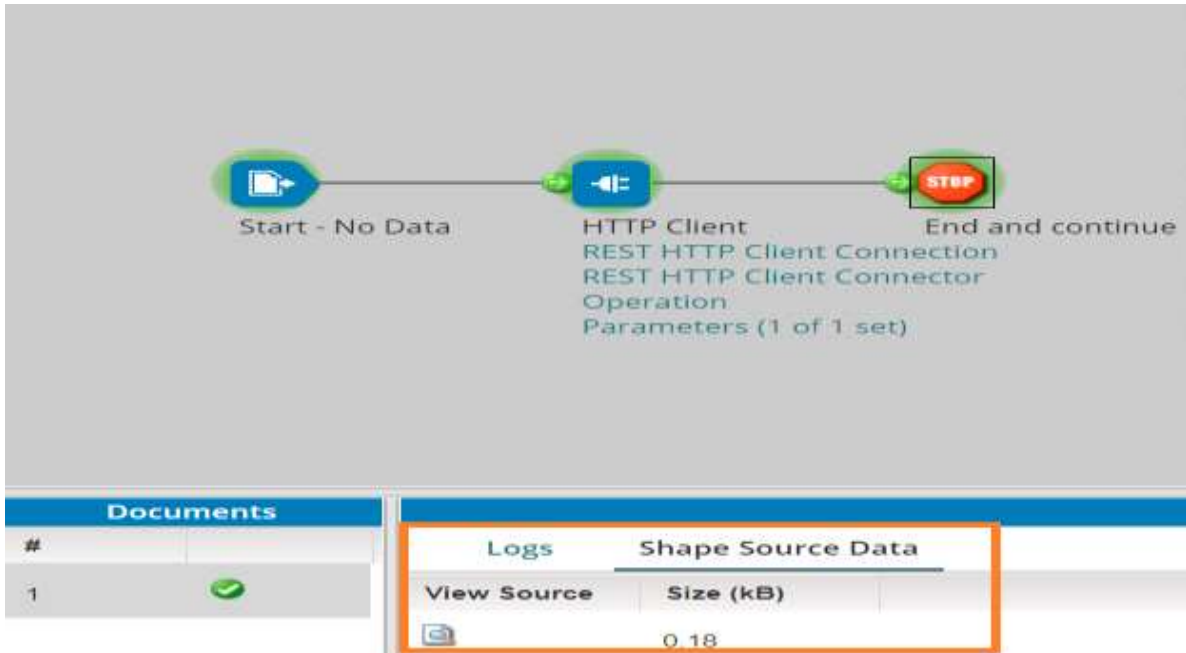


Step 9: Now, set the value by hitting + button and you see parameter value with 3 options i.e Input, Type and Static Value. Choose input and you will automatically see id as input as you have declared it to be a replacement variable in the resource path. Give Type as static and static value would be any employee id (In this case, the value is 12)

Parameter Value

Input	<input type="text" value="id"/>
Type	<input type="text" value="Static"/>
Static Value	<input type="text" value="12"/>

Step 10: Now, test the process and check for the response.



The workflow consists of three steps:

- Start - No Data
- HTTP Client
 - REST HTTP Client Connection
 - REST HTTP Client Connector
 - Operation
 - Parameters (1 of 1 set)
- End and continue

Below the workflow, the 'Documents' table shows one document with a green checkmark:

#	
1	

The 'Logs' table shows one log entry:

View Source	Size (kB)
	0.18

Document Viewer

```

1 {
2   "status": "success",
3   "data": {
4     "id": 12,
5     "employee_name": "Quinn Flynn",
6     "employee_salary": 342000,
7     "employee_age": 22,
8     "profile_image": ""
9   },
10  "message": "Successfully! Record has been fetched.
11 }
  
```

Response



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www.techygeekhub.com

At TGH, we specialize in driving digital transformation through seamless Integration Technologies.

Operating as an INTEGRATION FACTORY, we serve as a one-stop shop for all your integration needs. Our expert team is well-versed in enterprise software and legacy system integration, along with leading iPaaS technologies like Boomi, MuleSoft, Workato, OIC, and more.

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Email address

connect@techygeekhub.com



Phone number

+ 011-40071137
+ 91-8810610395



Our offices

Noida Office

iThum
Plot No -40, Tower A,
Office No: 712,
Sector-62, Noida,
Uttar Pradesh, 201301

Hyderabad Office

Plot no: 6/3, 5th Floor,
Techno Pearl Building,
HUDA Techno Enclave,
HITEC City, Hyderabad,
Telangana 500081

