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How to Rapidly Scale Your Integrations Using API's Exercise

For IUC2019

September 20th, 2019

Purpose

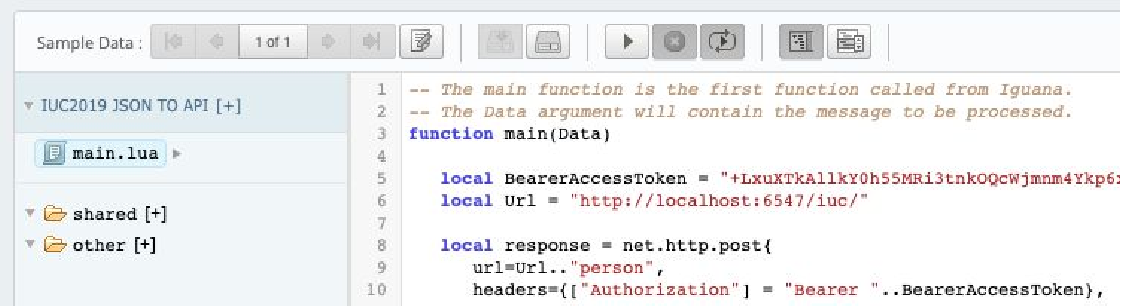
This document describes the exercise accompanying the *How to Rapidly Scale Your Integrations Using API's* presentation at IUC2019.

Included is a GitHub repository that will contain six channels with *Exercise3:* prepended to the channel name, that can be imported into any Iguana instance (see Add/Configure Repositories and Import Channels).

If you have any questions or concerns, please contact us at support@interfaceware.com and CC paul.le@interfaceware.com or amandeep.aujla@interfaceware.com in the email.

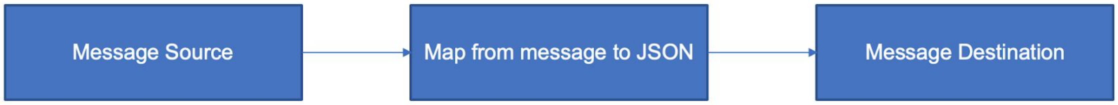
Overview

1. Using the GitHub repository, import all six channels into any Iguana instance.
2. Ensure that the *Exercise2: API Server* channel has also been imported as well from the GitHub repository, and that there is an access key available (see *Juggling Internal & External APIs with Iguana Exercise* document for more information). In the *Exercise3: 6 - JSON to API* channel, add the access key to the *BearerAccessToken* variable and ensure the URL is pointing to the correct *Exercise2: API Server* channel URL:

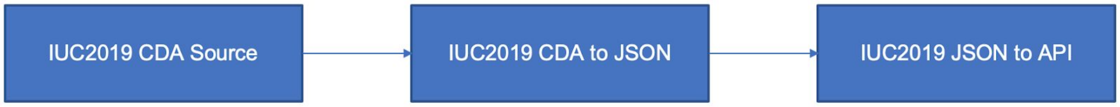


```
-- The main function is the first function called from Iguana.
-- The Data argument will contain the message to be processed.
function main(Data)

   local BearerAccessToken = "+LxuXTkAllkY0h55MRi3tnkOQcWjmnm4Ykp6:
   local Url = "http://localhost:6547/iuc/"

   local response = net.http.post{
      url=Url.."person",
      headers={["Authorization"] = "Bearer "..BearerAccessToken},
```

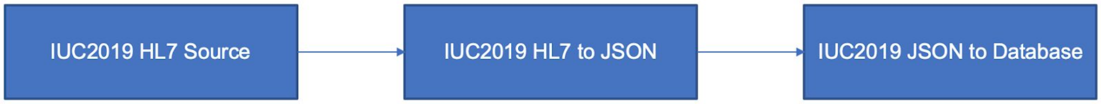
3. There are two workflows included in these six channels, both of which have the following structure:



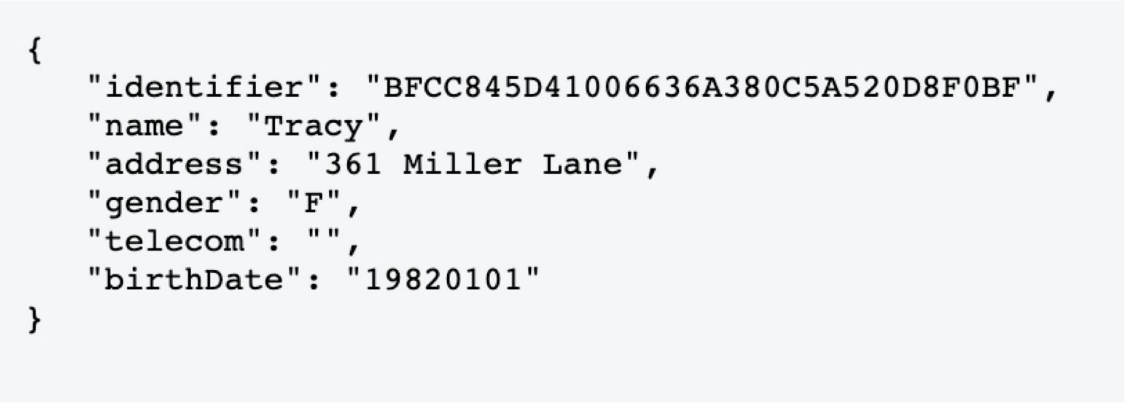
4. The first workflow involves a CDA source that sends CDA documents to a filtering channel that maps CDA to a JSON message, which then send the JSON message to another channel that uses the JSON message to make an API request to the *Exercise2: API Server* channel:



5. The second workflow involves an HL7 source that sends HL7 messages to a filtering channel that maps HL7 to a JSON message, which then sends the JSON message to another channel that writes the data to a SQLite database:



6. Both workflows use the same JSON message, where the filter channel is used to map either CDA or HL7 to the JSON message. The *Exercise3: 5 - JSON to DB* and *Exercise3: 6 - JSON to API* channels both accept the same JSON message to perform the workflow:



```
{
   "identifier": "BFCC845D41006636A380C5A520D8F0BF",
   "name": "Tracy",
   "address": "361 Miller Lane",
   "gender": "F",
   "telecom": "",
   "birthDate": "19820101"
}
```