Lab 11. Create a Custom Connector

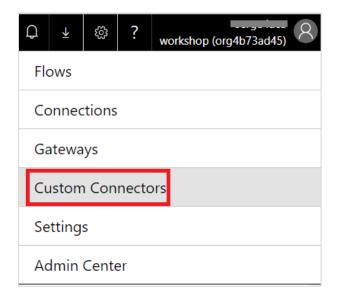
Author: Serge Luca aka "Doctor Flow"

Prerequisites: creating and calling a custom connector requires a Premium connector.

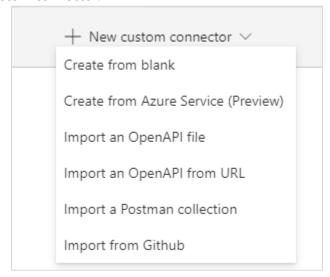
Tasks:

1. Before starting this lab, make sure your API key has been generated. You can reuse the key from the previous lab.

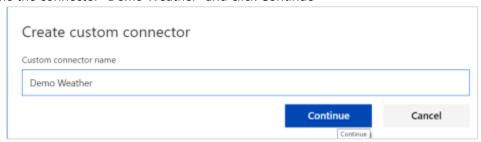
2. Go to the **Connector** menu and select **Custom Connectors**:



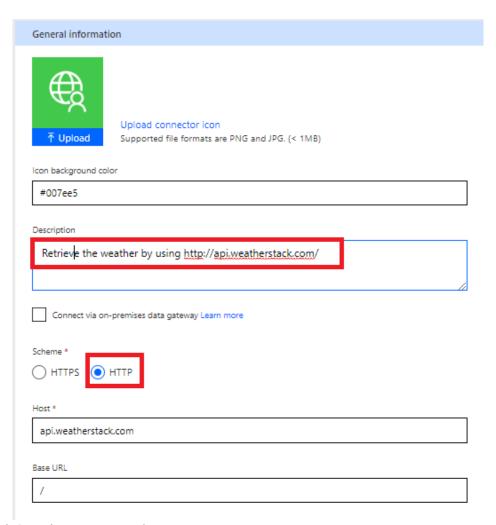
3. Click on **New custom connector**:



- 4. Select Create from blank.
- 5. Name the connector "Demo Weather" and click Continue

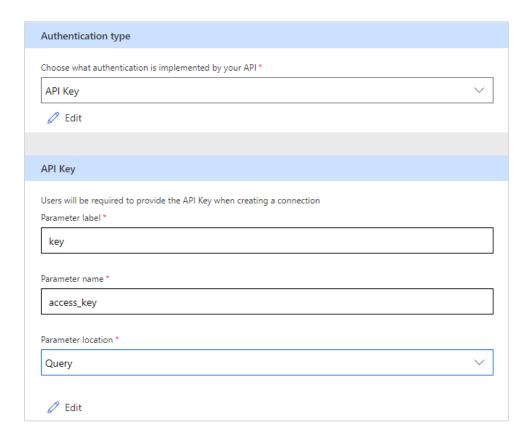


6. Click **Continue** and in the next window, provide the host (**api.weatherstack.com**) and a short description of what your connector does and also select http instead of https:

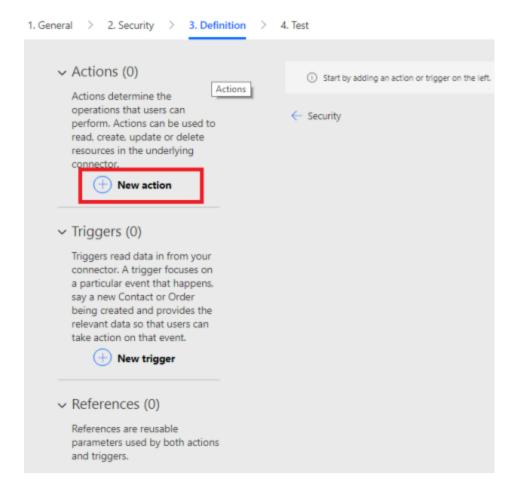


- 7. Click **Security** to move to the next screen.
- 8. The authentication type should be **API key**.

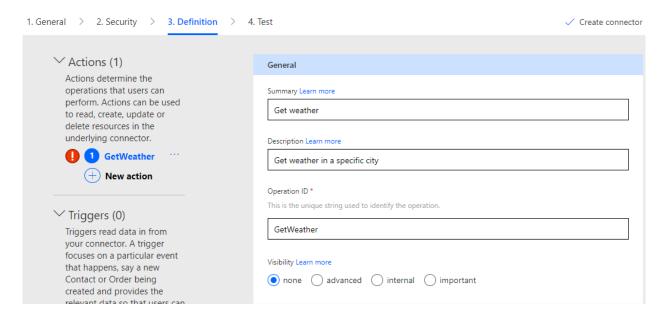
9. Since we want the Key parameter to be provided in the query string, create an API key with **key** as Parameter label and Parameter name; switch the parameter location to Query as illustrated in the following picture:



10. Click **Definition**:



- 11. Click on **New action**:
- 12. Define the Action as follow:

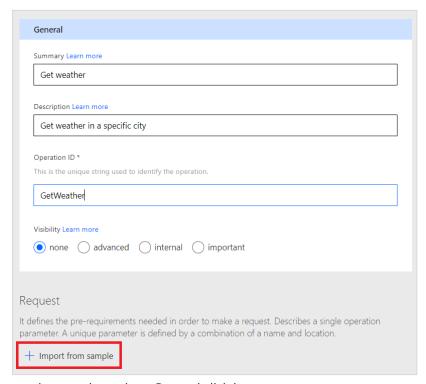


13. In a new browser tab, type a weather request to make sure it works fine and also to generate sample data that we will reuse in our connector definition (don't forget to pass your key as a parameter, as well as the city):

http://api.weatherstack.com/current?access_key=96380665c7c7dc1b14b87493ee253a0d&quer_y=paris_



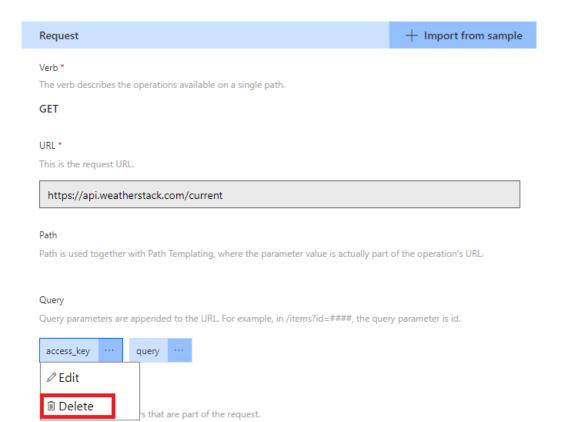
- 14. Keep this tab open and go back to the connector definition.
- 15. Down below in **Request**, click **Import from sample**



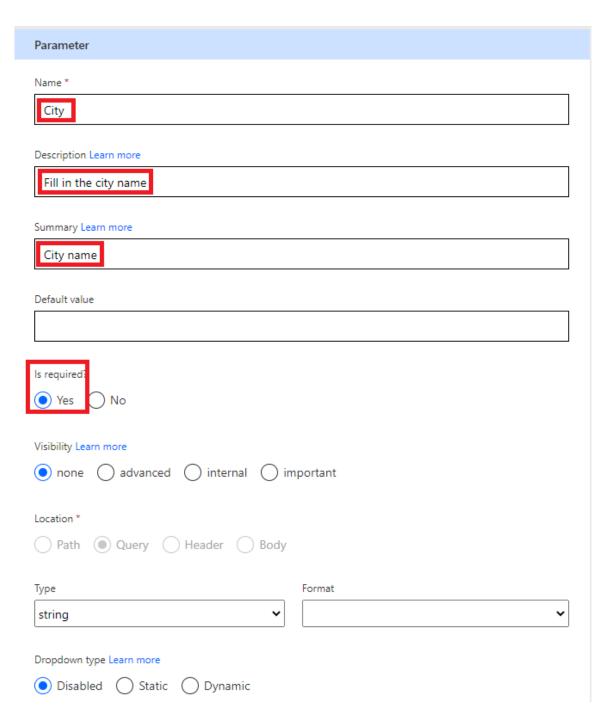
16. Pass your query string, set the verb to **Get** and click import

Verb * GET DELETE POST PUT HEAD OPTIONS PATCH URL * http://api.weatherstack.com/current?access_key=96380665c7c7dc1b1² This is the request URL. Headers Headers Headers separated by a new line, e.g.: Content-Type application/json Accept application/json These are custom headers that are part of the request.

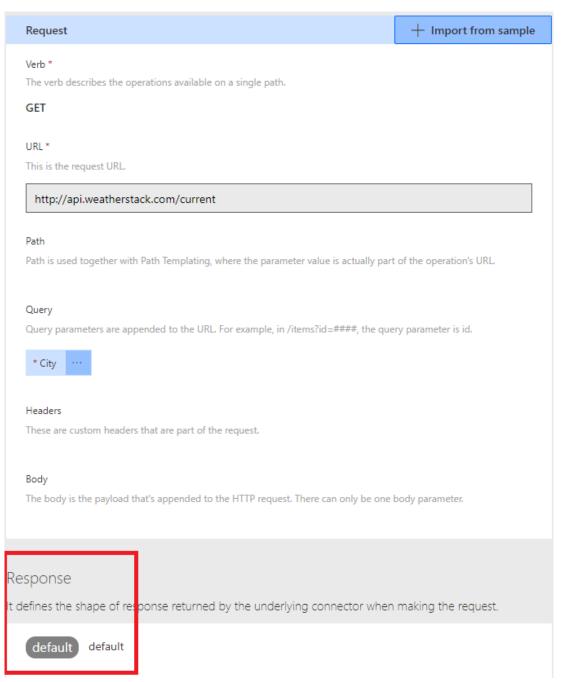
- 17. 2 parameters will be visible in a Query: access_key, query.
- 18. The access_key will be registered in the connector, in such way that there is no need to pass the key for each query; therefore we can delete it:



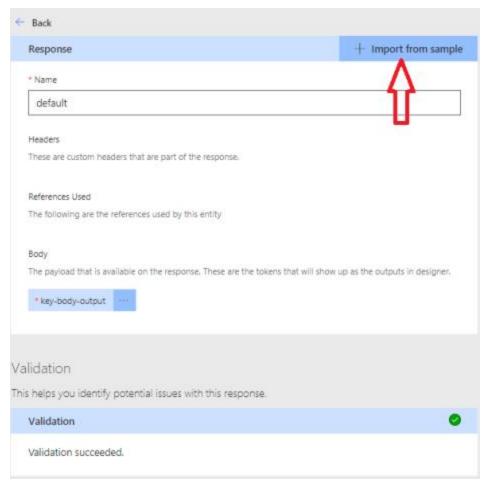
19. Edit the **query** parameter and fill in the **Description** as "Fill in the City Name", **Summary** as "city name" and make the fields required:



20. Click on **Back**, scroll to **Response**, click on **default** to import another sample; the scroll bar is in the middle of the screen as illustrated in the picture:

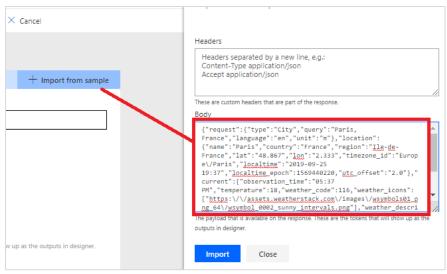


21. In the next window, click on Import from sample:



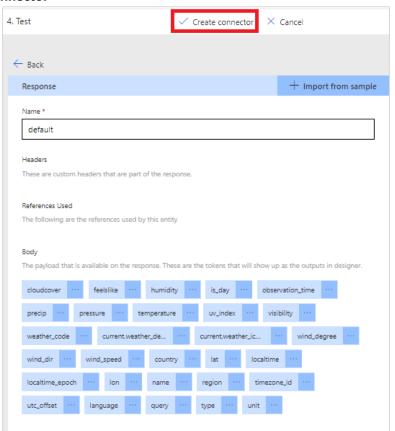
22. ...and in the next window, paste the JSON result grabbed from the browser:

```
{"request":{"type":"City","query":"Paris","language":"en","unit":"m"},"locati
on":{"name":"Paris","country":"France","region":"Ile-de-
France","lat":"48.867","lon":"2.333","timezone_id":"Europe\/Paris","localtime
":"2021-02-15
18:07","localtime_epoch":1613412420,"utc_offset":"1.0"},"current":{"observati
on_time":"05:07
PM","temperature":9,"weather_code":116,"weather_icons":["https:\/\/assets.wea
therstack.com\/images\/wsymbols01_png_64\/wsymbol_0002_sunny_intervals.png"],
"weather_descriptions":["Partly
cloudy"],"wind_speed":15,"wind_degree":190,"wind_dir":"S","pressure":1024,"pr
ecip":0.6,"humidity":71,"cloudcover":75,"feelslike":7,"uv_index":2,"visibilit
y":10,"is day":"yes"}}
```

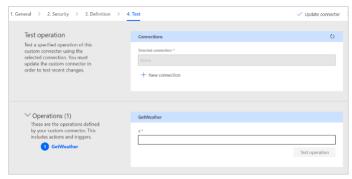


23. Click Import.

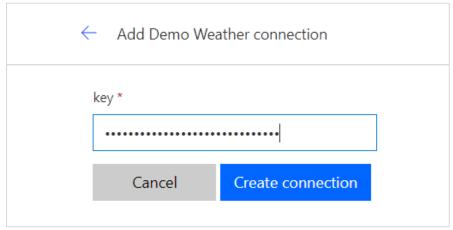
24. Click Create Connector



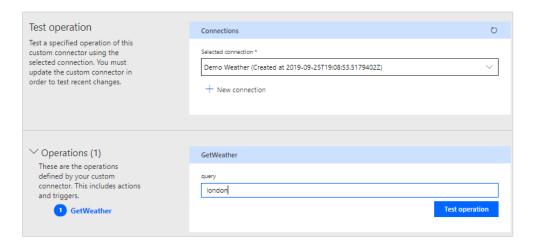
25. You can now test the connector (click Test):



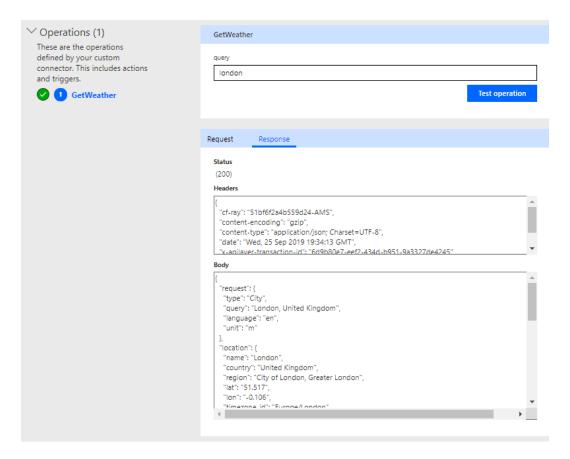
26. However, you need to create a New connection; click on **New connection**, provide your key, and click again on Create connection:



27. You will be redirected to the previous page, where you can click the refresh icon in order to display the new connection:



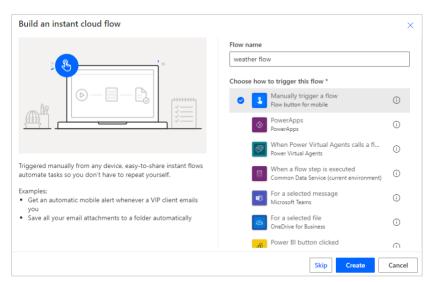
28. Provide a city name, like London, click **Test Operation** and you should get the corresponding weather



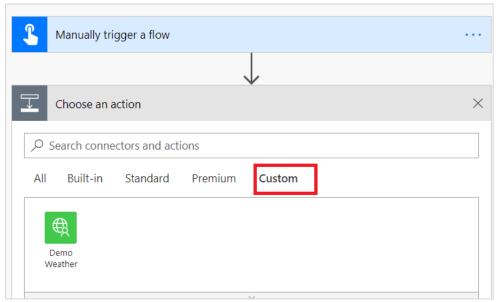
29. Click close, and you will notice that your connector has been created:



30. You can now create an instant Flow from blank to use this custom connector



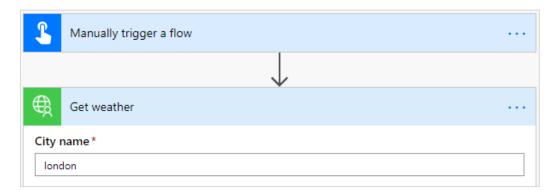
31. Add an "action" from the Custom category; you should find you Demo Weather custom connector:



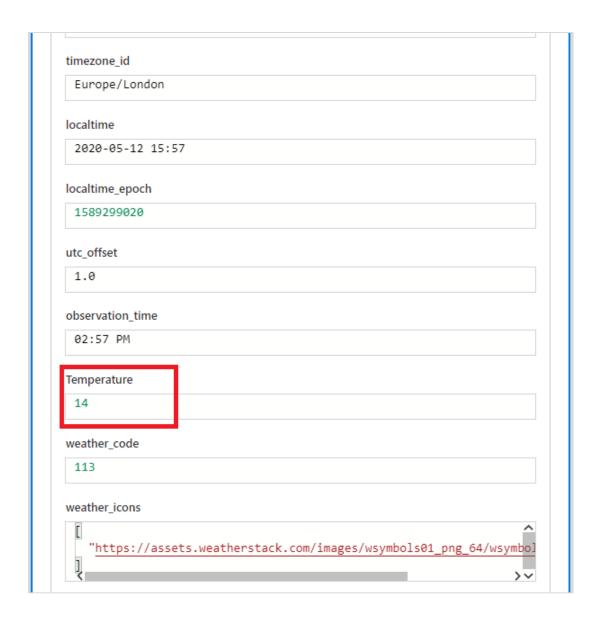
32. Select the **Get Weather** action



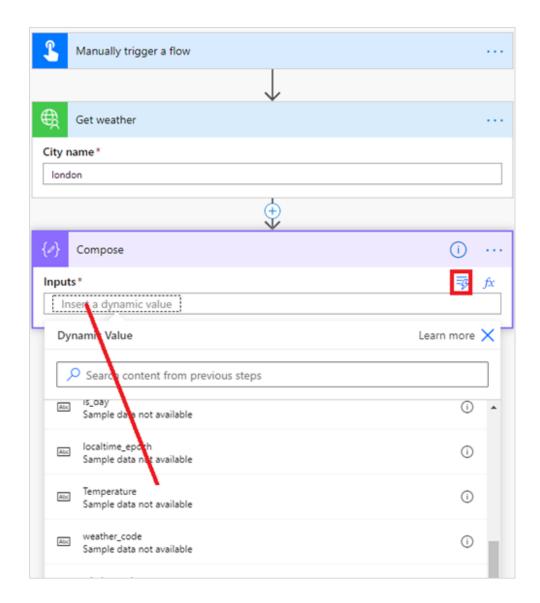
33. Provide London as the city name and save your Flow:



34. Run the Flow and check the output of "Get Weather":



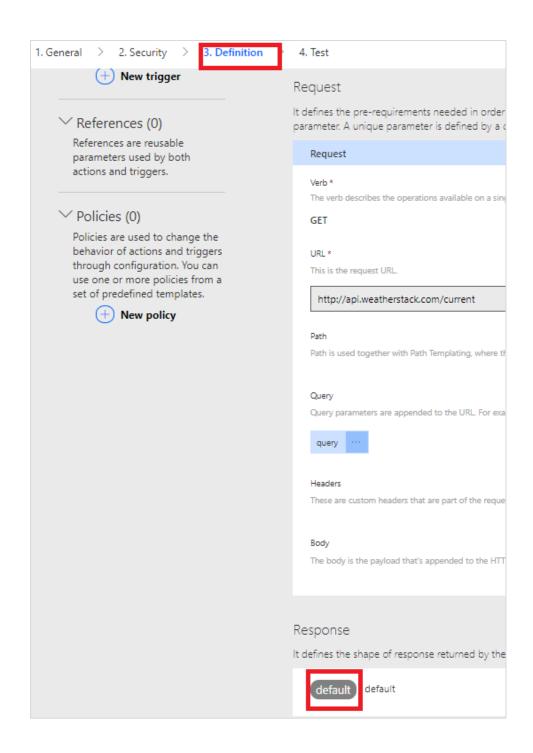
Add a **Compose** and store the **temp**erature value:



- 35. As you can see, using a custom connector is more convenient than using the HTTP action. However we can make it even easier to use for power users: for instance, instead of having to use the name **Temperature**, we can modify the custom connector definition with **temperature in Celcius**.
- 36. Go back to your custom connector definition and click the Edit icon:



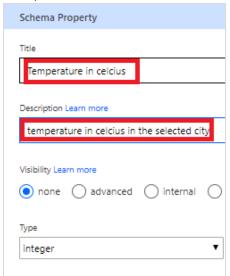
37. Go to Definition and click Default in Response:

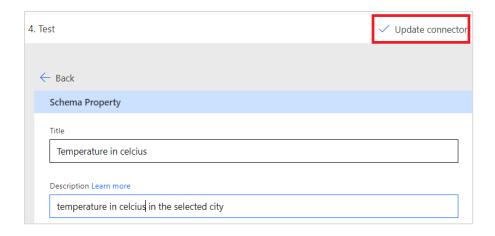


38. Edit temperature:

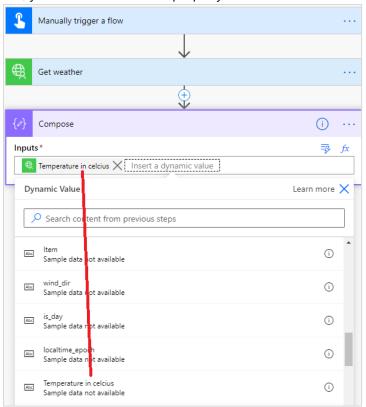


39. Change the Title and the description:





40. Update your Flow; you should see the new property label:



We need your feedback

Do you want to report an issue or to suggest something? We need your feedback: https://github.com/Power-Automate-in-a-day/Training-by-the-community/issues