

## Lab 10. Call an external API from Flow with the HTTP action

**Author:** Serge Luca aka "Doctor Flow"

**Learning objective:** call an external REST API from Flow

**Duration:** 15 minutes

**Prerequisites:** calling an external api requires a Premium connector.

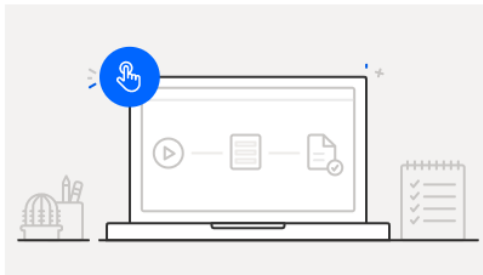
### Tasks:

1. Go to the site <https://weatherstack.com> and sign-up for a free account; you will get a key that you will use in Flow. The key shown in the lab has expired; you should generate a new one.
2. In your browser paste the following query (use your own key for the parameter access\_key).  
[http://api.weatherstack.com/current?access\\_key=96380665c7c7dc1b14b87493ee253a0d&query=paris](http://api.weatherstack.com/current?access_key=96380665c7c7dc1b14b87493ee253a0d&query=paris)
3. You should get a response similar to this one:

```
{
  "request": {
    "type": "City",
    "query": "Paris, France",
    "language": "en",
    "unit": "m",
    "location": {
      "name": "Paris",
      "country": "France",
      "region": "Ile-de-France",
      "lat": "48.867",
      "lon": "2.333",
      "timezone_id": "Europe/Paris",
      "localtime": "2019-09-25 19:37",
      "localtime_epoch": 1569440220,
      "utc_offset": "2.0"
    },
    "current": {
      "observation_time": "05:37 PM",
      "temperature": 18,
      "weather_code": 116,
      "weather_icons": [
        "https://assets.weatherstack.com/images/symbols01_png_64/wsymb0002_sunny_intervals.png"
      ],
      "weather_descriptions": [
        "Partly cloudy"
      ],
      "wind_speed": 19,
      "wind_degree": 220,
      "wind_dir": "SW",
      "pressure": 1008,
      "precip": 0.8,
      "humidity": 68,
      "cloudcover": 75,
      "feelslike": 18,
      "uv_index": 5,
      "visibility": 10,
      "is_day": "yes"
    }
  }
}
```

4. Create Flow a started from a Button, name it **weather**:

### Build an instant flow



Flow name

weather

Choose how to trigger this flow \*

☒ From Microsoft Flow  
Microsoft Flow ⓘ

☐ From PowerApps  
PowerApps ⓘ

Commented [A1]: Mettre a jour

5. Add an HTTP action (this requires P1 licenses)

6. Copy and paste your query in the HTTP action; the value just after "key=" is your private key; the value after q= is the city. The key provided below is probably not valid anymore; you should regenerate a new key.

[http://api.weatherstack.com/current?access\\_key=96380665c7c7dc1b14b87493ee253a0d&query=paris](http://api.weatherstack.com/current?access_key=96380665c7c7dc1b14b87493ee253a0d&query=paris)

The screenshot shows a workflow editor with a blue bar at the top labeled "Manually trigger a flow". Below it is a green bar labeled "HTTP". The configuration for the HTTP action is as follows:

- Method \***: A dropdown menu set to "GET".
- URI \***: A text input field containing the URL `http://api.weatherstack.com/current?access_key=96380665c7c7dc1b14b87493ee253a0d&query=paris`. This field is highlighted with a red rectangle.
- Headers**: A table with two columns, "Enter key" and "Enter value".
- Queries**: A table with two columns, "Enter key" and "Enter value".
- Body**: A text input field labeled "Enter request content".
- Cookie**: A text input field labeled "Enter HTTP cookie".
- At the bottom, there is a link "Show advanced options" with a downward arrow.

7. Save the Flow and run it.

8. Check the output of the HTTP action; you should have something like this:

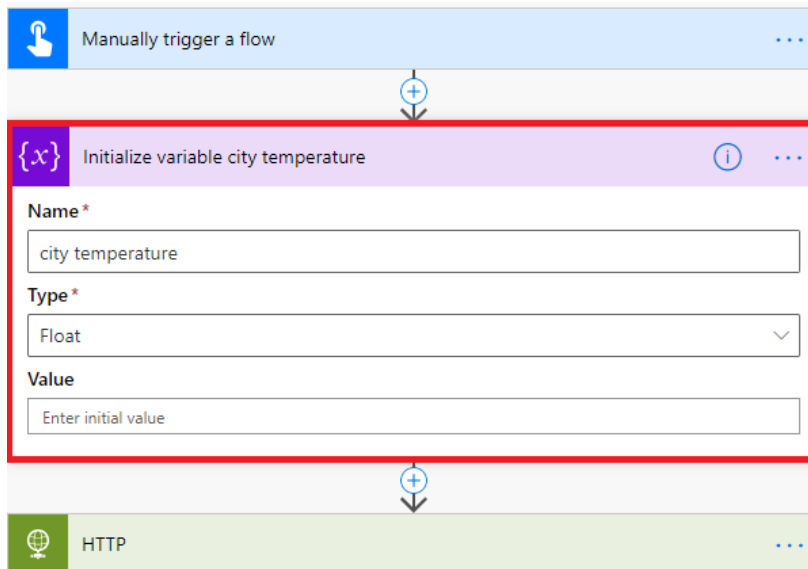
```
{
  "request": {
    "type": "City",
    "query": "Paris, France",
    "language": "en",
    "unit": "m"
  },
  "location": {
    "name": "Paris",
    "country": "France",
```

```

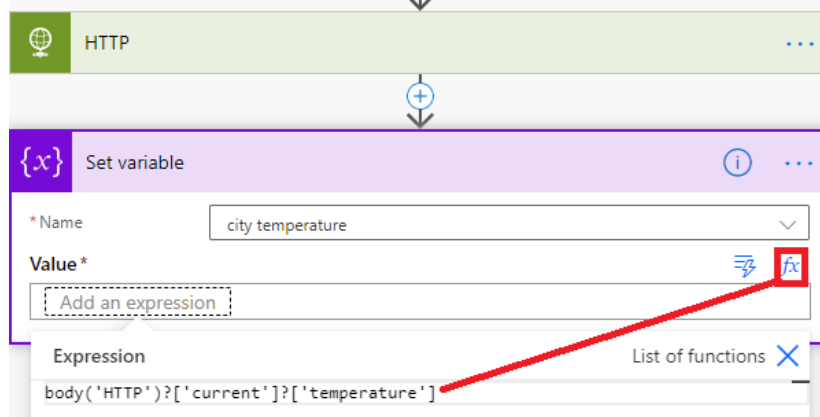
    "region": "Ile-de-France",
    "lat": "48.867",
    "lon": "2.333",
    "timezone_id": "Europe/Paris",
    "localtime": "2019-09-25 19:52",
    "localtime_epoch": 1569441120,
    "utc_offset": "2.0"
  },
  "current": {
    "observation_time": "05:52 PM",
    "temperature": 18,
    "weather_code": 116,
    "weather_icons": [
      "https://assets.weatherstack.com/images/wsymbols01_png_64/wsymbol_0004_black_low_cloud.png"
    ],
    "weather_descriptions": [
      "Partly cloudy"
    ],
    "wind_speed": 24,
    "wind_degree": 240,
    "wind_dir": "WSW",
    "pressure": 1008,
    "precip": 0.8,
    "humidity": 73,
    "cloudcover": 75,
    "feelslike": 18,
    "uv_index": 0,
    "visibility": 10,
    "is_day": "no"
  }
}

```

- Now we will store the current temperature in a variable. Create a string variable named **city temperature**:



10. Add a **Set variable** action that will grab the temperature, by adding a custom expression:



11. Run the Flow and check the variable content.

