

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

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Learning objective: call an external REST API from Flow

Duration: 15 minutes

Prerequisites: calling an external api requires a Premium connector.

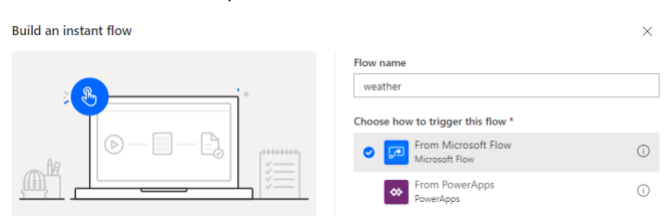
Tasks:

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


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\\wsymbols01_png_64\\wsymbol_0002_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 cloud flow










Triggered manually from any device, easy-to-share instant flows automate tasks so you don't have to repeat yourself.

Examples:

- Get an automatic mobile alert whenever a VIP client emails you
- Save all your email attachments to a folder automatically

Flow name

Choose how to trigger this flow *

- ☒  Manually trigger a flow
Flow button for mobile ⓘ
-  PowerApps
PowerApps ⓘ
-  When Power Virtual Agents calls a fl...
Power Virtual Agents ⓘ
-  When a flow step is executed
Common Data Service (current environment) ⓘ
-  For a selected message
Microsoft Teams ⓘ
-  For a selected file
OneDrive for Business ⓘ
-  Power BI button clicked ⓘ

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

Manually trigger a flow

HTTP

Method *

GET

URI *

http://api.weatherstack.com/current?access_key=96380665c7c7dc1b14b87493ee253a0d&query=paris

Headers

Enter key	Enter value
-----------	-------------

Queries

Enter key	Enter value
-----------	-------------

Body

Enter request content

Cookie

Enter HTTP cookie

Show advanced options

- Save the Flow and run it.
- Check the output of the HTTP action; you should have something like this:

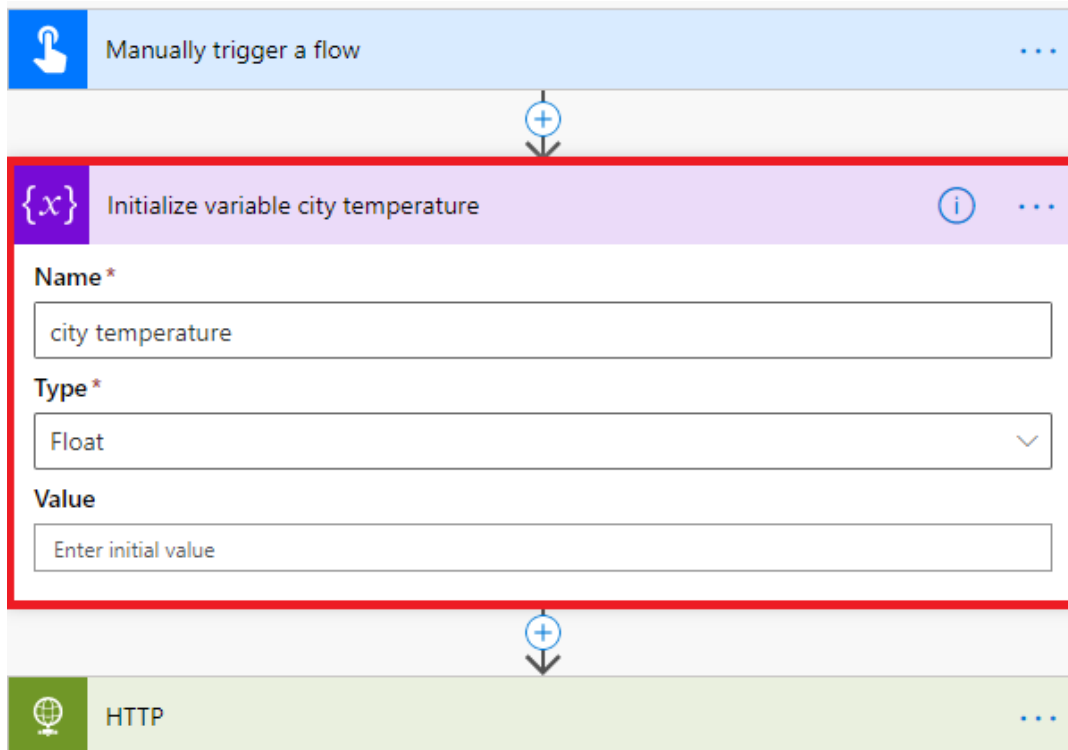
```
{
  "request": {
    "type": "City",
    "query": "Paris, France",
    "language": "en",
    "unit": "m"
  },
  "location": {
    "name": "Paris",
    "country": "France",
    "region": "Ile-de-France",
    "lat": "48.867",
    "lon": "2.333",
    "timezone_id": "Europe/Paris",
    "localtime": "2019-09-25 19:52",
    "localtime_epoch": 1569441120,
    "utc_offset": "2.0"
  }
}
```

```

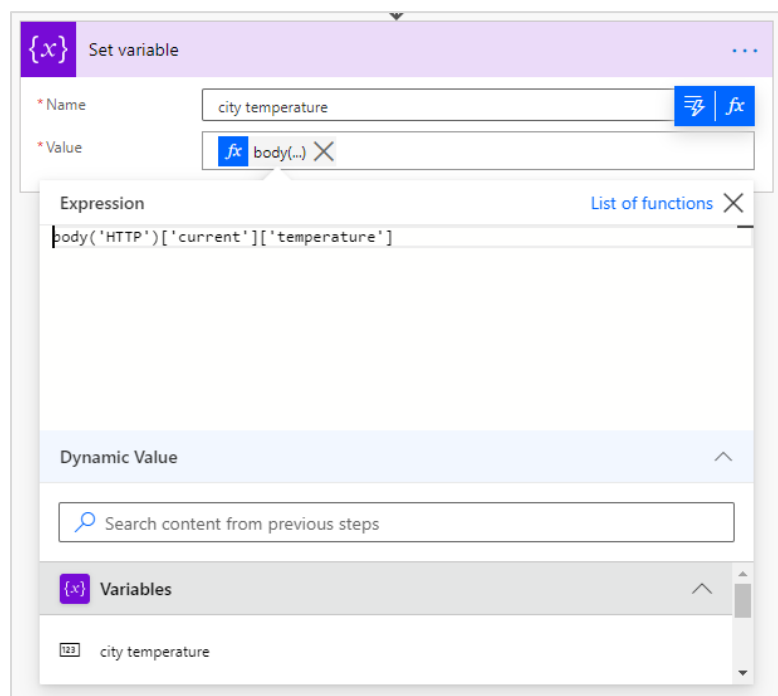
    },
    "current": {
      "observation_time": "05:52 PM",
      "temperature": 18,
      "weather_code": 116,
      "weather_icons": [
        "https://assets.weatherstack.com/images/wsymbols01_png_64/wsymbol_0004_black_low_cloud.png"
      ],
      "weather_descriptions": [
        "Partly cloudy"
      ],
      "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"
    }
  }
}

```

9. 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: `body('HTTP')['current']['temperature']`



11. Run the Flow and check the variable content.

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>