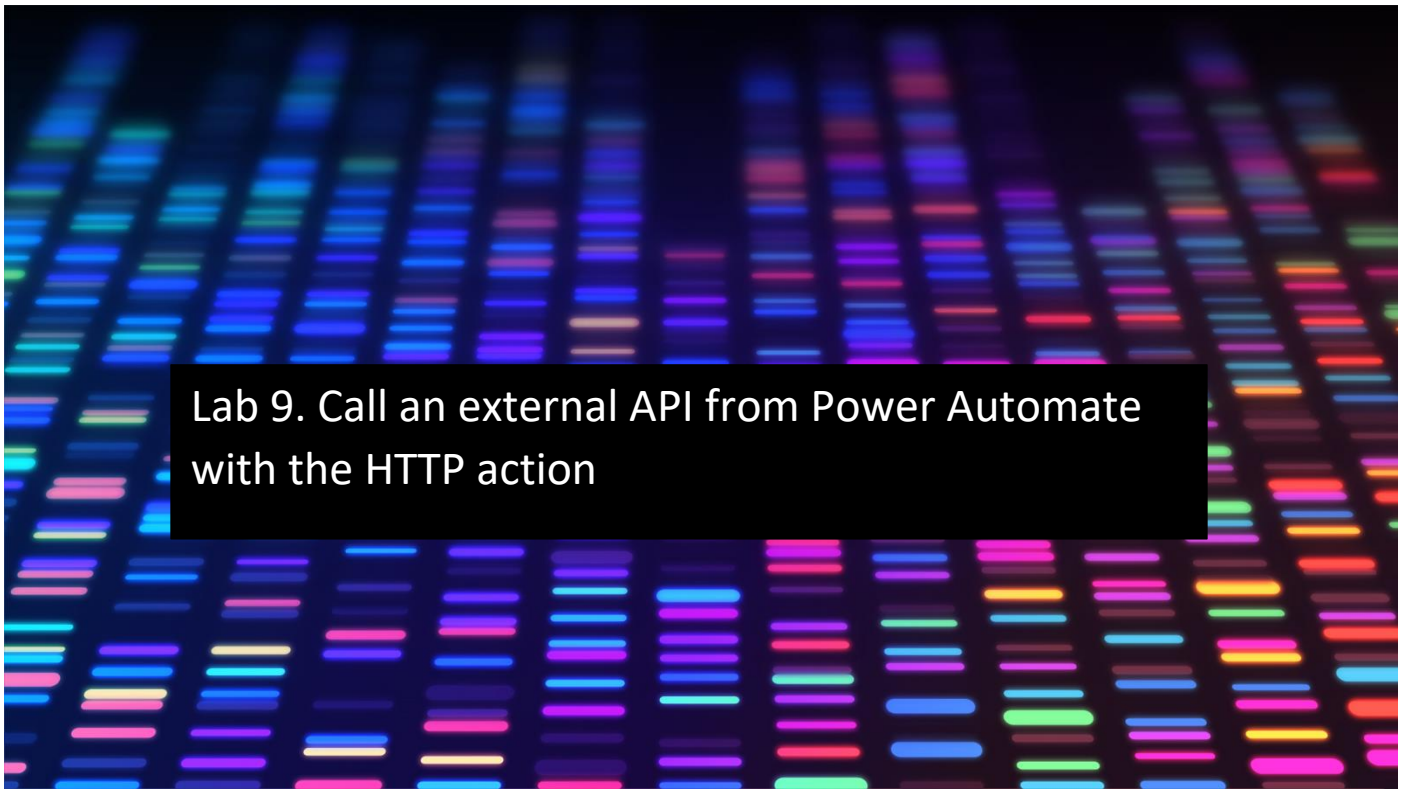

Lab 9. Call an external API from Power Automate
with the HTTP action

Lab 9. Call an external API from Power Automate with the HTTP action

Author: Serge Luca, aka "Doctor Flow"

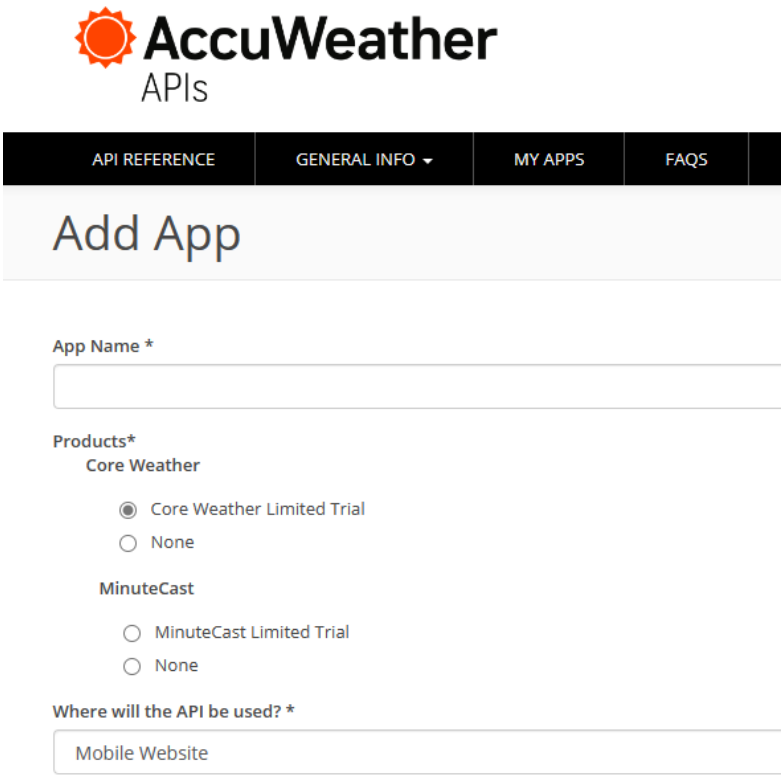
Learning objective: call an external REST API from Flow

Duration: 15 minutes

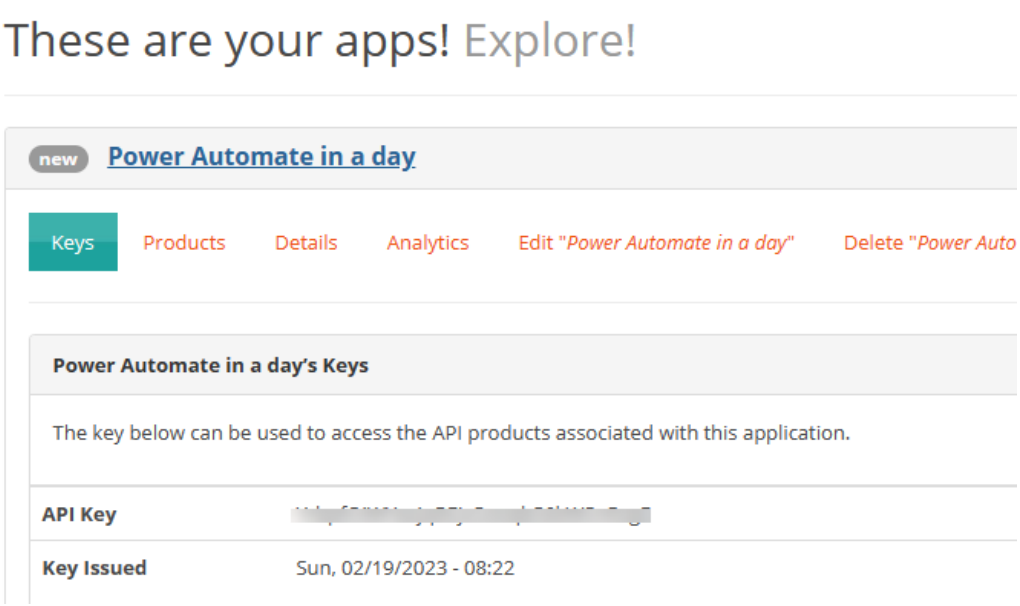
Prerequisites: This exercise aims to call the AccuWeather API to get the weather in a specific city.

Tasks:

1. Go to the site https://developer.accuweather.com/ and register for a free account; log in with your account and create a new App – select the C**ore Weather Limited Trial** product:



An API key will be generated and associated with your flow:



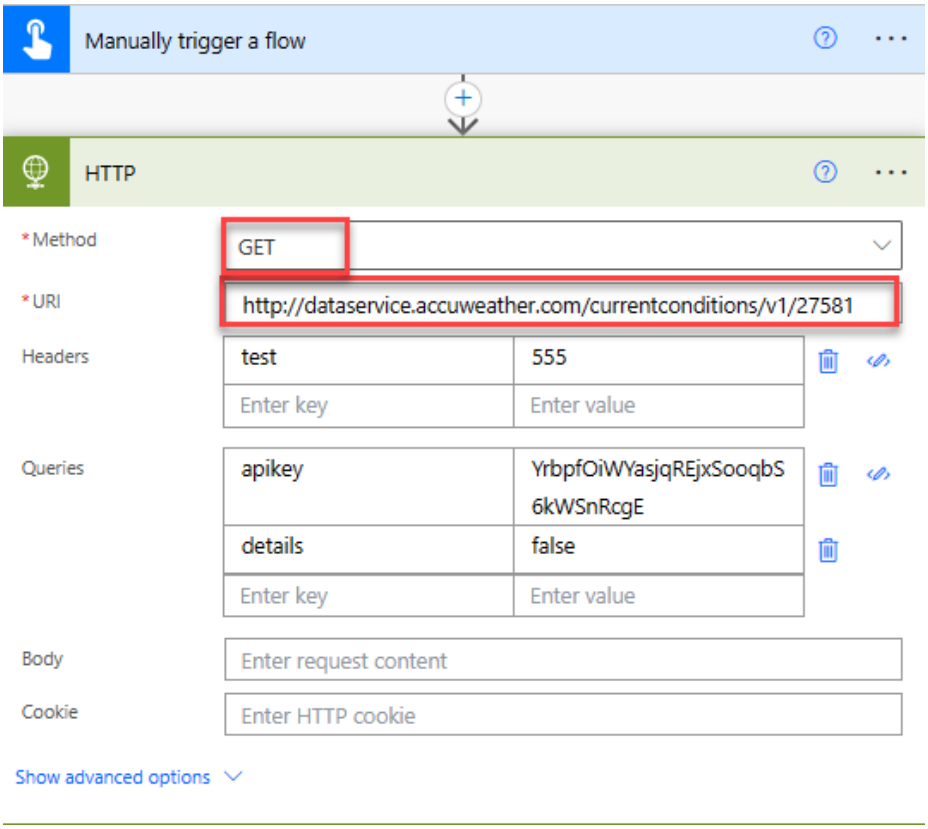
Each location (like a city) can be identified by a specific code called **location key**; let's find the location key of the city "Brussels".

2. In your browser, type
   http://dataservice.accuweather.com/locations/v1/search?q=brussels&apikey=<yourapikey>

   where <yourapikey> is the key provided above.
   Several locations in the world are called Brussels. Select the one in **Belgium**, and copy the key:


```
[{"Version":1,"Key":"27581","Type":"City","Rank":40,"LocalizedName":"Brussels","EnglishName":"Brussels","PrimaryPostalCode":"
{"ID":"BE","LocalizedName":"Belgium","EnglishName":"Belgium"},"AdministrativeArea":{"ID":"BRU","LocalizedName":"Brussels","En
{"Code":"CET","Name":"Europe/Brussels","GmtOffset":1.0,"IsDaylightSaving":false,"NextOffsetChange":"2023-03-26T01:00:00Z"},"G
{"Value":114.0,"Unit":"ft","UnitType":0}}},"IsAlias":false,"SupplementalAdminAreas":[],"DataSets":["AirQualityCurrentConditio
{"Version":1,"Key":"54981","Type":"City","Rank":85,"LocalizedName":"Brussels","EnglishName":"Brussels","PrimaryPostalCode":"N
{"ID":"CA","LocalizedName":"Canada","EnglishName":"Canada"},"AdministrativeArea":{"ID":"ON","LocalizedName":"Ontario","Englis
{"Code":"EST","Name":"America/Toronto","GmtOffset":-5.0,"IsDaylightSaving":false,"NextOffsetChange":"2023-03-12T07:00:00Z"},"
{"Value":1115.0,"Unit":"ft","UnitType":0}}},"IsAlias":false,"SupplementalAdminAreas":[{"Level":2,"LocalizedName":"Huron","Eng
["AirQualityCurrentConditions","AirQualityForecasts","Alerts","ForecastConfidence","FutureRadar","MinuteCast","Radar"]},{"Ver
{"ID":"NAM","LocalizedName":"North America","EnglishName":"North America"},"Country":{"ID":"US","LocalizedName":"United State
{"ID":"IL","LocalizedName":"Illinois","EnglishName":"Illinois","Level":1,"LocalizedType":"State","EnglishType":"State","Count
12T08:00:00Z"},"GeoPosition":{"Latitude":38.95,"Longitude":-90.589,"Elevation":{"Metric":{"Value":151.0,"Unit":"m","UnitType"
[{"Level":2,"LocalizedName":"Calhoun","EnglishName":"Calhoun"}],"DataSets":["AirQualityCurrentConditions","AirQualityForecast
```


3. Create a **Power Automate instant flow;**
4. add the **HTTP** action and provide the following values:



- The **method** must be **GET**
- The **URI**: http://dataservice.accuweather.com/currentconditions/v1/27581
- In Queries:

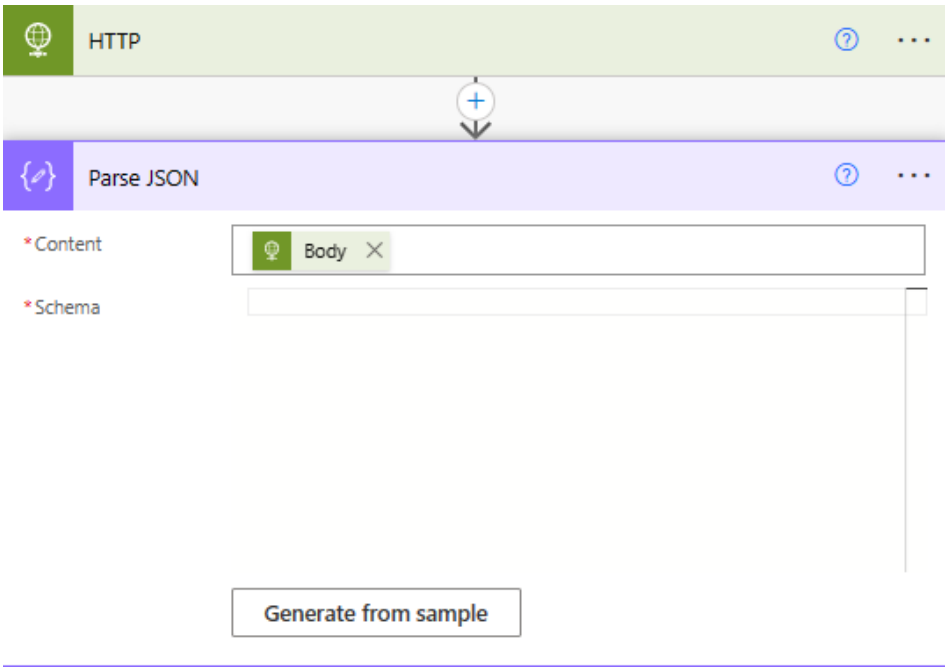
  apikey : <your apikey>
  details: false

5. Save and run the flow. The result value (in the body of the HTTP action looks like this:

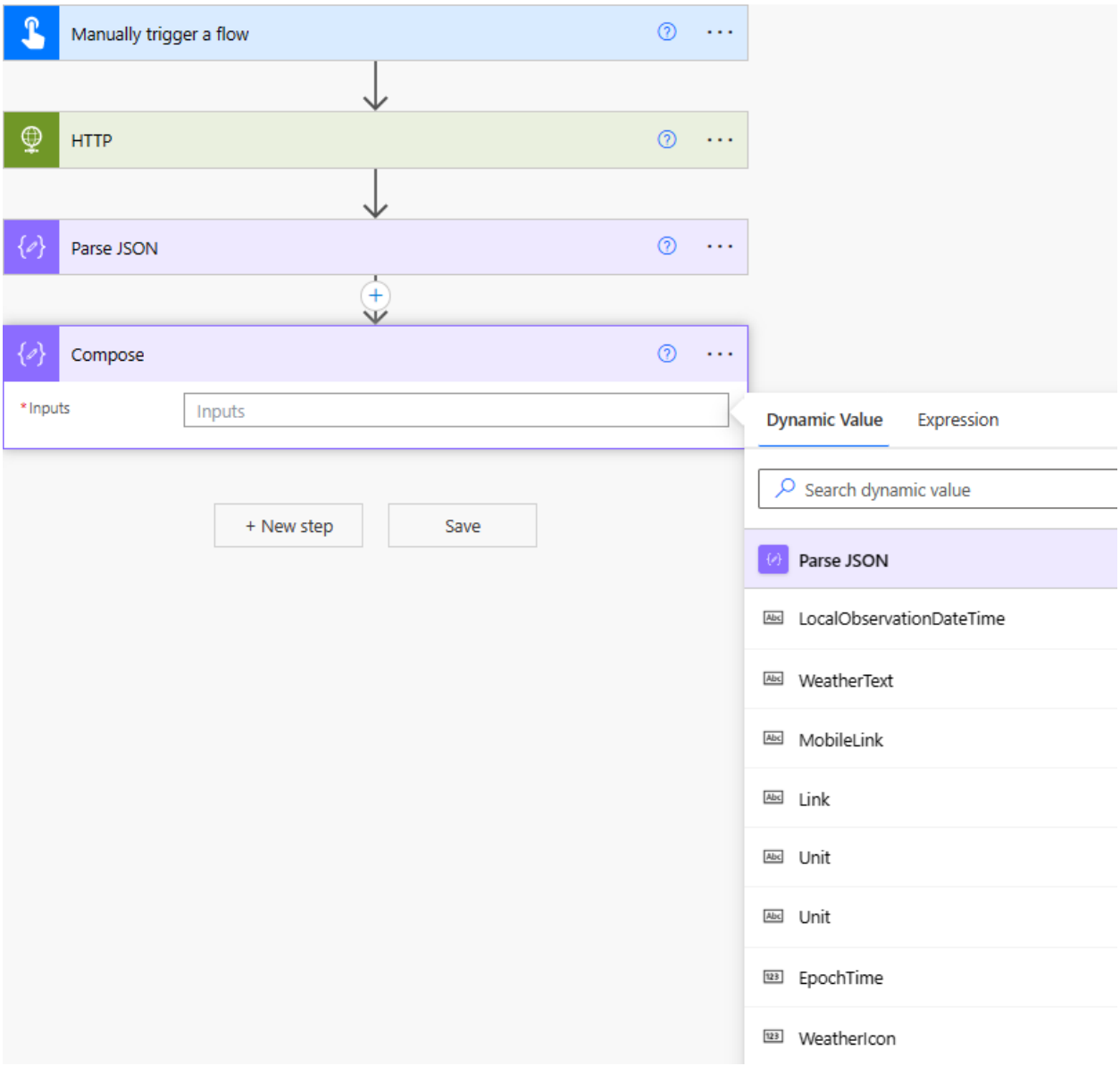

```
[
  {
    "LocalObservationDateTime": "2023-02-19T10:22:00+01:00",
    "EpochTime": 1676798520,
    "WeatherText": "Mostly cloudy",
    "WeatherIcon": 6,
    "HasPrecipitation": false,
    "PrecipitationType": null,
    "IsDayTime": true,
    "Temperature": {
      "Metric": {
        "Value": 9.4,
        "Unit": "C",
        "UnitType": 17
```

```
      },
      "Imperial": {
        "Value": 49,
        "Unit": "F",
        "UnitType": 18
      }
    },
    "MobileLink": "http://www.accuweather.com/en/be/brussels/27581/current-weather/27581?lang=en-us",
    "Link": "http://www.accuweather.com/en/be/brussels/27581/current-weather/27581?lang=en-us"
  }
]
```


6. Copy the return value of the HTTP action into your clipboard.
7. After the HTTP action, add a **Parse JSON** action and connect the Content property to the body of the HTTP action:



8. Click **Generate from sample**, paste the content from your clipboard and click **Done**.
9. Add a compose and bring it the Dynamic value of Parse JSON:



This is a straightforward way to retrieve value from a complex JSON.

However, using the HTTP complex can still be error-prone. Therefore, we will encapsulate the HTTP call into a custom connector in the next lab.