

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

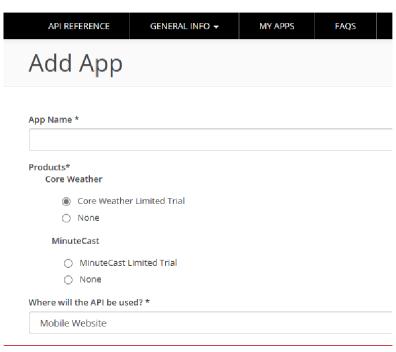
Duration: 15 minutes

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

Tasks:

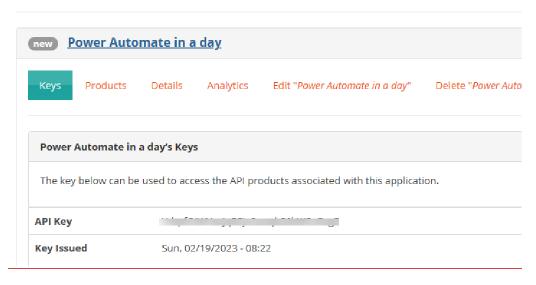
1. Go to the site https://developer.accuweather.com/ and register for a free account; log in with your account and create a new App – select the Core Weather Limited Trial product:





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

These are your apps! Explore!



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.

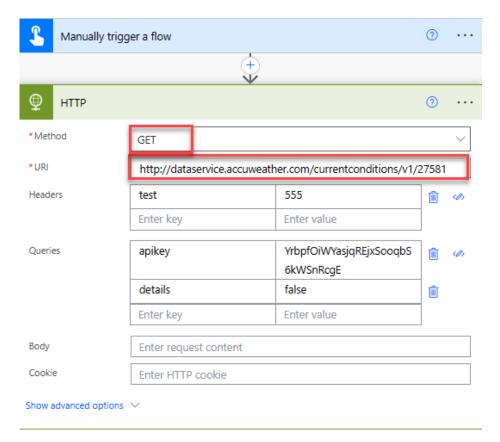
Several locations in the world are called Brussels. Select the one in **Belgium**, and copy the key:

```
[{"Version":1, "Key":"27581", "Type":"City", "Rank":40, "LocalizedName":"Brussels", "EnglishName":"Brussels", "PrimaryPostalCode":"
{"IO":"BE", "LocalizedName": Belgium", "EnglishName":"Belgium"}, "AdministrativeArea":{"IO":"BRU", "LocalizedName":"Brussels", "En
{"Code":"CET", "Name": "Europe/Brussels", "GmtOffset":1.0, "IsDaylightSaving":false, "NextOffsetChange":"2023-03-26T01:00:002"}, "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":"2023-03-12T07:00:002"},
{"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":"North America"), "Country":{"ID":"Us", "LocalizedName":"State", "Country "Potention":" "State", "EnglishType":"State", "Country ", "GeoPosition":{"Latitude":38.95, "Longitude":-90.589, "Elevation":" "Metric":{"Value":15.0, "Unit":"m", "UnitType"
["Level":2, "LocalizedName": "Calhoun", "EnglishName":"Calhoun"}], "DataSets":"AirQualityCurrentConditions", "AirQualityForecast

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```

- 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:

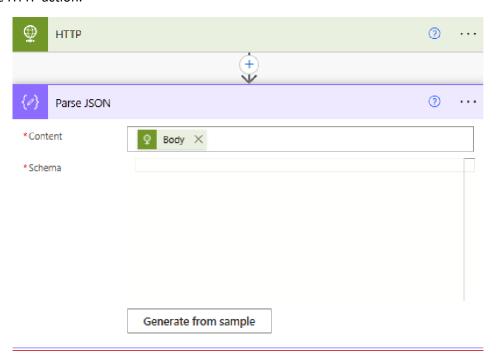
apikey : <your apikey>
details: false

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

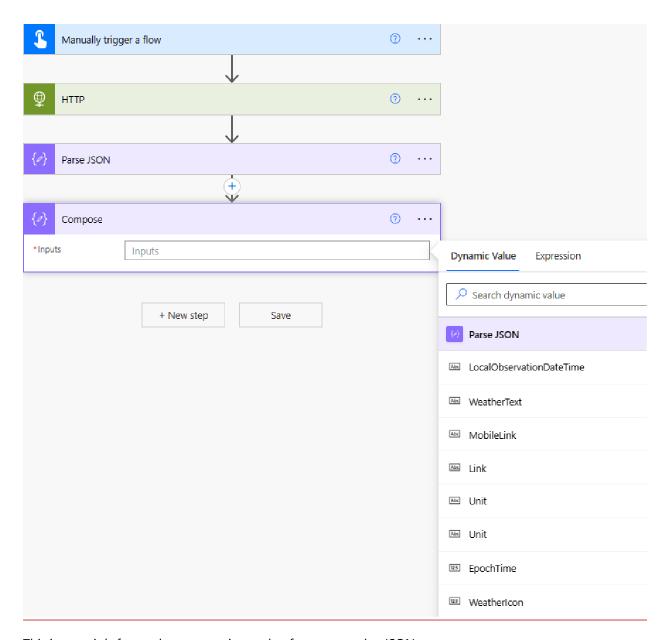
```
[
{
    "LocalObservationDateTime": "2023-02-19T10:22:00+01:00",
    "EpochTime": 1676798520,
    "WeatherText": "Mostly cloudy",
    "WeatherIcon": 6,
    "HasPrecipitation": false,
    "PrecipitationType": null,
    "IsDayTime": true,
    "Temperature": {
        "Metric": {
            "Value":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