



Steps to get data from a Rest api and use it on SSIS (Integration Services)

Python

Create the python script that will extract the data from the API

Create the python script executable file

SSIS (Integration Services)

Create the step Execute Process task to run the executable python file

Create the step Data Flow Task, to read, transform and Load the data

About the data: The data was obtained through the brasil.io portal, there you will find all the documentation related to this data. To use this API you will need a Token

Api: <https://api.brasil.io/v1/dataset/covid19/caso/data/>

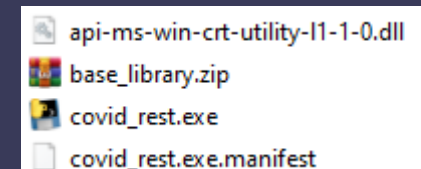
```
import requests
import csv

header = {"Authorization": "Token Your token where"}
url = "https://api.brasil.io/v1/dataset/covid19/caso/data/"

fname = "covid.csv"

request = requests.get(url, headers=header)
dados = request.json()
# print(dados["results"])

with open(fname, "w") as file:
    csv_file = csv.writer(file)
    csv_file.writerow(["city", "date", "confirmed", "deaths"])
    for item in dados["results"]:
        csv_file.writerow([item['city'], item['date'],
                           item['confirmed'], item['deaths']])
```



- api-ms-win-crt-utility-l1-1-0.dll
- base_library.zip
- covid_rest.exe
- covid_rest.exe.manifest

Windows PowerShell

PS C:\Users\cclaud\Documentos\Python\Covid_Api> pyinstaller --noconfirm .\covid_rest.py

At the Integration Services

The screenshot displays the 'Execute Process Task Editor' window in SQL Server Data Tools. The 'Process' tab is selected in the left-hand pane. The main area shows the configuration for running a Win32 executable. A file explorer window is open in the top right, showing the contents of a folder: 'api-ms-win-crt-utility-l1-1-0.dll', 'base_library.zip', 'covid_rest.exe' (highlighted with a red box), and 'covid_rest.exe.manifest'. Red arrows point from the 'Executable' and 'WorkingDirectory' fields in the task editor to the 'covid_rest.exe' file and its directory in the file explorer, respectively. A text box in the bottom right explains the working directory.

Configure the properties used to run a Win32 executable or a batch file as part of the package.

General
Process
Expressions

Property	Value
RequireFullFileName	True
Executable	C:\Users\Administrator\Documents\API_COVID\covid_rest.exe
Arguments	covid_rest.py
WorkingDirectory	C:\Users\Administrator\Documents\Projetos_ETL\SSIS\Covid19\Download
StandardInputVariable	
StandardOutputVariable	
StandardErrorVariable	
FailTaskIfReturnCodeIsNotSuccessValue	True
SuccessValue	0
TimeOut	0
TerminateProcessAfterTimeOut	True
WindowStyle	Normal

RequireFullFileName
Indicates whether the task fails when the executable is not found on the specified path.

OK Cancel Help

Here will be the directory where the downloaded data will be deposited