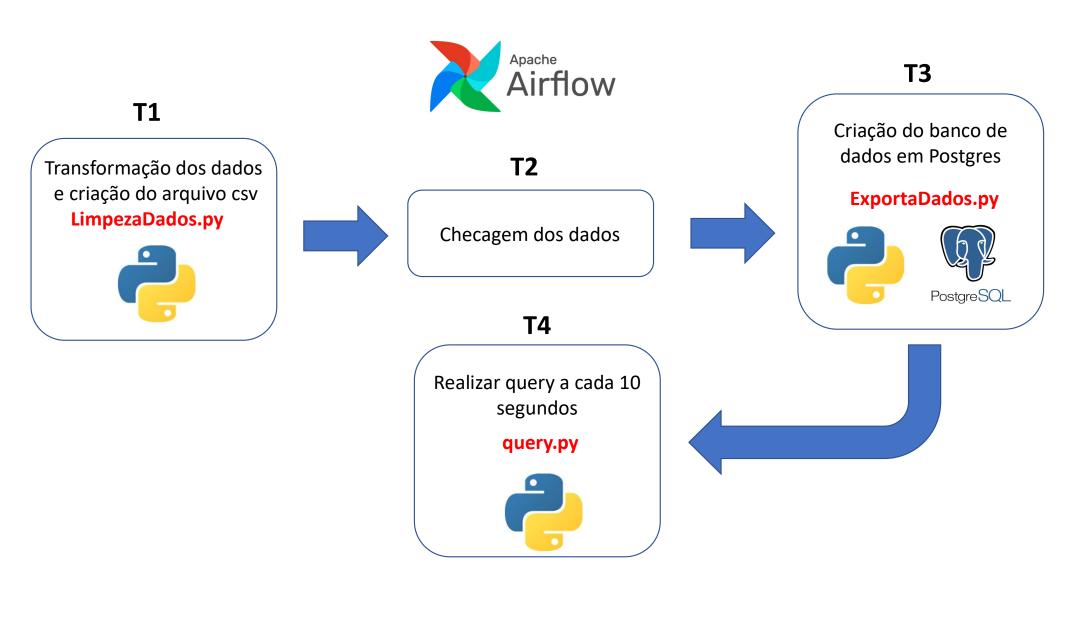
Ferramentas empregadas no teste





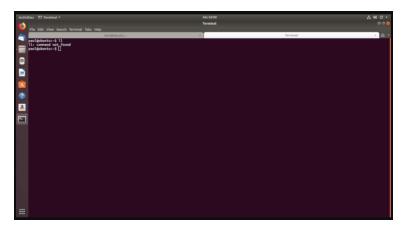


Softwares necessários para abrir o código

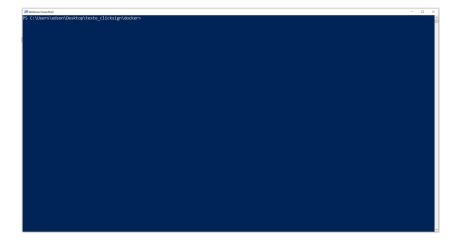
Docker Desktop para o pipeline Python

- Pandas
- Matplotlib
- Seaborn

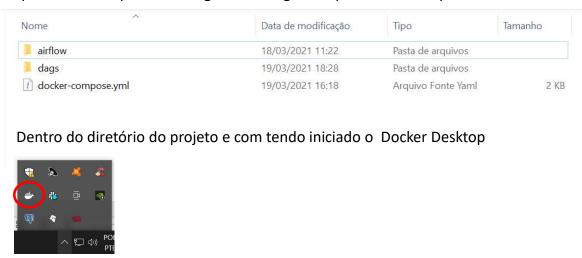
Terminal no caso do Linux



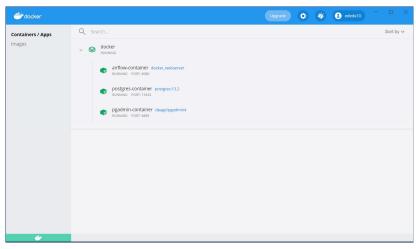
Powershell ou prompt de comando no caso do Windows



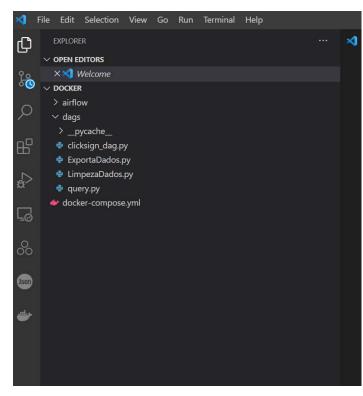
Após clonar o repositório no github as seguintes pastas irão compor o diretório



Digite no powershell ou no prompt de comando o seguinte comando docker-compose up -d As imagens serão baixadas e os containeres serão criados baseado no arquivo docker-compose.yml 3 containeres serão gerados



O arquivo clicksign_dag.py contém o código do dag que o Airflow utilizará para orquestrar as tarefas



docker ps para checar os containeres que estão rodando

```
PS C:\Users\edson\Desktop\teste_clicksign\docker> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
e0b383970039 docker_webserver "/entrypoint.sh" 3 hours ago Up Less than a second (health: starting) 0.0.0.0:8080->8080/tcp airflow-container
a964e693f4c6 postgres:13.2 "docker-entrypoint.s..." 3 hours ago Up Less than a second 0.0.0:15432->5432/tcp postgres-container
PS C:\Users\edson\Desktop\teste_clicksign\docker>
```

docker inspect + as primeiras letras do ID do container

```
PS C:\Users\edson\Desktop\teste_clicksign\docker> docker inspect a9
```

```
☑ Windows PowerShell

                "docker_clicksign_network": {
                   "IPAMConfig": null,
                   "Links": null,
                   "Aliases": [
                       "db",
                       "a964e693f4c6"
                   "NetworkID": "a3c117983d09a8719f0196464dfb1fed15516c5ec6557bd7b3b7ac28d142a58b",
                   "EndpointID": "8e830971fa3005423c0891929b96dd5c74c3cbdacc0c18982b8468060884fc90",
                   "Gateway": "172 23 0 1"
               "IPAddress": "172.23.0.3",
                   "IPPrefixLen": 16,
                   "IPv6Gateway": "",
                   "GlobalIPv6Address": "",
                   "GlobalIPv6PrefixLen": 0,
                   "MacAddress": "02:42:ac:17:00:03",
                   "DriverOpts": null
```

O IPAddress é utilizado como Host para ter acesso ao banco de dados

Trocando Host de acordo com o valor checado no docker inspect

```
import psycopg2
import math
import pandas as pd
import time

host = '172.23.0.3'
port = 3+32
db_name = 'postgres'
username = 'edson'
password = 'clicksign'

# Create connection
conn = psycopg2.connect(host = host, port = port, dbname = db_name, user = username, password = password)

# Create a cursor object
cur = conn.cursor()

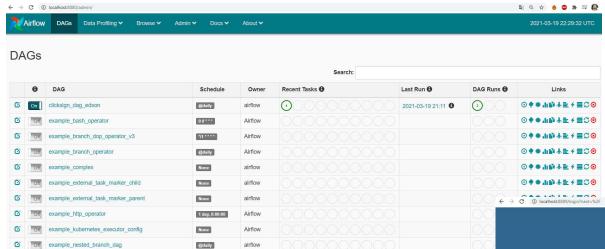
# executar query (criando tabela)

# executar query (criando tabela)

# ff = pd.read_csv('/usr/local/airflow/dags/clicksign_df.csv')
linhas = df.shape[0]
limite = 1630
repeticoes = math.ceil(linhas/limite)

def query_limite(limite_inferior, limite_superior):
```

A troca do Host deve ser feita nos arquivos ExportaDados.py e query.py No navegador abra duas abas Uma para o airflow e digite localhost:8080 E outra para o pgadmin, digite localhost:8889



O DAG responsável por organizar as tarefas é o click_dag_edson

As duas aplicações estão rodando nos containeres que foram criados na mesma rede

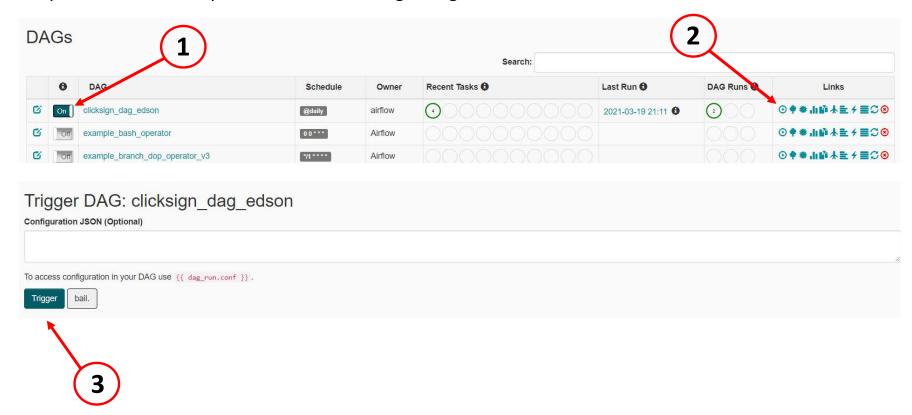
Para acessar o pgadmin edson.costa@hotmail.com

Senha: clicksign

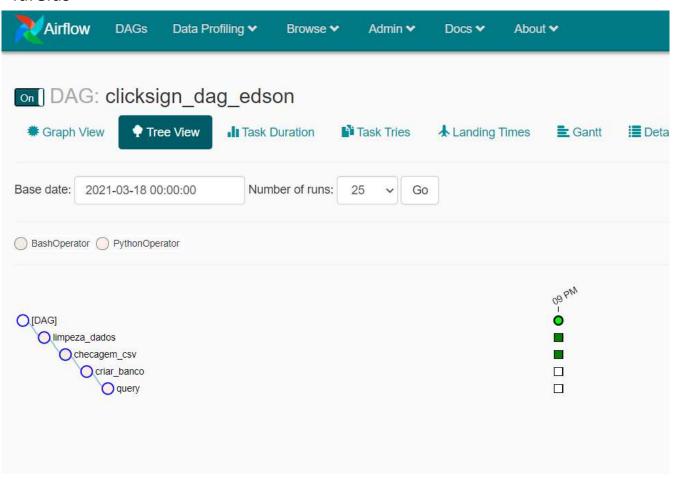
example_passing_params_via_test_command



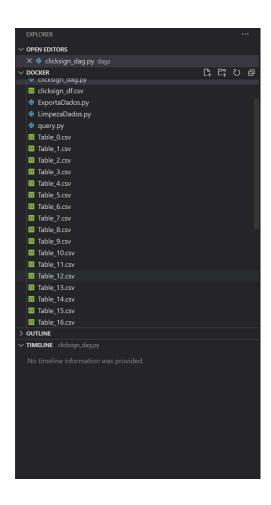
Clique no botão ON e posteriormente no triger dag



Tarefas



A cada 10 segundos é processado 1630 registros e são salvos em um csv que fica armazenado na pasta dags



clicksign_dag.py	19/03/2021 19:41	Arquivo Fonte Python	2 KB
clicksign_df.csv	19/03/2021 19:41	Microsoft Excel Com	5.767 KB
ExportaDados.py	19/03/2021 16:31	Arquivo Fonte Python	2 KB
LimpezaDados.py	19/03/2021 13:35	Arquivo Fonte Python	4 KB
query.py	19/03/2021 18:08	Arquivo Fonte Python	2 KB
Table_0.csv	19/03/2021 19:44	Microsoft Excel Com	190 KB
Table_1.csv	19/03/2021 19:44	Microsoft Excel Com	190 KB
Table_2.csv	19/03/2021 19:44	Microsoft Excel Com	190 KB
Table_3.csv	19/03/2021 19:45	Microsoft Excel Com	191 KB
Table_4.csv	19/03/2021 19:45	Microsoft Excel Com	191 KB
Table_5.csv	19/03/2021 19:45	Microsoft Excel Com	191 KB
Table_6.csv	19/03/2021 19:45	Microsoft Excel Com	193 KB
Table_7.csv	19/03/2021 19:45	Microsoft Excel Com	192 KB
Table_8.csv	19/03/2021 19:45	Microsoft Excel Com	192 KB
Table_9.csv	19/03/2021 19:46	Microsoft Excel Com	192 KB
Table_10.csv	19/03/2021 19:46	Microsoft Excel Com	192 KB
Table_11.csv	19/03/2021 19:46	Microsoft Excel Com	193 KB
Table_12.csv	19/03/2021 19:46	Microsoft Excel Com	193 KB
Table_13.csv	19/03/2021 19:46	Microsoft Excel Com	192 KB
Table_14.csv	19/03/2021 19:46	Microsoft Excel Com	193 KB
Table_15.csv	19/03/2021 19:47	Microsoft Excel Com	192 KB
Table_16.csv	19/03/2021 19:47	Microsoft Excel Com	192 KB
Table_17.csv	19/03/2021 19:47	Microsoft Excel Com	193 KB
Table_18.csv	19/03/2021 19:47	Microsoft Excel Com	192 KB
Table_19.csv	19/03/2021 19:47	Microsoft Excel Com	193 KB
Table_20.csv	19/03/2021 19:47	Microsoft Excel Com	196 KB
Table_21.csv	19/03/2021 19:48	Microsoft Excel Com	195 KB
Table_22.csv	19/03/2021 19:48	Microsoft Excel Com	195 KB
Table_23.csv	19/03/2021 19:48	Microsoft Excel Com	196 KB
Table_24.csv	19/03/2021 19:48	Microsoft Excel Com	195 KB
Table_25.csv	19/03/2021 19:48	Microsoft Excel Com	196 KB
Table_26.csv	19/03/2021 19:49	Microsoft Excel Com	196 KB
Table_27.csv	19/03/2021 19:49	Microsoft Excel Com	195 KB
Table_28.csv	19/03/2021 19:49	Microsoft Excel Com	196 KB
Table_29.csv	19/03/2021 19:49	Microsoft Excel Com	188 KB

