1) Stop the existing Docker services

```
[ec2-user@ip-172-31-36-138 dap_pstm]$ docker container stop ptsm_api
ptsm_api
[ec2-user@ip-172-31-36-138 dap_pstm]$ docker container rm ptsm_api
ptsm_api
[ec2-user@ip-172-31-36-138 dap_pstm]$
```

2) Git pull; for the new code

```
[ec2-user@ip-172-31-36-138 dap_pstm]$ git pull
remote: Enumerating objects: 85, done.
remote: Counting objects: 100% (85/85), done.
remote: Compressing objects: 100% (68/68), done.
remote: Total 124 (delta 47), reused 25 (delta 17), pack-reused 39
Receiving objects: 100% (124/124), 123.89 KiB | 11.26 MiB/s, done.
Resolving deltas: 100% (64/64), completed with 9 local objects.
From https://github.com/vg00164/dap_pstm
   d030de7..ce1c245  master     -> origin/master
Updating d030de7..ce1c245
Fast-forward
 API/Dockerfile                          |   1 -
 Database/Create Stored Procedures.sql   |  48 +++++++++++++++++++++++
 Database/Create_Topics.sql              |   4 +-
 Database/DB_Objects.sql                 |   6 +--
 Database/Data_Model.pdf                 | Bin 17657 -> 31578 bytes
 Database/Topics_metadata.sql            |   5 ---
 README.md                               |   9 +++-
 TwitterData/dataServices.py             |  39 +++++++++++++++++-
 TwitterData/saveconfig.py               |   5 +++
 TwitterData/tweetData.py                |  49 +++++++++++++++-------
 TwitterData/watsonNLU.py                |  51 ++++++++++++++++++++++
 UI/index.html                           | 307 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++------------------------
 UI/styles.css                           |  38 ++++++++++++++-
 imgs/MVP-DataModel.png                  | Bin 117431 -> 66856 bytes
 requirements.txt                        |   1 +
 test/metadata.json                      |   4 ++
 test/test.py                            |  15 ++++++-
 test/testwatson.py                      |  36 ++++++++++++++++
 test/weather_data_train.csv             |   1 +
 19 files changed, 403 insertions(+), 216 deletions(-)
 delete mode 100644 Database/Topics_metadata.sql
 create mode 100644 TwitterData/watsonNLU.py
 create mode 100644 test/metadata.json
 create mode 100644 test/testwatson.py
 create mode 100644 test/weather_data_train.csv
[ec2-user@ip-172-31-36-138 dap_pstm]$
```

3) Clean-up old docker images

```
[ec2-user@ip-172-31-36-138 dap_pstm]$ pwd
/home/ec2-user/project/dap_pstm
[ec2-user@ip-172-31-36-138 dap_pstm]$ docker system prune
WARNING! This will remove:
        - all stopped containers
        - all networks not used by at least one container
        - all dangling images
        - all build cache
Are you sure you want to continue? [y/N] y
Deleted Images:
deleted: sha256:c80d98f0fd58c97196fea0c5675aa3a3d7fca3f60a5389e02d221c2da574401e
deleted: sha256:cbddb8074515b65c9720462a2e6d1e2671745103f26e7efefe049f0f3dd4209f
deleted: sha256:550e386e80d959799ca1e38523279e2b12d25ae577b54f125c0024cf667ee4d8
deleted: sha256:1116b84fc61802c7870b619072d39c16e1faf88ba532dc51dfef0fe8451ace78
deleted: sha256:b3461a66a8b95997fce374daee77f48173603f738d728d7687b295560b852a4d
deleted: sha256:cba362a086ddfc406ae5fda0aa25812f5aa20b1983aa8457a30bc415c37def33
deleted: sha256:9714729832b7996f74813af3d04bde7150d1b9333e32e73f0f43a7a4e99beed6
deleted: sha256:dcb83a206f7ce9b1a5655bea2df2933052b2eca60b7ac8fba84d395a1f70819b
deleted: sha256:de9d6a2f25c90628da555180249a6de6d4842f410179b994d4ef7b3da8cf0a67
deleted: sha256:e1806c054f18e0ae4f3f33c201582552d716304b78851b54b3f5b45aa0f2ba82

Total reclaimed space: 268.2MB
[ec2-user@ip-172-31-36-138 dap_pstm]$
```

4) Build the image

```
[ec2-user@ip-172-31-36-138 dap_pstm]$ pwd
/home/ec2-user/project/dap_pstm
[ec2-user@ip-172-31-36-138 dap_pstm]$ docker build -t rest_api_ptsm -f API/Dockerfile .
Sending build context to Docker daemon  12.22MB
Step 1/7 : FROM python:3.6-slim
 ---> b75ddbd45c17
Step 2/7 : COPY . /app
 ---> 2193c764bba0
Step 3/7 : RUN apt-get update
 ---> Running in 7310f7935336
Ign:1 http://deb.debian.org/debian stretch InRelease
Get:2 http://deb.debian.org/debian stretch-updates InRelease [91.0 kB]
Get:3 http://deb.debian.org/debian stretch Release [118 kB]
Get:4 http://security.debian.org/debian-security stretch/updates InRelease [94.3 kB]
Get:5 http://deb.debian.org/debian stretch Release.gpg [2434 B]
Get:6 http://deb.debian.org/debian stretch-updates/main amd64 Packages [31.7 kB]
Get:7 http://deb.debian.org/debian stretch/main amd64 Packages [7082 kB]
Get:8 http://security.debian.org/debian-security stretch/updates/main amd64 Packages [487 kB]
Fetched 7907 kB in 1s (4821 kB/s)
Reading package lists...
Removing intermediate container 7310f7935336
 ---> 977cf8ce572d
Step 4/7 : RUN pip3 install --upgrade pip
 ---> Running in 0a365695aa42
```

5) Open the http port 80 on the EC2 instance