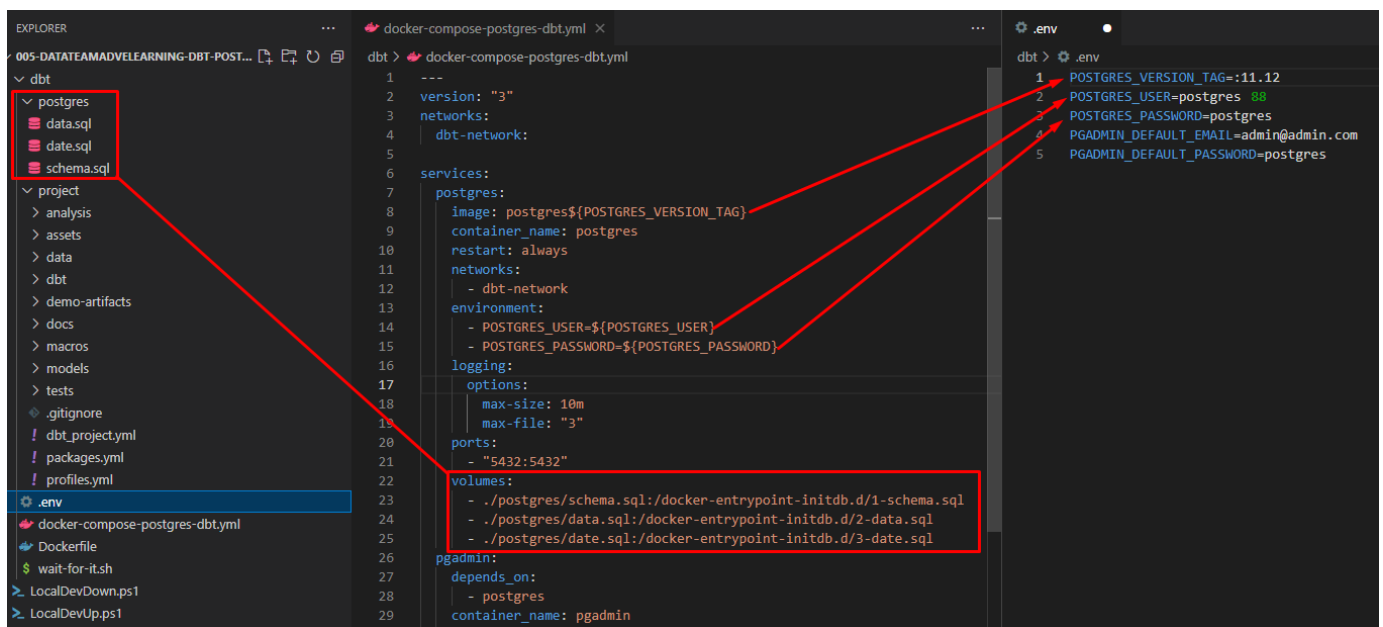


How to customize the Docker – DBT – PostgreSQL project

Know where the config files of PostgreSQL are

- The SQL files are in: **dbt/postgres** folder
- The docker-compose YML file to start the project is in: **dbt/ docker-compose-postgres-dbt.yml**
- The environment config file is in: **dbt/.env**

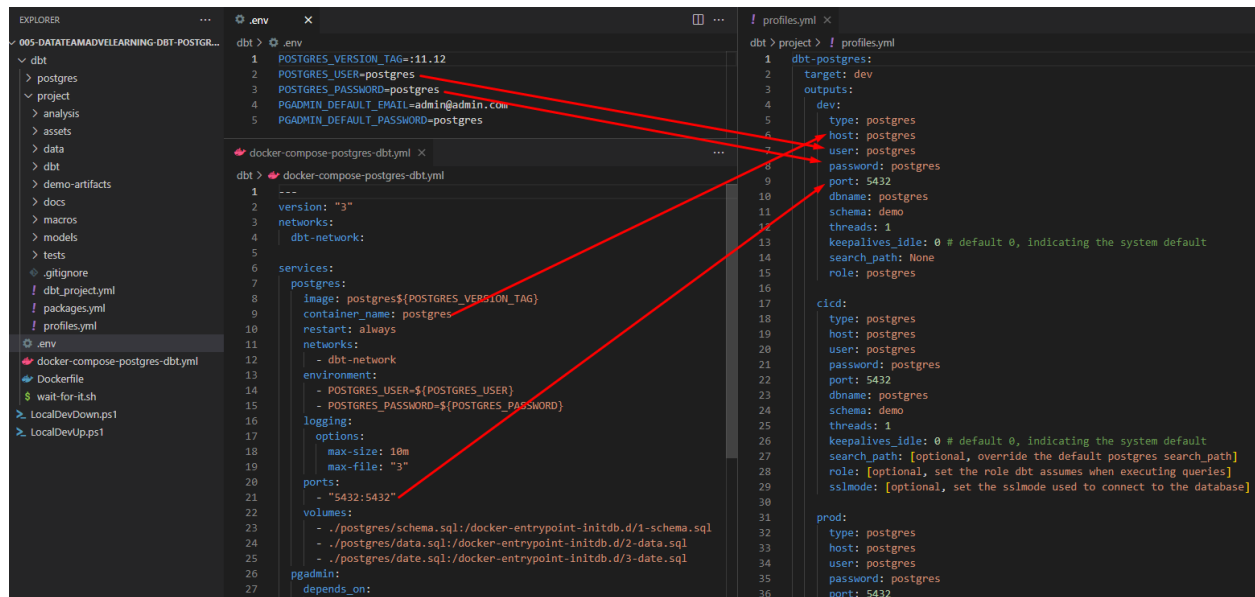


Changing configuration

If you want to change the User or Password of the PostgreSQL, you can do it freely by changing the values in the **dbt/.env** file:

- **POSTGRES_VERSION_TAG=:11.12** -> This one is the docker image version of the database
- **POSTGRES_USER=postgres** -> You can change this with any desired value
- **POSTGRES_PASSWORD=postgres** -> You can change this with any desired value

Take note that if you change the User and Password of the PostgreSQL image, you will have to do the same in the DBT **profile.yml**



Change DBT project files

- The Dockerfile to build the DBT image: **dbt/Dockerfile**
- The docker-compose YML file where the first DBT command runs: **dbt/ docker-compose-postgres-dbt.yml**

Here is the screenshot to visualize how to change the contents of the folder **dbt/project** files:

The screenshot shows a VS Code editor with two files open. The **Dockerfile** file has the following content:

```
1 FROM ghcr.io/dbt-labs/dbt-postgres:1.3.0
2
3 # This is for testing the connections, command: ping
4 RUN apt-get update -y
5 RUN apt-get install -y iputils-ping
6
7 COPY ./project /usr/app
8 COPY ./project/profiles.yml /root/.dbt/
9 COPY ./wait-for-it.sh wait-for-it.sh
10
11 RUN chmod +x wait-for-it.sh
12
13 ENTRYPOINT ["/bin/bash"]
```

Annotations for the Dockerfile:

- A red box highlights the `FROM ghcr.io/dbt-labs/dbt-postgres:1.3.0` line, with a red arrow pointing to it from the text "DBT image version used".
- A red box highlights the `COPY` lines (7-9), with a red arrow pointing to them from the text "COPYING ALL FILES".
- A red box highlights the `COPY ./project/profiles.yml /root/.dbt/` line, with a red arrow pointing to it from the text "COPYING JUST THE PROFILE.YML TO: /root/.dbt".

The **docker-compose-postgres-dbt.yml** file has the following content:

```
23 - ./postgres/schema.sql:/docker-entrypoint-initdb.d/1-schema.sql
24 - ./postgres/data.sql:/docker-entrypoint-initdb.d/2-data.sql
25 - ./postgres/date.sql:/docker-entrypoint-initdb.d/3-date.sql
26 pgadmin:
27   depends_on:
28     - postgres
29   container_name: pgadmin
30   image: dpage/pgadmin4
31   restart: always
32   networks:
33     - dbt-network
34   environment:
35     PGADMIN_DEFAULT_EMAIL: ${PGADMIN_DEFAULT_EMAIL}
36     PGADMIN_DEFAULT_PASSWORD: ${PGADMIN_DEFAULT_PASSWORD}
37   ports:
38     - "5050:80"
39 dbt-postgres:
40   depends_on:
41     - postgres
42   build:
43     dockerfile: ./Dockerfile
44     context: .
45   container_name: dbt-postgres
46   networks:
47     - dbt-network
48   ports:
49     - "8085:8085"
50   command: [". /wait-for-it.sh", "postgres:5432", "--", "dbt", "debug"]
```

Annotations for the docker-compose file:

- A red box highlights the `command` line (50), with a red arrow pointing to it from the text "FIRST DBT COMMAND TO RUN".

In the **dbt/project** you must replace the contents with your files, the red box with the arrows shows how the **Dockerfile** copy those files to the image.

In the file **docker-compose-postgres-dbt.yml** in the bottom red box you see what the default DBT command runs when the project is started.

If you have any further question you can email to the developer: cristian.flores@encora.com