```
dima@dima-TUF-GAMING-FX504GD-FX80GD:~/PycharmProjects/pythonProject2/lab_30/my_project$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

dima@dima-TUF-GAMING-FX504GD-FX80GD:~/PycharmProjects/pythonProject2/lab_30/my_project$ docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

dima@dima-TUF-GAMING-FX504GD-FX80GD:~/PycharmProjects/pythonProject2/lab_30/my_project$
```

```
💰 settings.py × 🏮 Dockerfile × 📠 docker-compose.yml × 🔼 docker-entrypoint.sh
     eservices:
         command: python3 manage.py runserver 0.0.0.0:8000
         - 8000:8000
         - ./.env.django
         - ./.env.postgres
          - db
         image: postgres:15.1
         - postgres_data:/var/lib/postgresql/data/
         - POSTGRES_USER=postgres
         - POSTGRES_PASSWORD=lab_30
         - POSTGRES_DB=lab_30
```

```
## .env.postgres * ## .env.django * ## settings.py *

## ENGINE=django.db.backends.postgresql

## DATABASE=lab_30

## USER=postgres

## PASSWORD=lab_30

## HOST=db

## OPRT=5432

## BASE=postgres
```

```
env.postgres ×  env.django × requirements.txt ×

Django==3.2
django_filter==22.1
djangorestframework==3.14.0
djangorestframework_simplejwt==5.2.2
psycopg2-binary==2.9.1
```

```
dima@dima-TUF-GAMING-FX504GD-FX80GD:~/PycharmProjects/pythonProject2/lab_30/my_project$ docker-compose build
db uses an image, skipping
Building web
Step 1/13 : FROM python:3.9.6
4c25b3090c26: Pull complete
942374d5c114: Pull complete
64c0f10e4cfa: Pull complete
76571888410b: Pull complete
5e88ca15437b: Pull complete
Oab5ec771994: Pull complete
Digest: sha256:2bd64896cf4ff75bf91a513358457ed09d890715d9aa6bb602323aedbee84d14
Removing intermediate container f668078ad692
 ---> cd2f5ecc2651
Step 3/13 : ENV PYTHONDONTWRITEBYTECODE 1
   --> Running in 4fa3cb597985
Removing intermediate container 4fa3cb597985
  --> 10d84d49349e
 ---> Running in 8280de2ffd66
```

```
Step 5/13 : RUN pip install --upgrade pip
---> Running in 7814414a5ace
Requirement already satisfied: pip in /usr/local/lib/python3.9/site-packages (21.2.4)
Collecting pip
 Downloading pip-22.3.1-py3-none-any.whl (2.1 MB)
Installing collected packages: pip
  Attempting uninstall: pip
   Found existing installation: pip 21.2.4
   Uninstalling pip-21.2.4:
      Successfully uninstalled pip-21.2.4
Successfully installed pip-22.3.1
Removing intermediate container 7814414a5ace
---> 738e04930398
Step 6/13 : RUN apt-get update && apt-get install -y netcat
---> Running in a6b000f4d6a1
Get:1 http://deb.debian.org/debian bullseye InRelease [116 kB]
Get:2 http://security.debian.org/debian-security bullseye-security InRelease [48.4 kB]
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [44.1 kB]
Get:4 http://security.debian.org/debian-security bullseye-security/main amd64 Packages [216 kB]
Get:6 http://deb.debian.org/debian bullseye-updates/main amd64 Packages [14.6 kB]
Fetched 8622 kB in 3s (3177 kB/s)
Reading package lists...
Reading package lists...
Building dependency tree...
The following additional packages will be installed:
 netcat-openbsd
The following NEW packages will be installed:
```

```
O upgraded, 2 newly installed, O to remove and 118 not upgraded.
Need to get 50.8 kB of archives.
After this operation, 130 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bullseye/main amd64 netcat-openbsd amd64 1.217-3 [41.1 kB]
Get:2 http://deb.debian.org/debian bullseye/main amd64 netcat all 1.10-46 [9728 B]
Fetched 50.8 kB in 0s (277 kB/s)
Selecting previously unselected package netcat-openbsd.
(Reading database ... 23378 files and directories currently installed.)
Preparing to unpack .../netcat-openbsd_1.217-3_amd64.deb ...
Unpacking netcat-openbsd (1.217-3) ...
Selecting previously unselected package netcat.
Preparing to unpack .../netcat_1.10-46_all.deb ...
Unpacking netcat (1.10-46) ...
Setting up netcat-openbsd (1.217-3) ...
update-alternatives: using /bin/nc.openbsd to provide /bin/nc (nc) in auto mode
Setting up netcat (1.10-46) ...
Removing intermediate container a6b000f4d6a1
---> ee61b69f510b
Step 7/13 : COPY ./requirements.txt .
---> 57ac818dbe23
Step 8/13 : RUN pip install -r requirements.txt
Collecting Django==3.2
 Downloading Django-3.2-py3-none-any.whl (7.9 MB)
                                            - 7.9/7.9 MB 5.6 MB/s eta 0:00:00
Collecting django_filter==22.1
  Downloading django_filter-22.1-py3-none-any.whl (80 kB)
                                         ---- 80.9/80.9 kB 2.3 MB/s eta 0:00:00
Collecting djangorestframework==3.14.0
 Downloading djangorestframework-3.14.0-py3-none-any.whl (1.1 MB)
                                      ----- 1.1/1.1 MB 2.2 MB/s eta 0:00:00
```

```
Step 13/13 : ENTRYPOINT ["/lab_30/my_project/docker-entrypoint.sh"]
---> Running in 9e27602884f8
Removing intermediate container 9e27602884f8
---> c9ab1c5a5c6d

Successfully built c9ab1c5a5c6d
Successfully tagged my_project_web:latest
dima@dima-TUF-GAMING-FX504GD-FX80GD:~/PycharmProjects/pythonProject2/lab_30/my_project$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
my_project_web latest c9ab1c5a5c6d 30 seconds ago 998MB
python 3.9.6 le76b28bfd4e 17 months ago 911MB
```

```
dima@dima-TUF-GAMING-FX504GD-FX80GD:~/PycharmProjects/pythonProject2/lab_30/my_project$ docker-compose up
Pulling db (postgres:15.1)...
15.1: Pulling from library/postgres
8740c948ffd4: Pull complete
c8dbd2beab50: Pull complete
05d9dc9d0fbd: Pull complete
ddd89d5ec714: Pull complete
f98bb9f03867: Pull complete
0554611e703f: Pull complete
64e0a8694477: Pull complete
8b868a753f47: Pull complete
12ed9aefbab3: Pull complete
825b08d51ffd: Pull complete
8f272b487267: Pull complete
ba2eed7bd2cc: Pull complete
ff59f63f47d6: Pull complete
Digest: sha256:6b07fc4fbcf551ea4546093e90cecefc9dc60d7ea8c56a4ace704940b6d6b7a3
Status: Downloaded newer image for postgres:15.1
```

```
web_1 | Waiting for postgres...
web_1 | Connection to db (172.20.0.2) 5432 port [tcp/postgresql] succeeded!
web_1 | PostgreSQL started
```





