Section 2. „Running Multiple Containers”

Links:

https://github/pythonincontainers/sqlalchemy-psql

Commands:

```
$ docker run -d -p 5000:5000 --name simple-flask
pythonincontainers/simple-flask

$ docker run -it --name centos centos

# curl 127.0.0.1:5000

$ docker inspect --format "{{.NetworkSettings.IPAddress}}"
simple-flask

$ docker inspect --format "{{.NetworkSettings.IPAddress}}"
centos

# curl 172.17.0.2:5000

# exit

$ docker run --rm -it --name centos --add-host simple-
flask:172.17.0.2 centos

# curl simple-flask:5000

# exit

$ docker run --rm -it --name centos --add-host simple-
flask:$(docker inspect --format "{{.NetworkSettings.IPAddress}}"
simple-flask) centos

$ docker rm -f simple-flask

$ docker network create my-net

$ docker run -d --name simple-flask --network my-net
pythonincontainers/simple-flask

$ docker run --rm -it --name centos –network my-net centos

# curl simple-flask:5000
```

```
$ docker run -d --name proxy-server –network my-net nginx

# curl proxy-server:80

# exit

$ docker run -d --name simple-flask pythonincontainers/simple-
flask

$ docker run --rm -it --link webserver:simple-flask centos

# curl webserver:5000

# curl simple-flask:5000

# more /etc/hosts

# env

# exit

$ docker run -d --name postgres --network my-net –env
"POSTGRES_PASSWORD=mysecret" postgres

$ docker logs postgres

$ docker run -d --name pgadmin --network my-net -e
"PGADMIN_DEFAULT_EMAIL=user@example.com" -e
"PGADMIN_DEFAULT_PASSWORD=supersecret" -p 8088:80 dpage/pgadmin4

$ git clone https://github/pythonincontainers/sqlalchemy-psql

$ cd sqlalchemy-psql

$ atom .

$ docker run --rm -it -v ${PWD}:/app --network my-net python
bash

# cd /app

# pip install -r requirements.txt

# pip alchemy-psql.py

# grep create_engine alchemy-psql.py

# exit
```