

Section 3. „Implementing Proxy Server”

Links:

<https://github.com/pythonincontainers/django-polls>

<https://nginx.org/en/docs/>

<https://www.openssl.org/docs/>

Commands:

```
$ docker kill -s SIGTERM db
```

```
$ docker rm db
```

```
$ docker run -d --network polls_net -e  
"POSTGRES_PASSWORD=myprecious" --name db -v  
polls_vol:/var/lib/postgresql/data postgres
```

```
$ docker logs db
```

```
$ docker build -t django-polls:uwsgi4nginx -f  
Dockerfile.uwsgi4nginx --build-arg BaseImage=uwsgi .
```

```
$ docker run -it --rm --network polls_net -e  
"DATABASE_URL=postgres://pollsuser:pollspass@db/pollsdb" django-  
polls:uwsgi4nginx python manage.py migrate
```

```
$ docker run -it --rm --network polls_net -e  
"DATABASE_URL=postgres://pollsuser:pollspass@db/pollsdb" django-  
polls:uwsgi4nginx python manage.py loaddata initial_data.json
```

```
$ docker run -it --rm --network polls_net -e  
"DATABASE_URL=postgres://pollsuser:pollspass@db/pollsdb" django-  
polls:uwsgi4nginx python manage.py createsuperuser
```

```
$ docker run -d -e  
"DATABASE_URL=postgres://pollsuser:pollspass@db/pollsdb" --  
network polls_net --name app1 django-polls:uwsgi4nginx
```

```
$ docker logs app1
```

```
$ docker build -t mynginx -f Dockerfile.nginx .
```

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```
$ docker run -it --rm --network polls_net -p 8000:8000 mynginx
$ docker run -d --network polls_net -p 8000:8000 mynginx
$ docker build -t mynginx:ssl -f Dockerfile.nginx-ssl .
$ docker run -it --rm --network polls_net -p 443:443 mynginx:ssl
$ docker run -d -e
"DATABASE_URL=postgres://pollsuser:pollspass@db/pollsdb" --
network polls_net --name app2 django-polls:uwsgi4nginx
```

mysite_nginx_ssl.conf:

```
upstream django {
    server app1:8000;
    server app2:8000;
}
```

```
$ docker build -t mynginx:lb -f Dockerfile.nginx-ssl .
$ docker run -d --name proxy --network polls_net -p 443:443
mynginx:lb
$ docker logs app1
$ docker logs app2
$ docker system prune
```