# KIII homework 3

#### Listing 7.3: Testing Docker Compose is working

```
root@JONY-PC:/home/jony102# docker compose version
Docker Compose version v2.16.0
root@JONY-PC:/home/jony102#
```

#### Listing 7.4: Creating the composeapp directory

```
root@JONY-PC:/home/jony102# mkdir kiii-homework_3
root@JONY-PC:/home/jony102# cd kiii-homework_3
root@JONY-PC:/home/jony102/kiii-homework_3# mkdir composeapp
root@JONY-PC:/home/jony102/kiii-homework_3# cd composeapp/
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp#
```

# Listing 7.5: The app.py file

### Listing 7.6: The requirements.txt file

```
GNU nano 6.2 requirements.txt *
flask
redis
```

#### Listing 7.7: The composeapp Dockerfile

```
# Compose Sample application image
FROM python:2.7
LABEL maintainer="andrej.bardakoski@students.finki.ukim.mk"
ADD . /composeapp
WORKDIR /composeapp
RUN pip install -r requirements.txt
```

# Listing 7.8: Building the composeapp application

# Listing 7.9: Creating the docker-compose.yml file

## Listing 7.10: The docker-compose.yml file

```
GNU nano 6.2
version: "3"
services:
  webapp_container:
    image: andre102/composeapp
    command: python app.py
    ports:
        - "5000:5000"
    volumes:
        - .:/composeapp
  redis_db_container:
    image: redis
```

#### Listing 7.13: Running docker-compose up with our sample application

### Listing 7.15: Running Compose daemonized

```
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp# docker compose up -d

[*] Running 2/0

" Container composeapp-webapp_container-1 Running 0.0s

" Container composeapp-redis_db_container-1 Running 0.0s

root@JONY-PC:/home/jony102/kiii-homework_3/composeapp#
```

#### Listing 7.17: Running the docker-compose ps command

```
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp# docker compose ps
NAME IMAGE COMMAND SERVICE CREATED
STATUS PORTS
composeapp-redis_db_container-1 redis "docker-entrypoint.s..." redis_db_container 5 seconds ago
Up 3 seconds 6379/tcp
composeapp-webapp_container-1 andre102/composeapp "python app.py" webapp_container 5 seconds ago
Up 3 seconds 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp#
```

#### Listing 7.18: Showing a Compose services logs

## Listing 7.19: Stopping running services

```
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp# docker compose stop
[+] Running 2/2

# Container composeapp-redis_db_container-1 Stopped

# Container composeapp-webapp_container-1 Stopped
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp#
```

#### Listing 7.20: Verifying our Compose services have been stopped

| root@JONY-PC:/home/jony102/kiii-homework_3/composeapp# docker compose ps -a |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| NAME  |  |  |  |  |  |  |
| composeapp-redis_db_container-1   |  |  |  |  |  |  |
| composeapp-webapp_container-1   |  |  |  |  |  |  |
| root@JONY-PC:/home/jony102/kiii-  |  |  |  |  |  |  |

## Listing 7.21: Removing Compose services

```
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp# docker compose rm
? Going to remove composeapp_webapp_container-1, composeapp-redis_db_container-1 Yes
[+] Running 2/0
# Container composeapp-redis_db_container-1 Removed
# Container composeapp-webapp_container-1 Removed
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp# |
```

#### Listing 7.22: Showing no Compose services

```
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp# docker compose ps -a
NAME IMAGE COMMAND SERVICE CREATED
root@JONY-PC:/home/jony102/kiii-homework_3/composeapp#
```