

Docker compose

Abstract ▾

For this homework, we supposed a simple project that needs the installation of NodeJS and Mongo containers to work

⚠ docker-compose.yml ▾

```
version: "3"

services:
  node:
    container_name: nodeapp
    image: node:14
    restart: always
    ports:
      - "5000:3000"
    links:
      - mongo
    volumes:
      - ./usr/src/app
  mongo:
    container_name: mongodatabase
    image: mongo
    ports:
      - "27018:27017"
```

- **Services:** We specified the services to be used
- **node:** Name that we assign to the service. It can be anyone
- **container_name: nodeapp:** Name of the container. It can be anyone
- **image: node:14:** Image on which it will be based. Here we specify that we would use Node 14
- **restart: always:** Make it restart automatically in case of an error
- **ports: - "5000:3000":** We define the ports. The app that we supposed uses port 3000, but we specify that it must run on port 5000
- **links: - mongo:** We specify that the container is linked to the mongo service, which we specify below.
- **volumes: - ./usr/src/app:** Copies the files created at the specified address. Everything created in the system is copied to the container, everything created in the container is copied to the system at the specified path
- **mongo:** Name that we assign to the service. This is the name that is written in the links section.
- **container_name: mongodatabase:** Name of the container
- **image: mongo:** Image on which it will be based
- **ports: - "27018:27017":** Define ports. Mongo typically works with port 27017, but here I am binding it to 27018

≡ Screenshot de docker-compose.yml ▾

```

1  version: "3"
2
3  services:
4    node:
5      container_name: nodeapp
6      image: node:14
7      restart: always
8      ports:
9        - "5000:3000"
10     links:
11       - mongo
12     volumes:
13       - ../usr/src/app
14   mongo:
15     container_name: mongodatabase
16     image: mongo
17     ports:
18       - "27018:27017"
19

```

Running docker-compose ▾

In order to run the docker-compose file, write the command

```
docker-compose up -d
```

We can verify the containers where create running the line

```
docker-compose ps
```

Screenshots ▾

docker-compose up -d

```

erick Docker compose → (main) ♥ 07:58 docker-compose up -d
[+] Running 3/3
- Network dockercompose_default Created                                0.9s
- Container mongodatabase Started                                    1.8s
- Container nodeapp Started                                          3.1s

```

docker-compose ps

```

erick Docker compose → (main) ♥ 07:58 docker-compose ps
NAME                COMMAND                SERVICE    STATUS    PORTS
mongodatabase       "docker-entrypoint.s..." mongo       running   0.0.0.0:27018->27017/tcp
nodeapp             "docker-entrypoint.s..." node       restarting

```