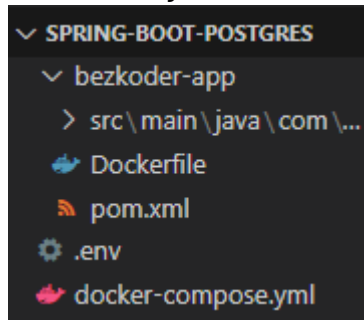


Spring Boot with Docker Compose

I. Directory Overview



II. Dockerfile

FROM maven:3.8.5-openjdk-17

WORKDIR /bezkoder-app

COPY . .

RUN mvn clean install

CMD mvn spring-boot:run

III. Docker Compose

version: "3.8"

services:

postgresdb:

image: postgres

restart: unless-stopped

env_file: ./env

environment:

- POSTGRES_USER=\${POSTGRESDB_USER}

- POSTGRES_PASSWORD=\${POSTGRESDB_ROOT_PASSWORD}

- POSTGRES_DB=\${POSTGRESDB_DATABASE}

ports:

- \${POSTGRESDB_LOCAL_PORT}:\${POSTGRESDB_DOCKER_PORT}

volumes:

- db:/var/lib/postgresql/data # Fixed volume path

app:

depends_on:

- postgresdb

build: ./bezkoder-app

```

restart: on-failure
env_file: ./env
ports:
  - ${SPRING_LOCAL_PORT}:${SPRING_DOCKER_PORT}
environment:
  SPRING_APPLICATION_JSON: '{
    "spring.datasource.url" :
"jdbc:postgresql://postgresdb:${POSTGRESDB_DOCKER_PORT}/${POSTGRESDB_DATABASE}",
    "spring.datasource.username" : "${POSTGRESDB_USER}",
    "spring.datasource.password" : "${POSTGRESDB_ROOT_PASSWORD}",
    "spring.jpa.properties.hibernate.dialect" :
"org.hibernate.dialect.PostgreSQLDialect",
    "spring.jpa.hibernate.ddl-auto" : "update"
  }'
volumes:
  - .m2:/root/.m2
stdin_open: true
tty: true

```

```

volumes:
  db:

```

IV. .env File

```

POSTGRESDB_USER=postgres
POSTGRESDB_ROOT_PASSWORD=123456
POSTGRESDB_DATABASE=bezkoder_db
POSTGRESDB_LOCAL_PORT=5433
POSTGRESDB_DOCKER_PORT=5432

```

```

SPRING_LOCAL_PORT=6868
SPRING_DOCKER_PORT=8080

```

V. Verify Build

```

$docker compose up -d
$docker ps
$docker images
$docker exec -ti spring-boot-postgres-postgresdb-1 /bin/bash
$docker compose down --rmi all

```