Docker-Compose Tutorial

- Create a Node.js express application.
- Create a Dockerfile to run the container with the configurations of your project.

```
FROM node:12

WORKDIR /app

COPY ./package.json .

RUN npm cache clean --force
RUN npm install

COPY . .

EXPOSE 3000

CMD [ "node", "server.js" ]
```

 Create .dockerignore to prevent your local modules and debug logs from being copied on the docker image.

```
node_modules
npm-debug.log
```

 Create docker-compose.yml file to define the services to make up the app.

```
version: "3.8"
services:
  app:
    restart: on-failure
    build: .
    depends_on:
      - postgres
    environment:
      DATABASE_URL: postgres://user:pass@postgres:5432/db
      NODE_ENV: development
      PORT: 3000
    ports:
      - "3000:3000"
    command: npm run start
    volumes:
      - .:/app/
      - /app/node_modules
```

```
postgres:
  image: postgres:11
  ports:
    - "5432:5432"
  environment:
    POSTGRES_USER: user
    POSTGRES_PASSWORD: pass
    POSTGRES_DB: db
```

Deploy the application docker-compose up -d

```
Location | 1.45 (1/11) FINISHED

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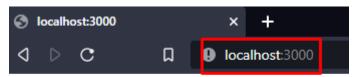
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```

• Show running containers.

```
iox00ESKTOP-SGIFBTB:-/jalasoft/jalasoft-bootcamp/devOps_1/JalaUniversity_DevOps/docker-compose docker-compose ps
vAME COMMAND SERVICE STATUS PORTS
iocker-compose-app-1 "docker-entrypoint.s." app running 0.0.0.0:3000->3000/tcp
locker-compose-postgres-1 "docker-entrypoint.s." postgres running 0.0.0.0:5432->5432/tcp
```

Access the application at http://localhost:3000



Docker Node JS Express app connected to postgres