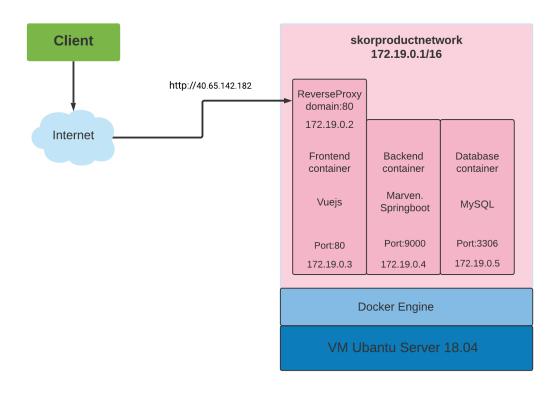
# **Devops**

# 1. Architecture Diagram



### 2. Screenshorts of docker container lists

ONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
200caf5120f	nginx	"/docker-entrypoint"	16 minutes ago	Up 15 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	reverseproxy
a14fad5caac	demo_frontend	"nginx -g 'daemon of"	16 minutes ago	Up 15 minutes	80/tcp	frontend
e7f69e1fc58	demo_backend	"java -jar skor-back"	16 minutes ago	Up 15 minutes	9000/tcp	backend
5c0e9848fbd	demo_database	"docker-entrypoint.s"	16 minutes ago	Up 15 minutes	3306/tcp, 33060/tcp	database

3. Screenshorts of docker network inspect

```
IntegratedProject1:~/Devops/Demo$ docker network inspect network skorproductnetwork
 "Name": "skorproductnetwork",
"Id": "445f684e2007564a6960974404318f5bb67e1b3a5446385214224d3b8ad09b67",
 "Created": "2021-0
"Scope": "local",
"Driver": "bridge"
                    "2021-05-10T16:46:13.739542481Z",
  "EnableIPv6": false,
 "Enabler",
"IPAM": {
    "Driver": "default",
    "Options": {},
    "Config": [
            {

"Subnet": "172.19.0.0/16",

"Gateway": "172.19.0.1"
 },
"Internal": false,
 "Attachable": false,
"Ingress": false,
"ConfigFrom": {
    "Network": ""
 },
"ConfigOnly": false,
         "5a14fad5caac8c4ad570eee7cf27752c49b3188d90a62519b24dc8fe0f8b8054": {
                "Name": "frontend"
              "EndpointID": "61b05ef3ec6b08ce9ee970acc9cf75976205160528642c4039126ea9d60e368c",
"MacAddress": "02:42:ac:13:00:03",
"IPv4Address": "172.19.0.3/16",
"IPv6Address": ""
        },
"5e7f69e1fc5833f6bae2483d53665465b78e388559c56889d6b0380ae84e9f41": {
              "Name": "backend",
"Name": "backend",
"EndpointID": "d26fb6043a780bdcbda024655c915303c6948a69a686cfb500d947096dd035b8",
"MacAddress": "02:42:ac:13:00:04",
"IPv4Address": "172.19.0.4/16",
"IPv6Address": ""
        },
"c5c0e9848fbdc061198787d56df609c8233eb0128679a17ca29048d6236c48b0": {
    "Name": "database",
    "EndpointID": "72767be9f5e582a477b414b9996e68d1776bd0d7fcd13f9d5bc34285dce6c32f",
```

#### 4. Dockerfile

Frontend

```
FROM <a href="mode">node</a>:12.2.0-alpine as build WORKDIR /app
ENV PATH /app/node_modules/.bin:$PATH
COPY package.json /app/package.json
RUN npm install --silent
RUN npm install @vue/cli@3.7.0 -g
COPY . /app
RUN npm run build

# production environment
FROM <a href="mailto:nginx">nginx</a>:1.16.0-alpine
COPY --from=build /app/dist /usr/share/nginx/html
RUN rm /etc/nginx/conf.d/default.conf
COPY nginx/nginx.conf /etc/nginx/conf.d
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```

#### Backend

```
FROM maven:3.8.1-jdk-11 AS BUILD

WORKDIR /build/
COPY pom.xml /build/
COPY src /build/src/
RUN mvn clean package

FROM openjdk:11
WORKDIR /app
COPY public/images public/images
COPY --from=BUILD /build/target/skor-backend.jar /app
EXPOSE 9000

ENTRYPOINT ["java", "-jar", "skor-backend.jar"]
```

#### - Database

```
FROM mysql
COPY ./scrip ./scrip
ENV MYSQL_ROOT_PASSWORD=database221mysql
EXPOSE 3306:3306
```

### 5. Docker-compose

```
version: '3
services:
    database:
        build: ./database
        restart: always
        container_name: database
        volumes:
            - ./database/scrip/:/docker-entrypoint-initdb.d
            - ./database/scrip/mysql-data:/var/lib/mysql
    backend:
        build: ./backend
        restart: always
        container_name: backend
        volumes:
            - ./backend/public/images:/public/images
        depends_on:
           - database
    frontend:
        build: ./frontend
        restart: always
        container_name: frontend
        depends_on:
            - database
```