

55.15Jun. Containers(Python Flask, Java Spring)

Thursday, June 15, 2023 7:09 PM

```
# syntax=docker/dockerfile:1.4
FROM --platform=$BUILDPLATFORM python:3.10-alpine AS builder

WORKDIR /app

COPY requirements.txt /app
RUN --mount=type=cache,target=/root/.cache/pip \
    pip3 install -r requirements.txt

COPY . /app

ENTRYPOINT ["python3"]
CMD ["app.py"]

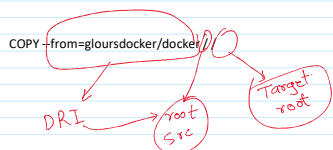
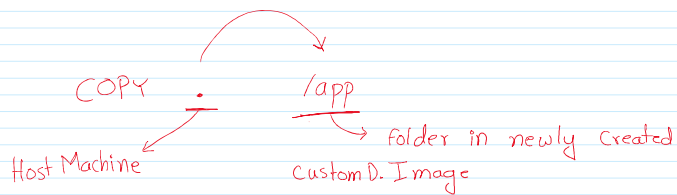
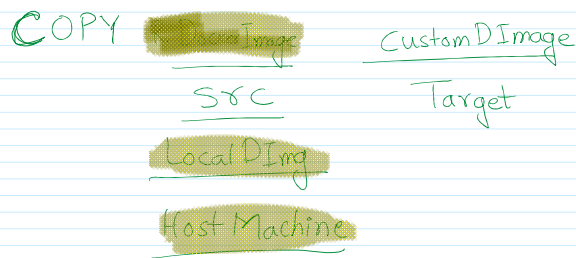
FROM builder as dev-envs

RUN <<EOF
apk update
apk add git
EOF

RUN <<EOF
addgroup -S docker
adduser -S --shell /bin/bash --ingroup docker vscode
EOF
# install Docker tools (cli, buildx, compose)
COPY --from=gloursdocker/docker /
```

```
RUN --mount=type=cache,target=/root/.cache/pip \
    pip3 install -r requirements.txt
```

```
RUN mkdir abc
```



COPY --from = Username/CRI src target

Programming: Java (Javac & Java) + JDBC

Database Server: PostgreSQL Server.

Build Tool: Apache Maven

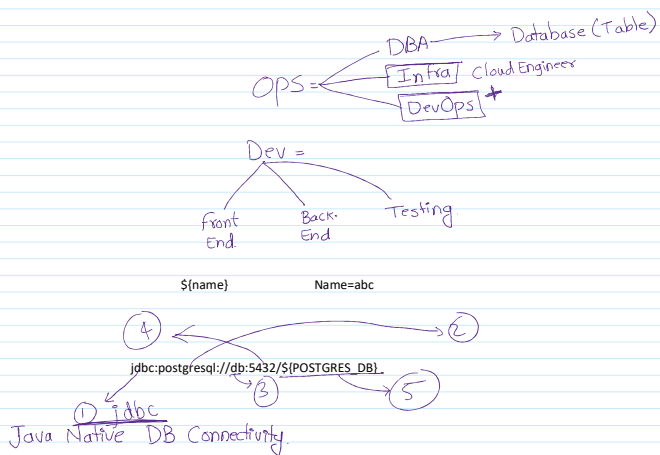
Web Framework: Spring Boot

- JPA
- Spring Boot Test
- Web

Containers: - Docker

- Dockerfile
- DockerCompose
- Docker Volume.

DB Framework: ◦ Hibernate
- SQLDialect



② postgresql = Database Server.

③ db = Database Server Name

- localhost
- public IP
- private IP
- Domain/sub domain

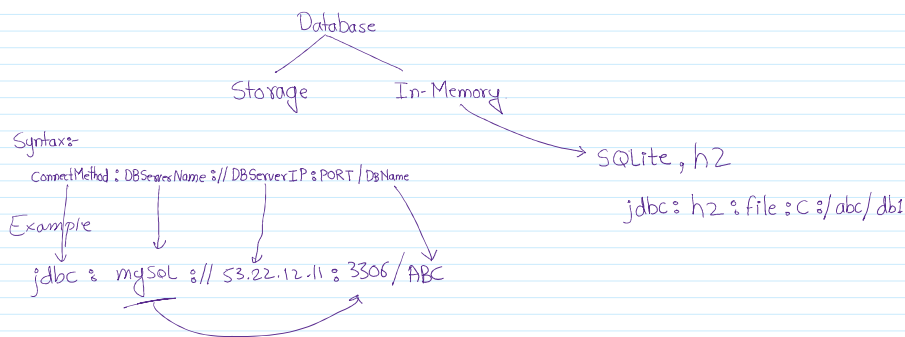
④ 5432 → pgSQL port
3306 → MySQL port

MS SQL Server ports

- TCP = 1433 → *
- TCP = 1434
- TCP = 4022
- TCP = 135
- 1100
- 1424

Server ports } TCP = 135
UDP = 1434

⑤ DB Name



Vendors

OS

- MySQL
- postgresql

MS

- Azure SQL
- MS SQL Server

spring.jpa.hibernate.ddl-auto=none

- 1] none - No change
- 2] update - Change structure of Tables in database
- 3] Create - Create everytime, not drop on close → Garbage Collector.
- 4] create-drop ————— drop on close X

