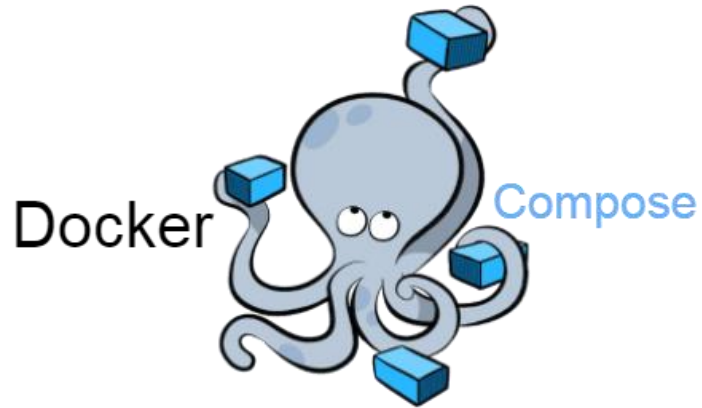


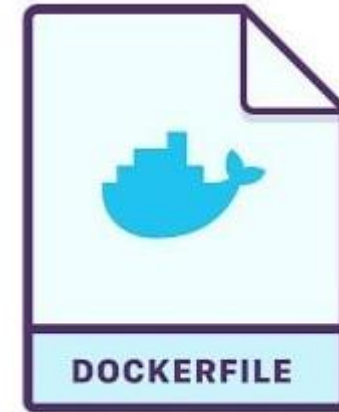
POPEYE

DIFFERENCE BETWEEN DOCKER COMPOSE AND DOCKER FILE



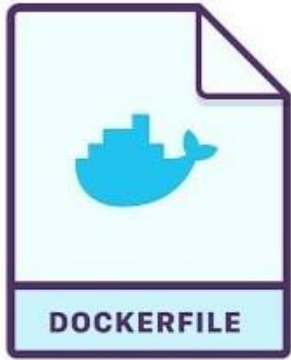
Docker-compose, a tool to deploy **multiple containers** at the same time

Basically, it should be remembered that Docker-compose allows to **manage a set of Docker containers** (services) within the **same configuration file** (YAML file)

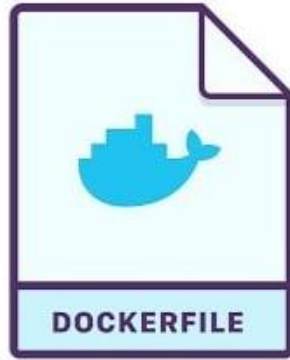


Dockerfiles are files that make it possible to build a **Docker image** adapted to **our needs**

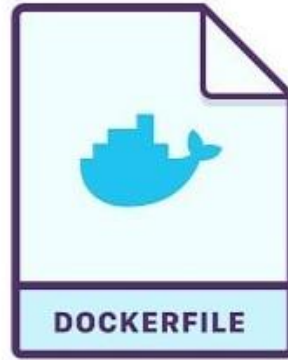
HOW TO ACHIEVE THE SUBJECT POPEYE?



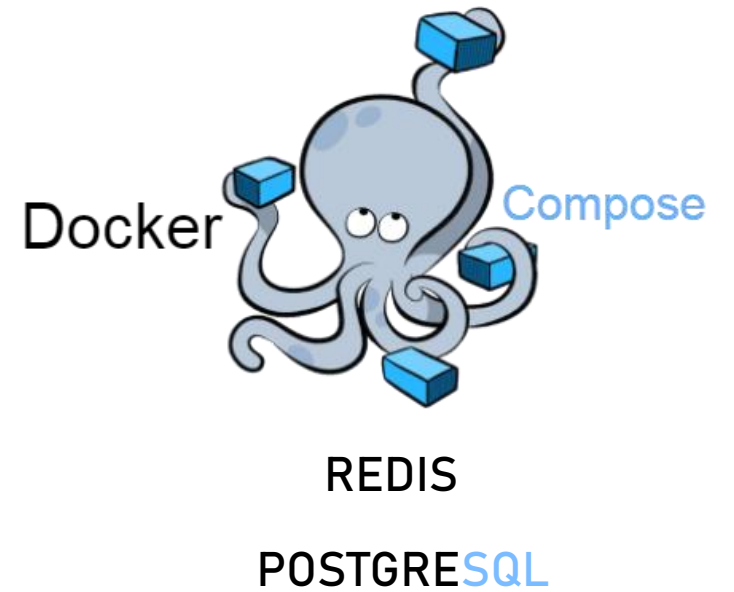
POLL



RESULT



WORKER



DOCKER-COMPOSE UP --BUILD

POLL | DOCKERFILE



APP.PY

```
def get_redis():  
    if not hasattr(g, 'redis'):  
        g.redis = Redis(host = "127.0.0.1", db = 0, socket_timeout = 5)  
    return g.redis
```

```
def get_redis():  
    if not hasattr(g, 'redis'):  
        g.redis = Redis(host = "redis", db = 0, socket_timeout = 5)  
    return g.redis
```

CHANGE IN APP.PY



POLL

```
FROM python:latest  
WORKDIR /app  
COPY . /app  
RUN pip3 install -r requirements.txt  
EXPOSE 80  
CMD flask run --host=0.0.0.0 --port=80
```

DOCKERFILE COMMANDS

RESULT | DOCKERFILE



SERVER.JS



RESULT

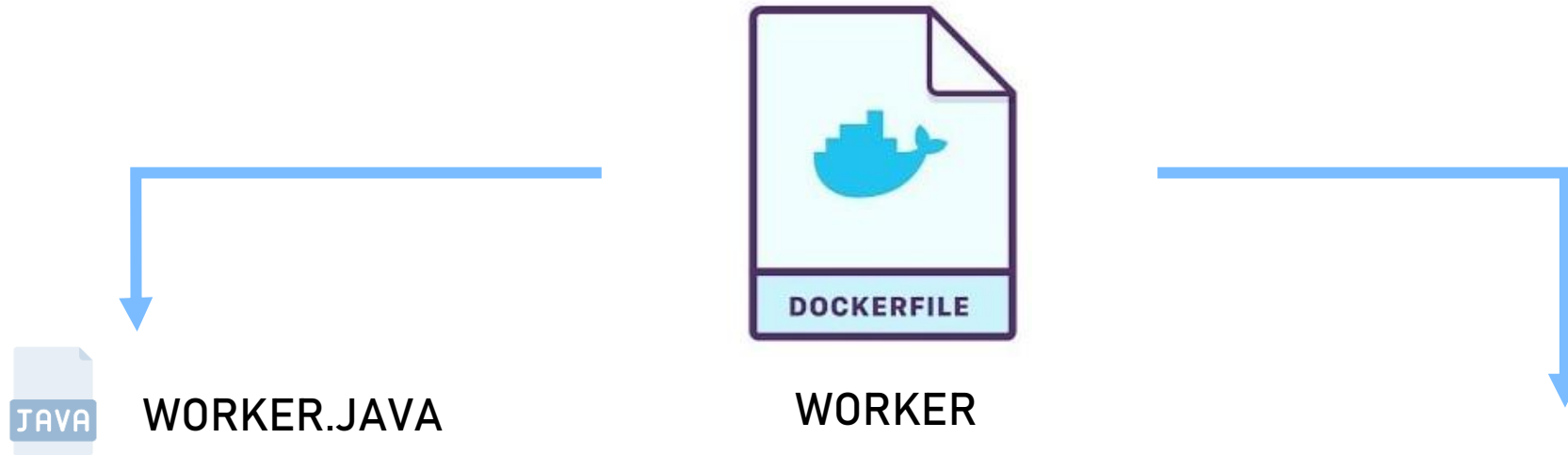
```
async.retry({
  times: 1000,
  interval: 1000
},
function(callback) {
  pg.connect('postgres://postgres:password@127.0.0.1/postgres')
},
function(callback) {
  pg.connect('postgres://postgres:password@' + process.env.DB_HOSTNAME_RESULT + '/postgres')
},
function(callback) {
  var port = 4242;
  var port = process.env.PORT_RESULT;
```

CHANGE IN SERVER.JS

```
FROM node:12-alpine
WORKDIR /app
COPY . /app
RUN npm install
EXPOSE 80
CMD node server.js
```

DOCKERFILE COMMANDS

WORKER | DOCKERFILE



```
class Worker {  
    public static void main(String[] args) {  
        try {  
            Jedis redis = connectToRedis("127.0.0.1");  
            Connection dbConn = connectToDB("127.0.0.1");
```

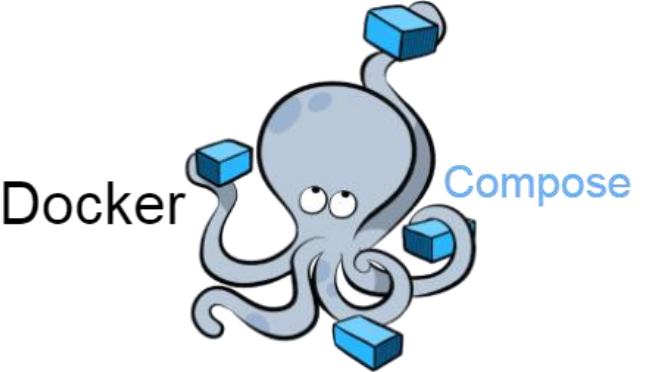
```
class Worker {  
    public static void main(String[] args) {  
        try {  
            Jedis redis = connectToRedis(System.getenv("REDIS_HOSTNAME"));  
            Connection dbConn = connectToDB(System.getenv("DB_HOSTNAME"));
```

CHANGE IN WORKER.JAVA

```
FROM maven:3.5-jdk-8-alpine as builder  
WORKDIR /app  
COPY . /app  
RUN mvn dependency:resolve && mvn package  
  
FROM openjdk:8-jre-alpine  
EXPOSE 80  
COPY --from=builder /app/target/worker-jar-with-  
dependencies.jar .  
CMD java -jar worker-jar-with-dependencies.jar
```

DOCKERFILE COMMANDS

AND ? THAT'S IT



DOCKER-COMPOSE UP --BUILD

HTTP://LOCALHOST:5000

What's your favorite DevOps tool?

ANSIBLE

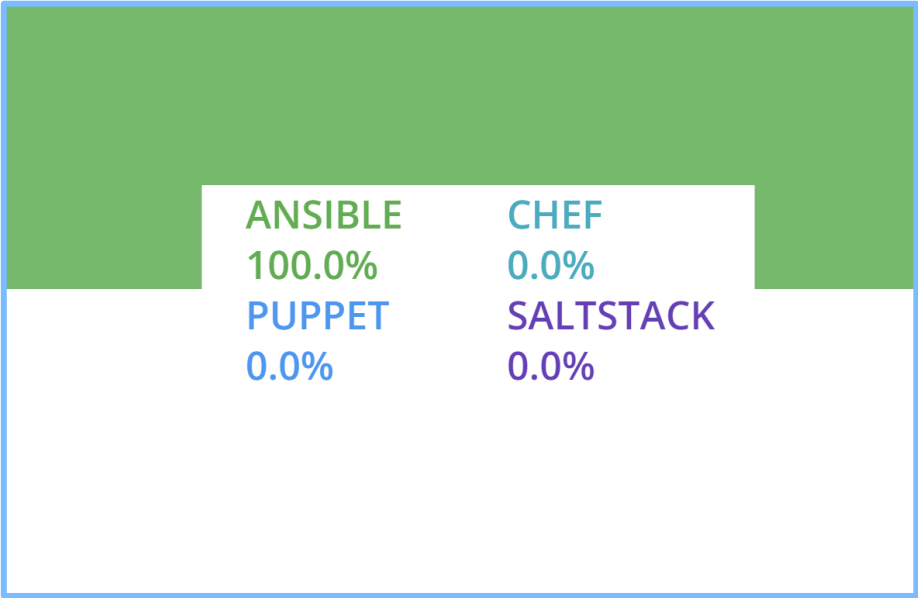
CHEF

PUPPET

SALTSTACK

(Tip: you can change your vote)

HTTP://LOCALHOST:5001



YOU'RE WELCOME

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