# ExercÃcios práticos:

### 1) ContÃainer java:

docker pull hub.estaleiro.serpro/pipeline/openjdk:8-alpine docker images docker ps -a docker run --name teste1 -ti hub.estaleiro.serpro/pipeline/openjdk:8-alpine

## 2) ContÃainer tomcat:

mkdir /tmp/teste2
cd /tmp/teste2
echo "<head></head><body>bla bla</body>" > index.html
docker run -d --name meuapache1 -p 80:80 -v \${PWD}:/usr/local/apache2/htdocs/ httpd:2.4

#### **DEPOIS:**

docker rm -f meuapache1
docker run -d --name meuapache1 -v \${PWD}:/usr/local/apache2/htdocs/ httpd:2.4
docker exec -it meuapache1 apt-get update
docker exec -it meuapache1 apt-get install curl
docker exec -it meuapache1 curl http://localhost

docker commit meuapache1 vamoverissoai docker tag vamoverissoai:latest eduardomacielmaia/vamoverissoai docker login docker push eduardomacielmaia/vamoverissoai

#### 3.1) Dockerfile

# Use an official Python runtime as a parent image FROM python:2.7-slim

# Set the working directory to /app WORKDIR /app

# Copy the current directory contents into the container at /app COPY . /app

# Install any needed packages specified in requirements.txt RUN pip install --trusted-host pypi.python.org -r requirements.txt

# Make port 80 available to the world outside this container EXPOSE 80

```
# Define environment variable
ENV NAME World
# Run app.py when the container launches
CMD ["python", "app.py"]
3.2) requirements.txt
Flask
Redis
3.3) app.py
from flask import Flask
from redis import Redis, RedisError
import os
import socket
# Connect to Redis
redis = Redis(host="redis", db=0, socket_connect_timeout=2, socket_timeout=2)
app = Flask(__name__)
@app.route("/")
def hello():
  try:
    visits = redis.incr("counter")
  except RedisError:
    visits = "<i>cannot connect to Redis, counter disabled</i>"
  html = "<h3>Hello {name}!</h3>" \
      "<b>Hostname:</b> {hostname}<br/>" \
      "<b>Visits:</b> {visits}"
  return html.format(name=os.getenv("NAME", "world"), hostname=socket.gethostname(),
visits=visits)
if __name__ == "__main__":
  app.run(host='0.0.0.0', port=80)
3.4)
docker build --tag=imagempythonhello .
docker run -p 4000:80 imagempythonhello
```

# 4.1) Docker Compose: version: '2' services: wildfly: image: jboss/wildfly:10.1.0.Final container\_name: wildfly ports: - "9000:8080" volumes: - /tmp/teste3/ROOT.war:/opt/jboss/wildfly/standalone/deployments/ROOT.war postgres: image: postgres:9.6-alpine container name: postgres environment: - POSTGRES\_USER=postgres - POSTGRES PASSWORD=postgres - PGDATA=/var/lib/postgresql/data/pgdata ports: - '5432:5432' volumes: - /tmp/teste3/banco:/var/lib/postgresql/data/pgdata 4.2) Comandos: cd /tmp/teste3 curl -kO https://git.serpro/Estaleiro/plataformas/raw/master/wildfly/test/test-app/deployments/ROOT.w ar docker-compose up Numa nova aba: ps aux | grep jboss

## LINKS:

https://dedat.gitpages.serpro/deat5/deat5-gitpages/ambiente-desenvolvimento-com-docker/

https://dedat.gitpages.serpro/deat5/deat5-gitpages/introducao-docker/

https://docs.docker.com/get-started/part2/