

DEVOPS TOOLS E CLOUD COMPUTING

CP 2 Dockerfile

2TDSPV

DEVOPS TOOLS E CLOUD COMPUTING

CP 2

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2TDSPV

Primeiro Desafio – Tecnologia Java

```

C: > Users > diego > Dockerfile > FROM
1 FROM tomcat:10
2
3 WORKDIR /usr/local/tomcat/webapps
4
5 COPY DimMoneyAppRM97798.war /usr/local/tomcat/webapps/DimMoneyAppRM97798.war
6
7 EXPOSE 8080
8
9 VOLUME /usr/local/tomcat/webapps
10
11 CMD ["catalina.sh", "jpda", "start"]

```

```

C:\Windows\system32\cmd.exe
C:\Users\diego>docker volume create deploys-tomcat10
deploys-tomcat10

C:\Users\diego>docker build -t dimmoney-app .
[+] Building 1.5s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 261B
=> [internal] load metadata for docker.io/library/tomcat:10
=> [auth] library/tomcat:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/tomcat:10@sha256:a768924119030b778276c46dc19293cc8e4deae63b6b61dd8c2990df2917d00e
=> [internal] load build context
=> => transferring context: 44B
=> CACHED [2/3] WORKDIR /usr/local/tomcat/webapps
=> CACHED [3/3] COPY DimMoneyAppRM97798.war /usr/local/tomcat/webapps/DimMoneyAppRM97798.war
=> exporting to image
=> => exporting layers
=> => writing image sha256:0c184d3fadc088ee4684079b988ea1473c38718ae92a0f0eca54e7d638af52a0
=> => naming to docker.io/library/dimmoney-app

View build details: docker-desktop://dashboard/build/default/default/3kx91n8wuz8zp99gmex8ws4si

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\diego>docker run -d --name dimmoneyRM97798 -v deploys-tomcat10:/app dimmoney-app
2f35a46380bb3e928960266a043918796f8a6ddb2addcc4a3df324ea2d9f8754

C:\Users\diego>docker rm dimmoneyRM97798
dimmoneyRM97798

C:\Users\diego>docker run -d --name dimmoneyRM97798 -p 8080:8080 -v deploys-tomcat10:/app dimmoney-app
4eefb8ec04a4592e4f85b8f9e06958c3de7fe3e28903a51480fc5c3267d13b15

C:\Users\diego>

```

Segundo desafio – Tecnologia Python

Print DOCKER FILE criado:

```
Dockerfile X
C: > Users > vailo > Dockerfile > ...
1  FROM python:3.9-slim
2
3  WORKDIR /app
4
5  ARG APP_NAME
6  ENV APP_NAME=$APP_NAME
7
8  COPY appRM97798.py /app
9
10 RUN chmod +x /app/appRM97798.py
11 CMD ["python", "/app/appRM97798.py"]
12
13
14
15 |
```

Print da tela da criação da imagem com sucesso e execução do docker container run:

```
C:\Users\vailo>docker build -t dimmoney-python --build-arg APP_NAME=appRM97798.py .
[+] Building 2.6s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 253B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e
=> [internal] load build context
=> => transferring context: 34B
=> CACHED [2/4] WORKDIR /app
=> CACHED [3/4] COPY appRM97798.py /app
=> [4/4] RUN chmod +x /app/appRM97798.py # Make the script executable
=> exporting to image
=> => exporting layers
=> => writing image sha256:0955dc33fdf767adeb6e67a4ced7d1531ea7a1a3164f1b71e61239eab5700cfd
=> => naming to docker.io/library/dimmoney-python

What's Next?
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C:\Users\vailo>docker run dimmoney-python
Deployment Successful

C:\Users\vailo>
```

Terceiro Desafio – Tecnologia NodeJs

Print Dockerfile criado:

```
EXPLORADOR
...
EXTENSÃO: open in browser
Dockerfile X

EDITORES ABERTOS
X Extensão: open in browser
X Dockerfile C:\Users\vailo

NENHUMA PASTA ABERTA
ESTRUTURA DO CÓDIGO
LINHA DO TEMPO
MYSQl

C: > Users > vailo > Dockerfile > ...
1 FROM node:lts-alpine3.19
2
3 WORKDIR /app-money
4
5 USER node
6
7 COPY index.js /app-money
8
9 EXPOSE 3030
10
11 CMD ["npm", "start"]
12
13
14
15
```

Print da tela da criação da imagem com sucesso e execução do docker container run:

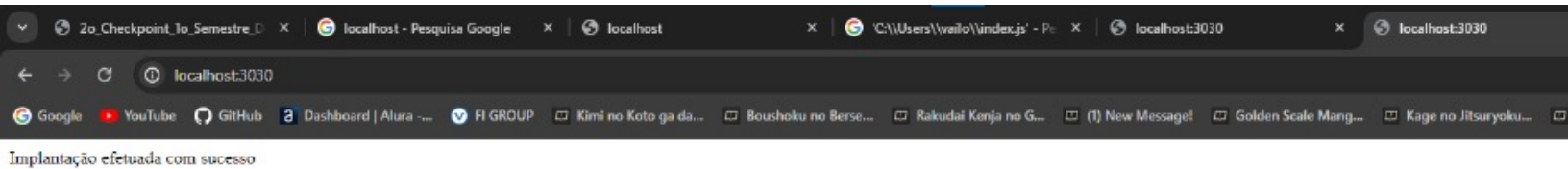
```
C:\Users\vailo>docker build -t dimmoney-node .
[+] Building 1.9s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 174B
=> [internal] load metadata for docker.io/library/node:lts-alpine3.19
=> [auth] library/node:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 272B
=> [1/3] FROM docker.io/library/node:lts-alpine3.19@sha256:ec0c413b1d84f3f7f67ec986ba885930c57b5318d2eb3abc6960e
=> CACHED [2/3] WORKDIR /app-money
=> [3/3] COPY index.js /app-money
=> exporting to image
=> => exporting layers
=> => writing image sha256:bb883e3506400cdf70751a25563cd69d1412d686d6f6f67a6e1fe5e838f1e450
=> => naming to docker.io/library/dimmoney-node

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\vailo>docker run -d --name dimmoney-node -v /home/vailo/Desktop/my-app:/app-money dimmoney-node
0a055b5168f01618ceaa5c91d3e8ec40eb9f4c6f85fc931f050cdab641f6f2a

C:\Users\vailo>
```

Print do Web Browser com a aplicação rodando:

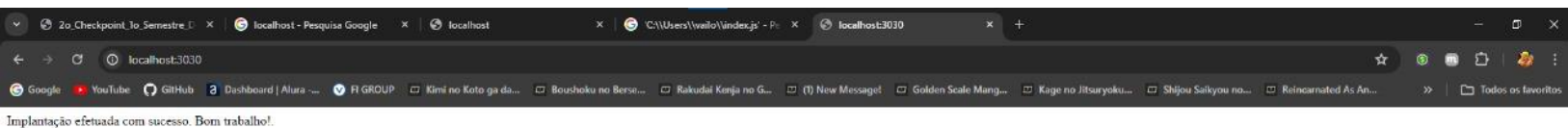



```
Volume: [+] Building 1.7s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 174B
=> [auth] library/node:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/node:lts-alpine3.19@sha256:ec0c413b1d84f3f7f67ec986ba885930c57b5318d2eb3abc6960e
=> [internal] load build context
=> => transferring context: 288B
=> CACHED [2/3] WORKDIR /app-money
=> [3/3] COPY index.js /app-money
=> exporting to image
=> => exporting layers
=> => writing image sha256:6290faa2e58e29016102888e9d5f531557f04be444101a4a3b7617f4516488aa
=> => naming to docker.io/library/dimmoney-node

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\vailo>docker run -d --name dimmoney-node -v /home/vailo/Desktop/my-app:/app-money dimmoney-node
3386fcd8838ed350b0e0775dad59c061ea6fdb2e78ce8a820e3f6a20487ebda2

C:\Users\vailo>
```



Gitub com os Dockerfiles: <https://github.com/DiegoMS19441/Devops>