DEVOPS TOOLS E CLOUD COMPUTING

CP 2
Dockerfile

2TDSPV

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CP 2

RM551191 - Diego Mascarenhas Santos

RM98482 - Sarah Oliveira Souza Rosa

RM97798 - Ester Dutra da Silva

RM550981- Henrique Gerson Costa Correia

RM550341- Allef Santos

2TDSPV

Primeiro Desafio – Tecnologia Java

```dockerfile
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                                                                 docker:default
 => [internal] load build definition from Dockerfile                                                      0.0s
 => => transferring dockerfile: 261B                                                                      0.0s
 => [internal] load metadata for docker.io/library/tomcat:10                                              1.4s
 => [auth] library/tomcat:pull token for registry-1.docker.io                                            0.0s
 => [internal] load .dockerignore                                                                         0.0s
 => => transferring context: 2B                                                                           0.0s
 => [1/3] FROM docker.io/library/tomcat:10@sha256:a768924119030b778276c46dc19293cc8e4deae63b6b61dd8c2990df2917d00e  0.0s
 => [internal] load build context                                                                        0.0s
 => => transferring context: 44B                                                                          0.0s
 => CACHED [2/3] WORKDIR /usr/local/tomcat/webapps                                                        0.0s
 => CACHED [3/3] COPY DimMoneyAppRM97798.war /usr/local/tomcat/webapps/DimMoneyAppRM97798.war             0.0s
 => exporting to image                                                                                    0.0s
 => => exporting layers                                                                                   0.0s
 => => writing image sha256:0c184d3fadc088ee4684079b988ea1473c38718ae92a0f0eca54e7d638af52a0             0.0s
 => => naming to docker.io/library/dimmoney-app                                                           0.0s

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  ×

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                                                          docker:default
 => [internal] load build definition from Dockerfile                                                0.1s
 => => transferring dockerfile: 253B                                                                0.1s
 => [internal] load metadata for docker.io/library/python:3.9-slim                                  1.6s
 => [auth] library/python:pull token for registry-1.docker.io                                       0.0s
 => [internal] load .dockerignore                                                                   0.0s
 => => transferring context: 2B                                                                     0.0s
 => [1/4] FROM docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e  0.0s
 => [internal] load build context                                                                   0.0s
 => => transferring context: 34B                                                                    0.0s
 => CACHED [2/4] WORKDIR /app                                                                        0.0s
 => CACHED [3/4] COPY appRM97798.py /app                                                             0.0s
 => [4/4] RUN chmod +x /app/appRM97798.py  # Make the script executable                             0.7s
 => exporting to image                                                                              0.1s
 => => exporting layers                                                                             0.1s
 => => writing image sha256:0955dc33fdf767adeb6e67a4ced7d1531ea7a1a3164f1b71e61239eab5700cfd         0.0s
 => => naming to docker.io/library/dimmoney-python                                                  0.0s

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

C:\Users\vailo>docker run dimmoney-python
Deployment Successful

C:\Users\vailo>D
```

Terceiro Desafio – Tecnologia NodeJs

Print Dockerfile criado:

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                                           docker:default
 => [internal] load build definition from Dockerfile                              0.0s
 => => transferring dockerfile: 174B                                              0.0s
 => [internal] load metadata for docker.io/library/node:lts-alpine3.19            1.4s
 => [auth] library/node:pull token for registry-1.docker.io                      0.0s
 => [internal] load .dockerignore                                                0.0s
 => => transferring context: 2B                                                  0.0s
 => [internal] load build context                                                0.0s
 => => transferring context: 272B                                                0.0s
 => [1/3] FROM docker.io/library/node:lts-alpine3.19@sha256:ec0c413b1d84f3f7f67ec986ba885930c57b5318d2eb3abc6960e  0.0s
 => CACHED [2/3] WORKDIR /app-money                                               0.0s
 => [3/3] COPY  index.js /app-money                                               0.1s
 => exporting to image                                                           0.1s
 => => exporting layers                                                          0.0s
 => => writing image sha256:bb883e3506400cdf70751a25563cd69d1412d686d6f6f67a6e1fe5e838f1e450  0.0s
 => => naming to docker.io/library/dimmoney-node                                 0.0s

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
0a055b5168f01618ceeaa5c91d3e8ec40eb9f4c6f85fc931f050cdab641f6f2a

C:\Users\vailo>
```

Print do Web Browser com a aplicação rodando:

Implantação efetuada com sucesso
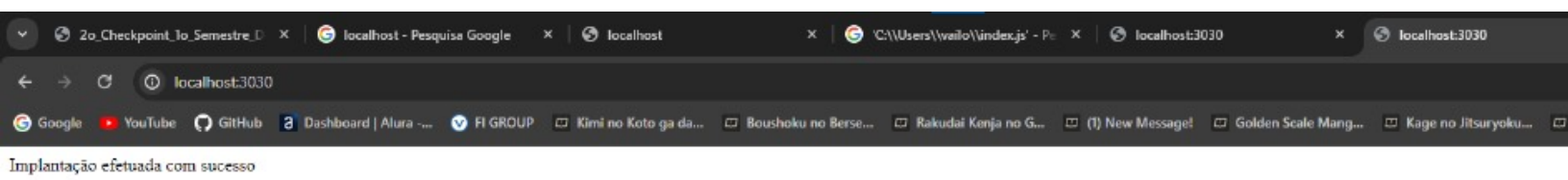
Print dos procedimentos para realizar o Redeploy:

```
[+] Building 1.7s (9/9) FINISHED                                          docker:default
 => [internal] load build definition from Dockerfile                            0.0sb => => tra
nsferring dockerfile: 174B                                                      0.0so => [internal] load
metadata for docker.io/library/node:lts-alpine3.19                    1.3s
 => [auth] library/node:pull token for registry-1.docker.io                     0.0s
 => [internal] load .dockerignore                                               0.0s
 => => transferring context: 2B                                                 0.0s
 => [1/3] FROM docker.io/library/node:lts-alpine3.19@sha256:ec0c413b1d84f3f7f67ec986ba885930c57b5318d2eb3abc6960e  0.0s
 => [internal] load build context                                               0.0s
 => => transferring context: 288B                                               0.0s
 => CACHED [2/3] WORKDIR /app-money                                             0.0s
 => [3/3] COPY  index.js /app-money                                            0.1s
 => exporting to image                                                         0.1s
 => => exporting layers                                                         0.1s
 => => writing image sha256:6290faa2e58e29016102888e9d5f531557f04be444101a4a3b7617f4516488aa  0.0s
 => => naming to docker.io/library/dimmoney-node                               0.0s

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>
```

Implantação efetuada com sucesso. Bom trabalho!.