

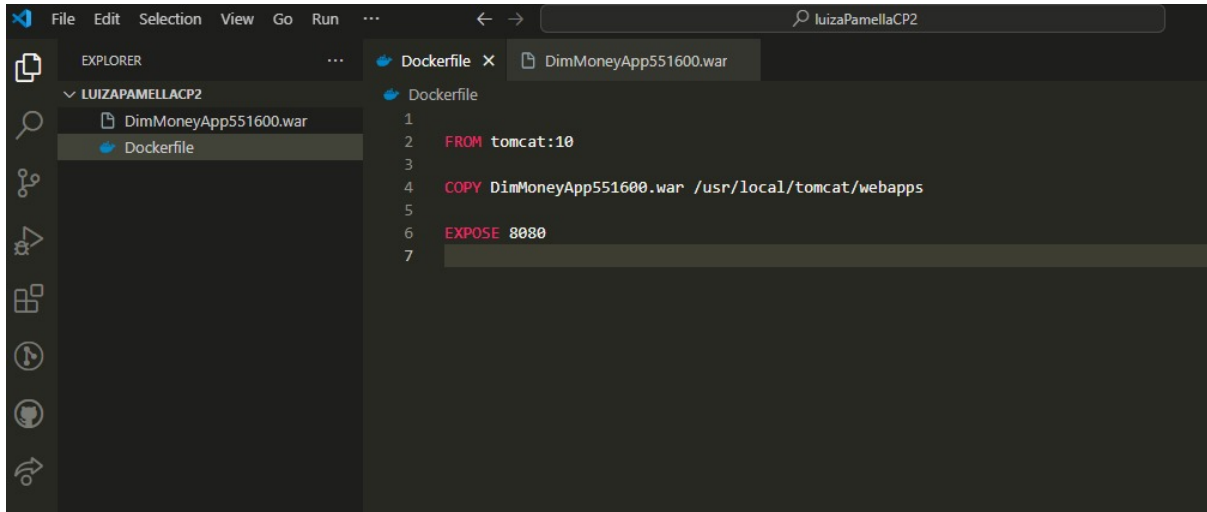
Checkpoint 2 - DevOps Prints

Luiza Nunes de Jesus - 99768
Pamella Schimalesky Engholm - 551600

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Desafio 1 - Tecnologia Java

Dockerfile



Criação da imagem com sucesso

```
PS C:\Users\luiza\luizaPamellaCP2> docker build -t dimmoney-app .
2024/04/25 21:35:51 http2: server: error reading preface from client //./pipe/docker_engine: file has already
been closed
[+] Building 1.3s (7/7) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 126B                             0.0s
=> [internal] load metadata for docker.io/library/tomcat:10     0.7s
=> [internal] load .dockerignore                               0.0s
=> => transferring context: 2B                                   0.0s
=> [internal] load build context                                0.0s
=> => transferring context: 4.93kB                               0.0s
=> CACHED [1/2] FROM docker.io/library/tomcat:10@sha256:582f3de763911c26b2496a6b4d348a01ce774888247c7c 0.0s
=> => resolve docker.io/library/tomcat:10@sha256:582f3de763911c26b2496a6b4d348a01ce774888247c7caa9bed7 0.0s
=> [2/2] COPY DimMoneyApp551600.war /usr/local/tomcat/webapps  0.2s
=> exporting to image                                           0.1s
=> => exporting layers                                          0.1s
=> => writing image sha256:05c1600ad0fa56abae34e35d20a85243b5f87b7384467d74be63daa69b26f023 0.0s
=> => naming to docker.io/library/dimmoney-app                 0.0s

View build details: docker-desktop://dashboard/build/default/default/2jcfm8x5c96wsvav0tzjd4rdr

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

Execução do docker container run

```
PS C:\Users\luiza\luizaPamellaCP2> docker run -d --name dimmoney551600 -v deploys-tomcat10:/usr/local/tomcat/w
ebapps -p 8080:8080 dimmoney-app
1275ba5d10534aabf75061ea1f89638a7522a042a0a3ee0a6d34a5e8c0158cf9
```

Diretório: /usr/local/tomcat/webapps/ com ls -l

```
root@85ee8clacd21:/usr/local/tomcat# ls -l
total 168
drwxr-xr-x 2 root root 4096 Apr 24 23:19 bin
-rw-r--r-- 1 root root 21043 Apr 16 12:17 BUILDING.txt
drwxr-xr-x 1 root root 4096 Apr 25 22:56 conf
-rw-r--r-- 1 root root 6210 Apr 16 12:17 CONTRIBUTING.md
drwxr-xr-x 2 root root 4096 Apr 24 23:18 lib
-rw-r--r-- 1 root root 60393 Apr 16 12:17 LICENSE
drwxrwxrwt 1 root root 4096 Apr 25 22:56 logs
drwxr-xr-x 2 root root 4096 Apr 24 23:19 native-jni-lib
-rw-r--r-- 1 root root 2333 Apr 16 12:17 NOTICE
-rw-r--r-- 1 root root 3298 Apr 16 12:17 README.md
-rw-r--r-- 1 root root 6776 Apr 16 12:17 RELEASE-NOTES
-rw-r--r-- 1 root root 16076 Apr 16 12:17 RUNNING.txt
drwxrwxrwt 2 root root 4096 Apr 24 23:18 temp
drwxr-xr-x 2 root root 4096 Apr 24 23:18 webapps
drwxr-xr-x 7 root root 4096 Apr 16 12:17 webapps.dist
-rwxr-xr-x 1 root root 4877 Apr 25 22:29 webapps
drwxrwxrwt 2 root root 4096 Apr 16 12:17 work
```

Log do Container

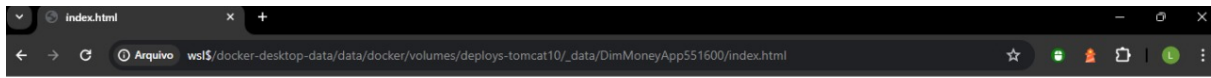
```
177b6a31863b4b7f560a1f8963a91a2220a7a1a3e6a544a6c8c15c4f9
PS C:\Users\luiza\luisa\PanelaCP2> docker logs dimoney551600
26-Apr-2024 00:36:40.996 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version name: Apache Tomcat/10.1.23
26-Apr-2024 00:36:41.019 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server built: Apr 16 2024 12:17:18 UTC
26-Apr-2024 00:36:41.019 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version number: 10.1.23.0
26-Apr-2024 00:36:41.020 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Name:
Linux
26-Apr-2024 00:36:41.020 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Version: 5.15.186.1-microsoft-standard-WSL2
26-Apr-2024 00:36:41.020 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Architecture: amd64
26-Apr-2024 00:36:41.020 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Java Home:
/opt/java/openjdk
26-Apr-2024 00:36:41.020 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Version: 21.0.3+9-LTS
26-Apr-2024 00:36:41.020 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Vendor: Eclipse Adoptium
26-Apr-2024 00:36:41.020 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_BASE: /usr/local/tomcat
26-Apr-2024 00:36:41.021 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_HOME: /usr/local/tomcat
26-Apr-2024 00:36:41.079 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.config.file=/usr/local/tomcat/conf/logging.properties
26-Apr-2024 00:36:41.079 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
26-Apr-2024 00:36:41.079 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djdk.tls.ephemeralDHKeySize=2048
26-Apr-2024 00:36:41.080 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.protocol.handler.pkcs=org.apache.catalina.webresources
26-Apr-2024 00:36:41.080 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dorg.apache.catalina.security.SecurityListener.UMASK=0027
26-Apr-2024 00:36:41.080 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.lang=ALL-UNNAMED
26-Apr-2024 00:36:41.080 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.io=ALL-UNNAMED
26-Apr-2024 00:36:41.081 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.util=ALL-UNNAMED
26-Apr-2024 00:36:41.081 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.util.concurrent=ALL-UNNAMED
26-Apr-2024 00:36:41.081 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED
26-Apr-2024 00:36:41.081 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.base=/usr/local/tomcat
26-Apr-2024 00:36:41.081 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.home=/usr/local/tomcat
26-Apr-2024 00:36:41.082 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.io.tmpdir=/usr/local/tomcat/temp
26-Apr-2024 00:36:41.169 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent Loaded Apache Tomcat Native library [2.0.7] using APR version [1.7.0].
26-Apr-2024 00:36:41.275 INFO [main] org.apache.catalina.core.AprLifecycleListener.initializeSSL OpenSSL successfully initialized [OpenSSL 3.0.2 15 Mar 2022]
26-Apr-2024 00:36:42.339 INFO [main] org.apache.coyote.AbstractProtocol.init Initializing ProtocolHandler ["http-nio-8080"]
26-Apr-2024 00:36:42.425 INFO [main] org.apache.catalina.startup.Catalina.load Server initialization in [2001] milliseconds
26-Apr-2024 00:36:42.622 INFO [main] org.apache.catalina.core.StandardService.startInternal Starting service [Catalina]
26-Apr-2024 00:36:42.623 INFO [main] org.apache.catalina.core.StandardEngine.startInternal Starting Servlet engine: [Apache Tomcat/10.1.23]
26-Apr-2024 00:36:42.707 WARNING [main] org.apache.catalina.core.StandardContext.setPath A context path must either be an empty string or start with a '/'. The path
[/] does not meet these criteria and has been changed to []
26-Apr-2024 00:36:42.719 INFO [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [/usr/local/tomcat/webapps/DimMoneyApp551600.war]
26-Apr-2024 00:36:43.660 INFO [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [/usr/local/tomcat/webapps/DimMoneyApp551600.war] has finished in
[940] ms
26-Apr-2024 00:36:43.673 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
26-Apr-2024 00:36:43.727 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [1299] milliseconds
```

Web Browser com a aplicação rodando

localhost:8080/DimMoneyApp551600/index.html

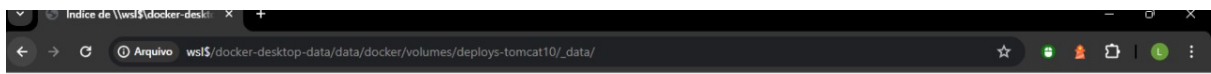
Deploy efetuado com sucesso no Servidor Tomcat 10

Volume em seu Host com o Deploy efetuado



Deploy efetuado com sucesso no Servidor Tomcat 10

Volume em seu Host com o Undeploy efetuado

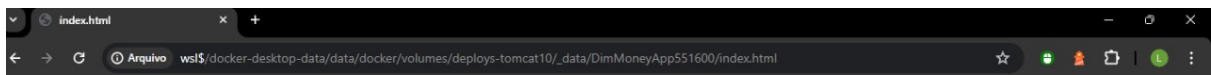


Índice de \\ws1\$\docker-desktop-data\data\docker\volumes\deploys-tomcat10_data\

[diretório pai]

Nome Tamanho Data da modificação

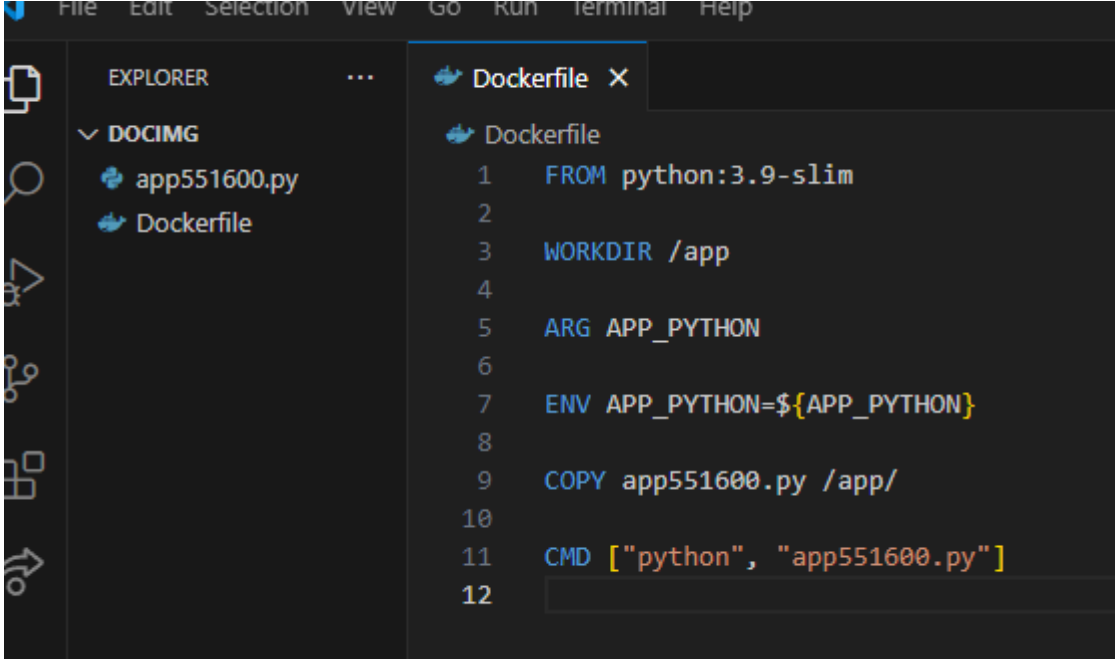
Volume em seu Host com o Redeploy efetuado



Deploy efetuado com sucesso no Servidor Tomcat 10. Bom trabalho!

Desafio 2 - Tecnologia Python

Dockerfile



```
1 FROM python:3.9-slim
2
3 WORKDIR /app
4
5 ARG APP_PYTHON
6
7 ENV APP_PYTHON=${APP_PYTHON}
8
9 COPY app551600.py /app/
10
11 CMD ["python", "app551600.py"]
12
```

Criação da imagem com sucesso

```
C:\Users\user\docimg>docker build --build-arg APP_PYTHON=app551600.py -t dimmoney-python .
2024/04/23 15:58:38 http2: server: error reading preface from client //./pipe/docker_engine: file has already been closed
[+] Building 8.1s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 188B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e
=> => resolve docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e
=> => sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e74190f0 1.86kB / 1.86kB
=> => sha256:aade58da89dabdac159ba0e5ca98d9fa665c17d194f977e5b95994005edbf37b 1.37kB / 1.37kB
=> => sha256:14f71980249a936927e19160681536f5f83d8814790ca4befb9b5439eabd042 6.90kB / 6.90kB
=> => sha256:13808c22b207b066ef43572e57e4fb8c6172e887dd9a918c089a174a19371b7a 29.13MB / 29.13MB
=> => sha256:6c9a484475c10b31eadca58e66b24d9babf508955f52c40080a00595c55cc6c1 3.51MB / 3.51MB
=> => sha256:4a81626d2c6be5f7d7e1da92369e83a013dd773f83958f463314daa30b7e2dd 11.89MB / 11.89MB
=> => sha256:e8690706172b28215b62640a817fd89cc50c6a011c0877e20be0956b6312bc70 244B / 244B
=> => sha256:8c60f620628dd111479032e759bd057e2c05944ad339ae62dc218bbff01f9bed 3.13MB / 3.13MB
=> => extracting sha256:13808c22b207b066ef43572e57e4fb8c6172e887dd9a918c089a174a19371b7a
=> => extracting sha256:6c9a484475c10b31eadca58e66b24d9babf508955f52c40080a00595c55cc6c1
=> => extracting sha256:4a81626d2c6be5f7d7e1da92369e83a013dd773f83958f463314daa30b7e2dd
=> => extracting sha256:e8690706172b28215b62640a817fd89cc50c6a011c0877e20be0956b6312bc70
=> => extracting sha256:8c60f620628dd111479032e759bd057e2c05944ad339ae62dc218bbff01f9bed
=> [internal] load build context
=> => transferring context: 82B
=> [2/3] WORKDIR /app
=> [3/3] COPY app551600.py /app/
=> => exporting to image
=> => exporting layers
=> => writing image sha256:e933b7f02b104d1cae199b690b649c6e7f2d4d490609139e471705124e60d164
=> => naming to docker.io/library/dimmoney-python
View build details: docker-desktop://dashboard/build/default/default/u5v1jim50kpgsrfbcm1h4oh8
What's Next?
View a summary of image vulnerabilities and recommendations -> docker scout quickview
```

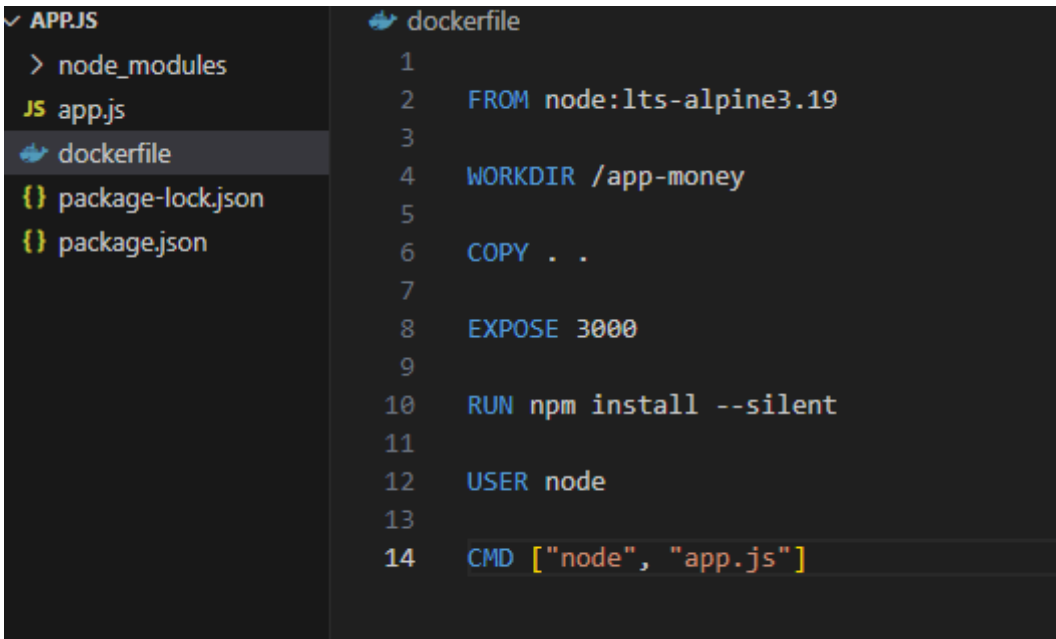
Execução do Docker container run

```
C:\Users\user\docimg>docker run --rm dimmoney-python
```

Implantação efetuada com sucesso

Desafio 3 - Tecnologia NodeJs

Dockerfile



```
1
2 FROM node:lts-alpine3.19
3
4 WORKDIR /app-money
5
6 COPY . .
7
8 EXPOSE 3000
9
10 RUN npm install --silent
11
12 USER node
13
14 CMD ["node", "app.js"]
```

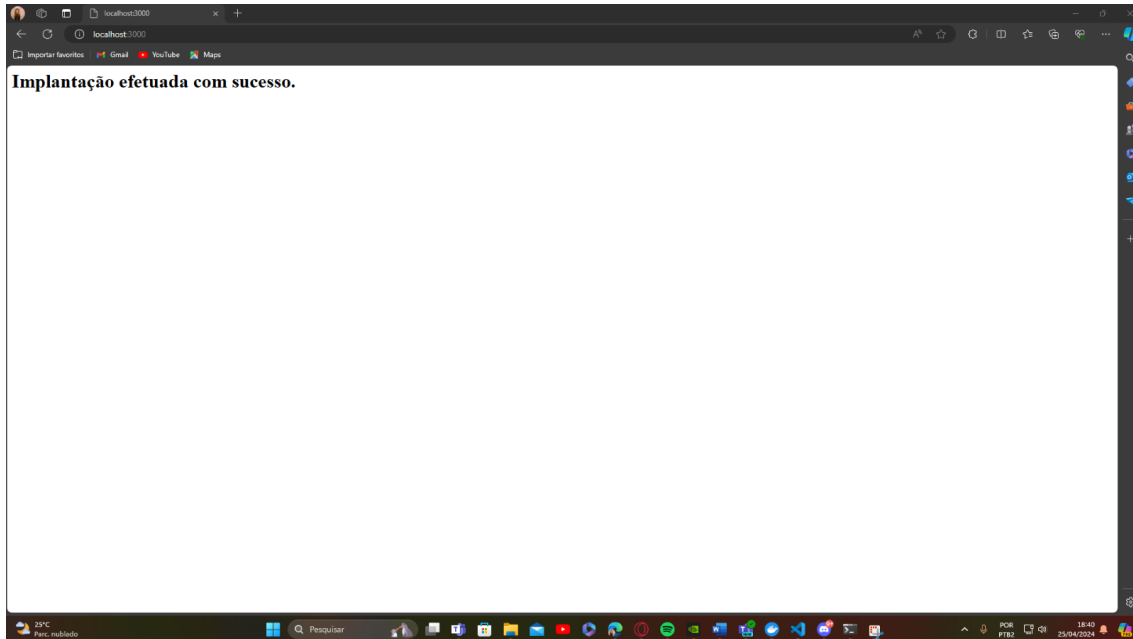
Tela da criação da imagem com sucesso

```
C:\Users\user\app.js>docker build -t dimmoney-node .
2024/04/25 18:34:06 http2: server: error reading preface from client //./pipe/docker_engine: file has already been closed
[+] Building 2.7s (10/10) FINISHED                                docker:default
=> [internal] load build definition from dockerfile                0.0s
=> => transferring dockerfile: 181B                                0.0s
=> [internal] load metadata for docker.io/library/node:lts-alpine3.19 1.2s
=> [auth] library/node: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/node:lts-alpine3.19@sha256:7a91aa397f2e2dfbfcdad2e2d72599f374e0b0172be1d86eeb73f 0.0s
=> [internal] load build context                                  0.0s
=> => transferring context: 34.45kB                                  0.0s
=> CACHED [2/4] WORKDIR /app-money                                0.0s
=> [3/4] COPY . .                                                 0.3s
=> [4/4] RUN npm install --silent                                  1.0s
=> exporting to image                                             0.1s
=> => exporting layers                                              0.1s
=> writing image sha256:8f2ecce31ec56d8df6d8c061845b7e8ba89602e52baef084059d39df7c53f56c 0.0s
=> naming to docker.io/library/dimmoney-node                     0.0s

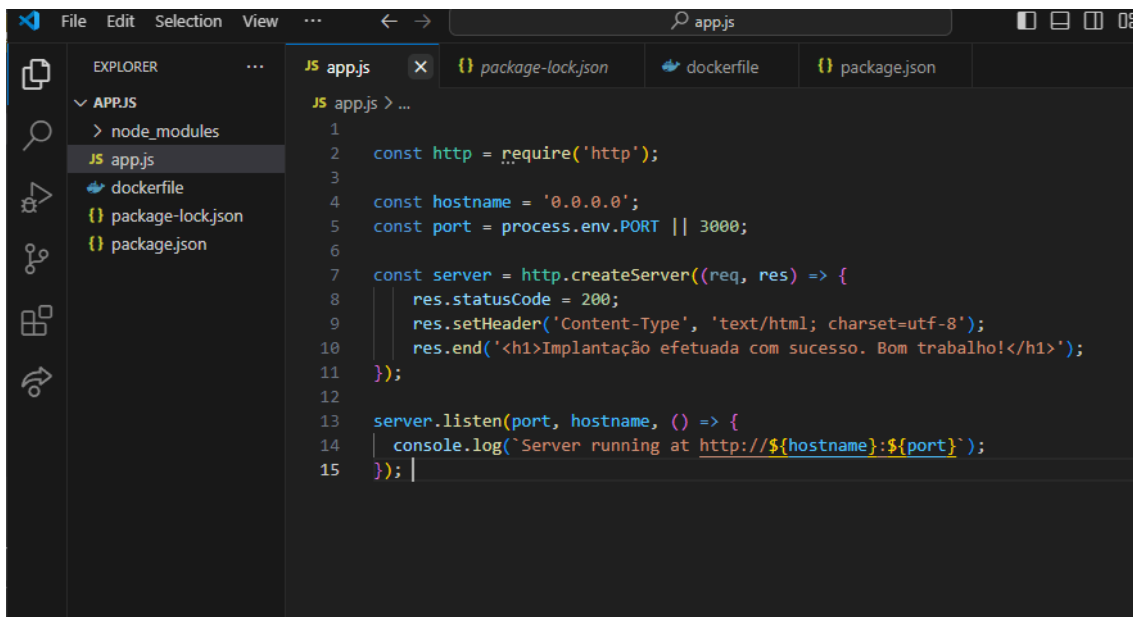
View build details: docker-desktop://dashboard/build/default/default/gk57quiqoo5qrlicndlj5zih0
```

Execução do Docker container run

```
C:\Users\user\app.js>docker container run --name dimmoney-node-551600 -d -v /app-money -p 3000:3000 dimmoney-node-  
ea30f41a1d4c59ff87f4135589980ed17135cc4bb6cc9a845001394fb620917b
```



Redeploy



```
C:\Users\user\app.js>docker stop dimmoney-node-551600
dimmoney-node-551600

C:\Users\user\app.js>docker rm dimmoney-node-551600
dimmoney-node-551600

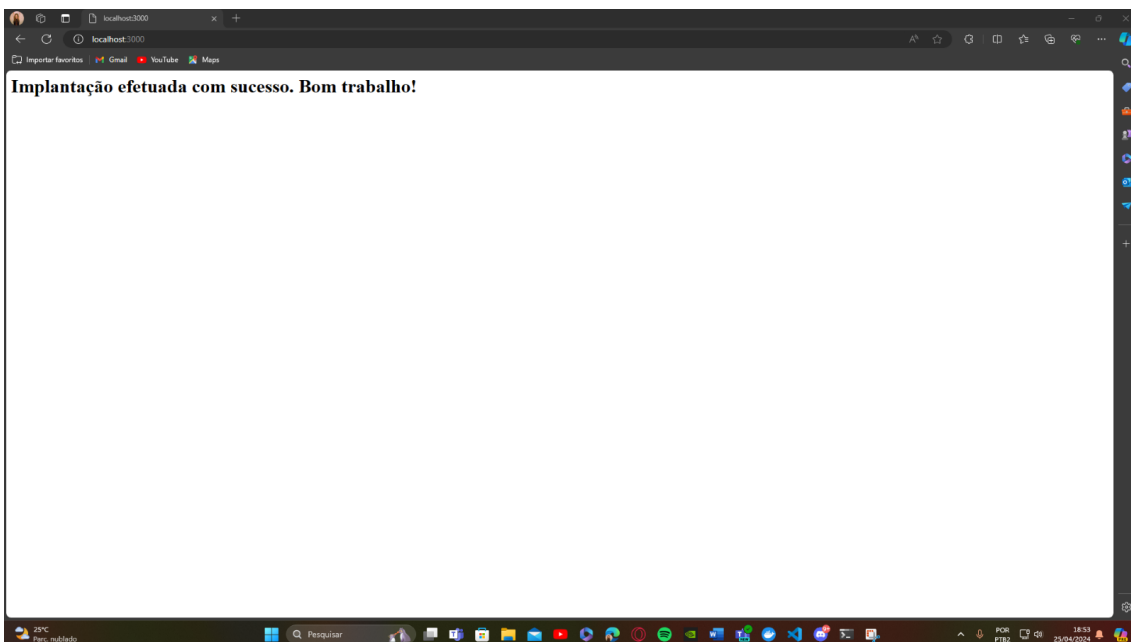
C:\Users\user\app.js>docker build -t dimmoney-node .
[+] Building 0.0s (0/0)  docker:default
2024/04/25 18:52:23 http2: server: error reading preface from client //./pipe/docker_engine: file has already been close
[+] Building 2.6s (10/10) FINISHED  docker:default
=> [internal] load build definition from dockerfile 0.0s
=> => transferring dockerfile: 181B 0.0s
=> [internal] load metadata for docker.io/library/node:lts-alpine3.19 1.2s
=> [auth] library/node: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/node:lts-alpine3.19@sha256:7a91aa397f2e2dfbfcad2e2d72599f374e0b0172be1d86eeb73f 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 34.46kB 0.0s
=> CACHED [2/4] WORKDIR /app-money 0.0s
=> [3/4] COPY . . 0.2s
=> [4/4] RUN npm install --silent 1.0s
=> exporting to image 0.1s
=> => writing image sha256:fe27062a12b32b1d342526ebd297b3ca868d3a9cc69c5d4a159965d2fc84da5d 0.0s
=> => naming to docker.io/library/dimmoney-node 0.0s

View build details: docker-desktop://dashboard/build/default/default/sotr4acr18f16vtn5nbc4hae0
```

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

C:\Users\user\app.js>docker container run --name dimmoney-node-551600 -d -v /app-money -p 3000:3000 dimmoney-node
44aea625124ff8be7227b8ed42b33071d67f8828d1ed4e972694b250cf4ab699

C:\Users\user\app.js>
```





Link dos repositórios:

Java:

<https://github.com/Pamschimalessky/cp2-java>

Python

<https://github.com/Pamschimalessky/cp2-python>

Node:

<https://github.com/Pamschimalessky/cp2-js>