



DEVOPS TOOLS & CLOUD COMPUTING

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Checkpoint 02 25/04/2024

Dockerfile

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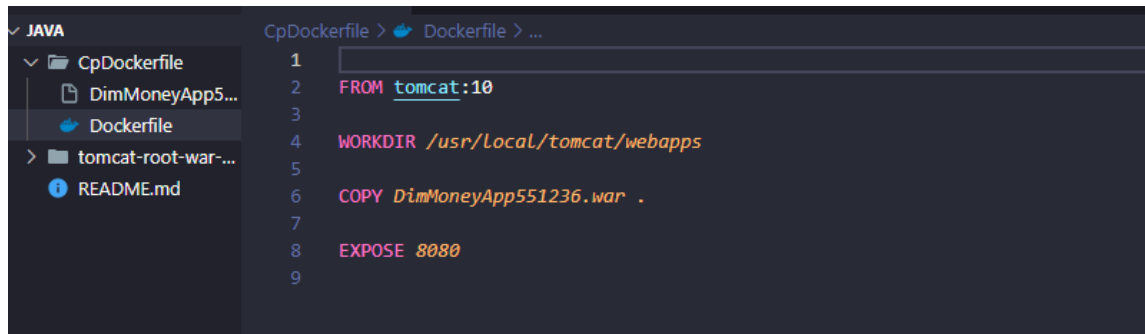
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1) Desafio Java

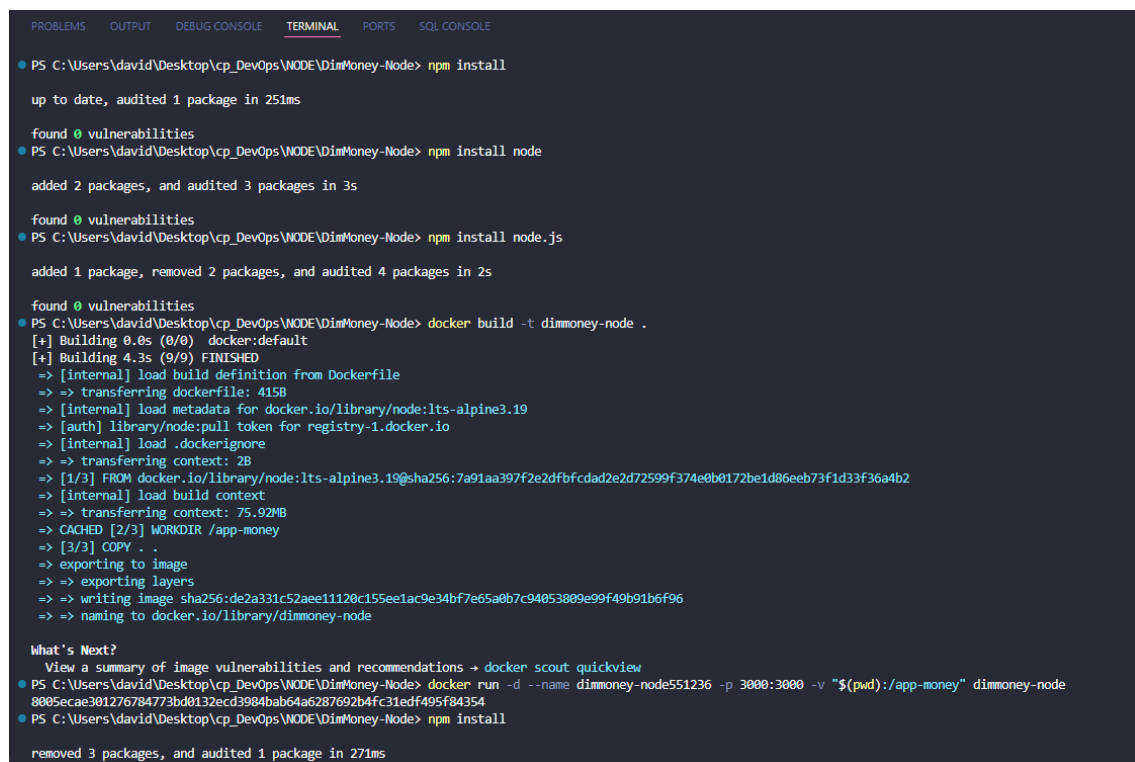
Repositório: <https://github.com/davidbryan20/DevOpsCp>

🕒 Print do Dockerfile criado:



```
1
2 FROM tomcat:10
3
4 WORKDIR /usr/local/tomcat/webapps
5
6 COPY DimMoneyApp551236.war .
7
8 EXPOSE 8080
9
```

Print da tela da criação da imagem com sucesso e Print da execução do docker container run (um print do terminal):



```
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install
up to date, audited 1 package in 251ms
found 0 vulnerabilities
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install node
added 2 packages, and audited 3 packages in 3s
found 0 vulnerabilities
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install node.js
added 1 package, removed 2 packages, and audited 4 packages in 2s
found 0 vulnerabilities
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> docker build -t dimmoney-node .
[+] Building 0.0s (0/0) docker:default
[+] Building 4.3s (9/9) FINISHED
-> [internal] load build definition from Dockerfile
-> => transferring dockerfile: 415B
-> [internal] load metadata for docker.io/library/node:its-alpine3.19
-> [auth] library/node:pull token for registry-1.docker.io
-> [internal] load .dockerignore
-> => transferring context: 2B
-> [1/3] FROM docker.io/library/node:its-alpine3.19@sha256:7a91aa397f2e2dfbfcad2e2d72599f374e0b0172be1d86eeb73f1d33f36a4b2
-> [internal] load build context
-> => transferring context: 75.92MB
-> CACHED [2/3] WORKDIR /app-money
-> [3/3] COPY . .
-> exporting to image
-> => exporting layers
-> => writing image sha256:de2a331c52aee11128c155ee1ac9e34bf7e65a0b7c94853809e99f49b91b6f96
-> => naming to docker.io/library/dimmoney-node

What's Next?
View a summary of image vulnerabilities and recommendations -> docker scout quickview
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> docker run -d --name dimmoney-node551236 -p 3000:3000 -v "$(pwd):/app-money" dimmoney-node
8005ecae301276784773bd0132ecd3984bab64a6287692b4fc31edf495f84354
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install
removed 3 packages, and audited 1 package in 271ms
```

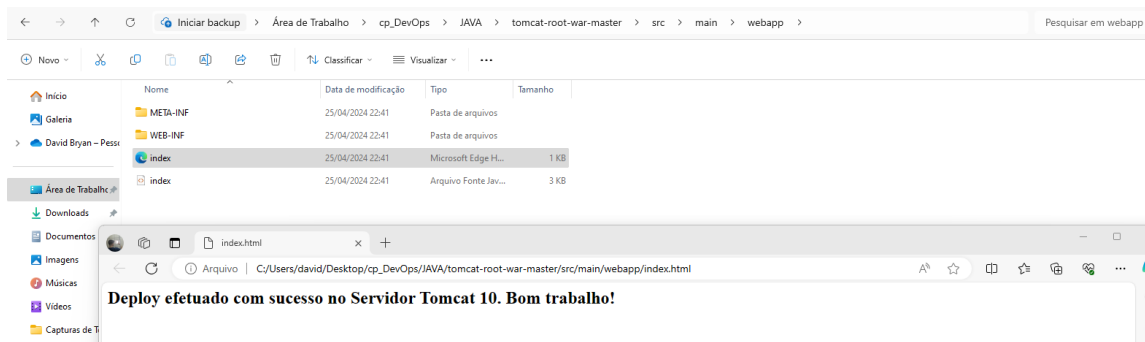
Print do Log do Container (print do terminal. Não acessar pelo log do Docker Desktop).
Pode ser somente as últimas linhas, o que couber no seu terminal:

```
PS C:\Users\David\Desktop\cp_devops\JAVA\CpDockerFile> docker logs dimoney551236
26-Apr-2024 01:58:41.291 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version name: Apache Tomcat/10.1.23
26-Apr-2024 01:58:41.295 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server built: Apr 16 2024 12:17:18 UTC
26-Apr-2024 01:58:41.295 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version number: 10.1.23.0
26-Apr-2024 01:58:41.296 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Name: Linux
26-Apr-2024 01:58:41.296 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Version: 5.15.146.1-microsoft-standard-WSL2
26-Apr-2024 01:58:41.297 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Architecture: amd64
26-Apr-2024 01:58:41.297 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Java Home: /opt/java/openjdk
26-Apr-2024 01:58:41.297 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Version: 21.0.3-b9-115
26-Apr-2024 01:58:41.297 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Vendor: Eclipse Adoptium
26-Apr-2024 01:58:41.298 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_BASE: /usr/local/tomcat
26-Apr-2024 01:58:41.298 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_HOME: /usr/local/tomcat
26-Apr-2024 01:58:41.309 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 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
26-Apr-2024 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djdk.tls.ephemeralDHKeySize=2048
26-Apr-2024 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.protocol.handler.pkgs=org.apache.catalina.webresources
26-Apr-2024 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dorg.apache.catalina.security.SecurityListener.UWSK-8027
26-Apr-2024 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.lang=ALL-UNNAMED
26-Apr-2024 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.io=ALL-UNNAMED
26-Apr-2024 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.util=ALL-UNNAMED
26-Apr-2024 01:58:41.309 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.util.concurrent=ALL-UNNAMED
26-Apr-2024 01:58:41.310 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED
26-Apr-2024 01:58:41.310 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.base=/usr/local/tomcat
26-Apr-2024 01:58:41.310 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.home=/usr/local/tomcat
26-Apr-2024 01:58:41.310 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line arguments: -Djava.io.tmpdir=/usr/local/tomcat/temp
26-Apr-2024 01:58:41.313 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 01:58:41.318 INFO [main] org.apache.catalina.core.AprLifecycleListener.initializeSSL OpenSSL successfully initialized [OpenSSL 3.0.2 15 Mar 2022]
26-Apr-2024 01:58:41.692 INFO [main] org.apache.coyote.AbstractProtocol.init Initializing ProtocolHandler ["http-nio-8080"]
26-Apr-2024 01:58:41.723 INFO [main] org.apache.catalina.startup.Catalina.load Server initialization in [622] milliseconds
26-Apr-2024 01:58:41.802 INFO [main] org.apache.catalina.core.StandardService.startInternal Starting service [Catalina]
26-Apr-2024 01:58:41.802 INFO [main] org.apache.catalina.core.StandardEngine.startInternal Starting Servlet engine: [Apache Tomcat/10.1.23]
26-Apr-2024 01:58:41.845 WARNING [main] org.apache.catalina.core.StandardContext.setPath A context path must either be an empty string or start with a '/' and do not end with a '/'. The path [/] does not meet these cri
teria and has been changed to []
26-Apr-2024 01:58:41.848 INFO [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [/usr/local/tomcat/webapps/DimMoneyApp551236.war]
26-Apr-2024 01:58:42.247 INFO [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [/usr/local/tomcat/webapps/DimMoneyApp551236.war] has finished in [399] ms
26-Apr-2024 01:58:42.253 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
26-Apr-2024 01:58:42.268 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [543] milliseconds
PS C:\Users\David\Desktop\cp_devops\JAVA\CpDockerFile> [
```

Print do Web Browser com a aplicação rodando (pegar a tela completa com o link da aplicação):

Print do Volume em seu Host (print da tela do Windows Explorer ou Console para Mac/Linux) com o Deploy efetuado:





2) Desafio Python

Print do Dockerfile criado:

```
Dockerfile X image.png app551236.py
DimMoney-Python > Dockerfile > ...
1 FROM python:3.9-slim
2
3 WORKDIR /app
4
5 ARG APP_NAME
6
7 ENV APP_NAME=$APP_NAME
8
9 COPY app551236.py .
10
11 CMD ["python", "app551236.py"]
```

Print da tela da criação da imagem com sucesso e Print da execução do docker container run (um print do terminal com o comando executado com sucesso e um print do terminal)

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE

=> => exporting layers
=> => writing image sha256:c010220675ec4786b4642c34657e27268dcb2d165962382fb71d707eaae87196
=> => naming to docker.io/library/dimmoney-python

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview
● PS C:\Users\david\Desktop\cp_DevOps\PYTHON\DimMoney-Python> docker run --rm dimmoney-python
Implantação efetuada com sucesso
PS C:\Users\david\Desktop\cp_DevOps\PYTHON\DimMoney-Python> |
```

3) Desafio Node

Print do Dockerfile criado:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE

=> => exporting layers
=> => writing image sha256:83ace712f5d0a615b2607d81aece9c70018bc1fff4f7d59ac1bfb952d0294681
=> => naming to docker.io/library/dimmoney-node

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview
PS C:\Users\david\Downloads\DimMoney-Node> docker run -d --name dimmoney-node551236 -p 3000:3000 -v "$(pwd):/app-money" dimmoney-node
cd62f2e57dd099094195d093910afe725058bdd8348568e4424432ec41c41203
PS C:\Users\david\Downloads\DimMoney-Node> 
```

Print da tela da criação da imagem com sucesso (um print do terminal) :

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE

PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install

up to date, audited 1 package in 251ms

found 0 vulnerabilities
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install node

added 2 packages, and audited 3 packages in 3s

found 0 vulnerabilities
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install node.js

added 1 package, removed 2 packages, and audited 4 packages in 2s

found 0 vulnerabilities
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> docker build -t dimmoney-node .
[+] Building 0.0s (0/0) docker:default
[+] Building 4.3s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 415B
=> [internal] load metadata for docker.io/library/node:its-alpine3.19
=> [auth] library/node:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/node:its-alpine3.19@sha256:7a91aa397f2e2dfbfcdad2e2d72599f374e0b0172be1d86eeb73f1d33f36a4b2
=> [internal] load build context
=> => transferring context: 75.92MB
=> CACHED [2/3] WORKDIR /app-money
=> [3/3] COPY . .
=> exporting to image
=> => exporting layers
=> => writing image sha256:de2a331c52aee11120c155ee1ac9e34bf7e65a0b7c94053809e99f49b91b6f96
=> => naming to docker.io/library/dimmoney-node

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> docker run -d --name dimmoney-node551236 -p 3000:3000 -v "$(pwd):/app-money" dimmoney-node
8005ecae381276784773bd0132ecd3984bab64a6287692b4fc31edf495f84354
PS C:\Users\david\Desktop\cp_DevOps\NODE\DimMoney-Node> npm install

removed 3 packages, and audited 1 package in 271ms
```

Considerações:

*O Sucesso não é uma meta,
É um caminho !!*

Mario Sergio Cortella