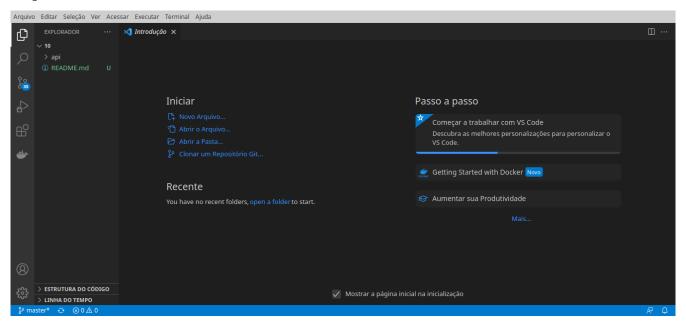
INSTITUTO FEDERAL DO CEARÁ – IFCE

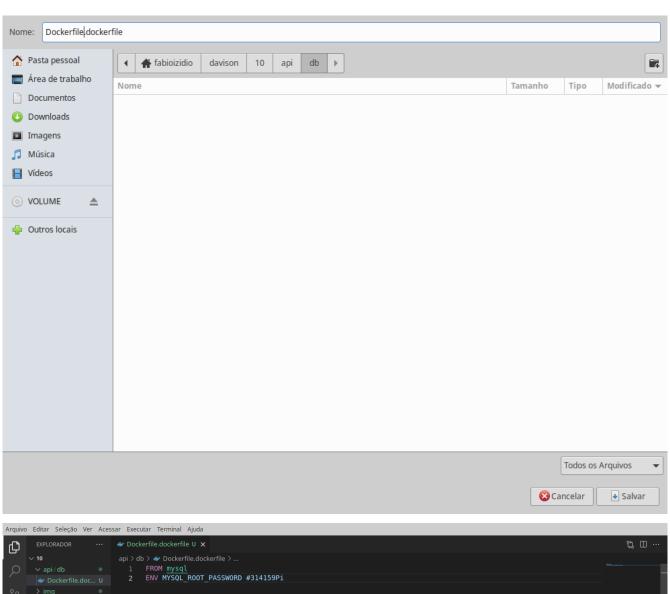
Davison Lennon de Lima Sousa

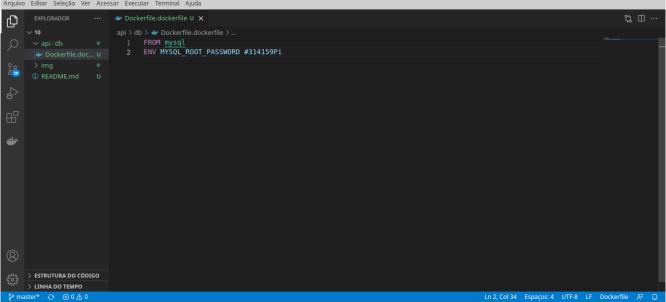
ATIVIDADE 10

• Implementem e evidencie o exemplo de uso de containers tal qual apesentado no vídeo no Youtube.

Capturas de Tela







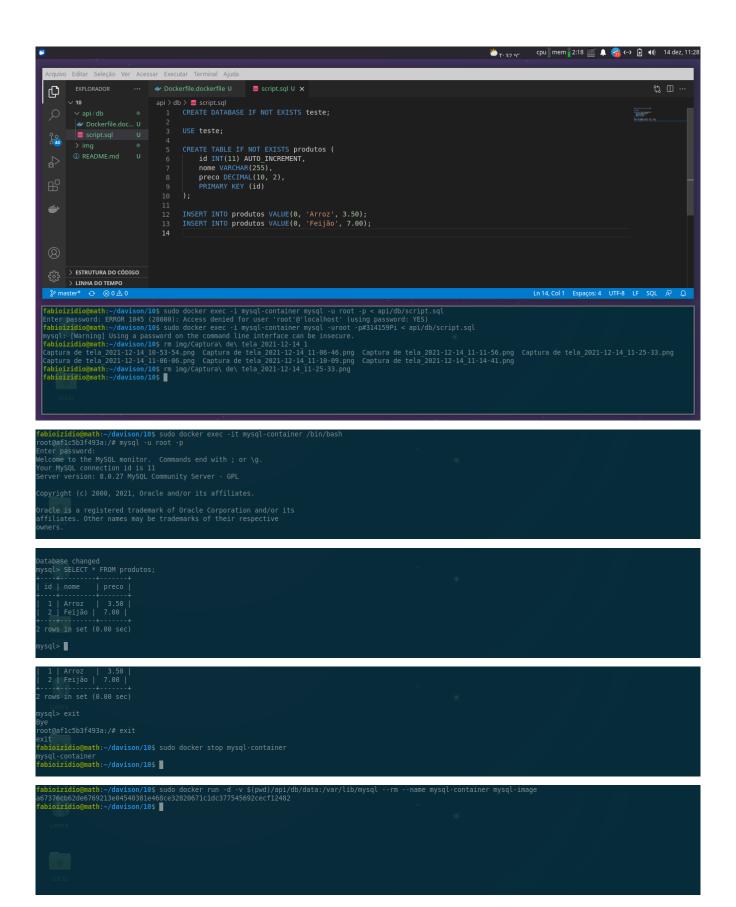
```
on/10$ sudo docker build -t mysql-image -f api/db/Dockerfile.
    sudo] senha para fabioizidio:
ending build context to Docker daemon 160.3kB
tep 1/2 : FROM mysql
    ### Table | Ta
      ### ABIO12/10.10gmain: ~/adv1sun/10s Sudo docker Image is
###POSITORY TAG IMAGE ID CREATED SIZE
ysql-image latest 15270db0a742 32 seconds ago 516MB
ysql latest bbf6571db497 12 days ago 516MB
abioizidio@math:~/davison/10s sudo docker run -d --rm --name mysql-container mysql-image
flc5b3f493a80c9cf19574bcdbd8b55f60825ceb5f117d891c80e6f44df4279
    abioizidio@math:~/davison/10$ sudo docker ps
ONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
flic5b3f493a mysql-image "docker-entrypoint.s..." 8 seconds ago Up 5 seconds 3306/tcp, 33060/tcp mysql-container
abioizidio@math:~/davison/10$ 

Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda

◆ Dockerfile.dockerfile U

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             script.sal U 🗴
      Ð
                                                                                                                                                                             api > db > ≡ script.sql

1 CREATE DATABASE IF NOT EXISTS teste;
                                                ≡ script.sql U
> img •
                                                                                                                                                                                                                                                 id INT(11) AUTO_INCREMENT,
nome VARCHAR(255),
preco DECIMAL(10, 2),
      <del>نك</del>
                                                                                                                                                                                                                        INSERT INTO produtos VALUE(0, 'Arroz', 3.50);
INSERT INTO produtos VALUE(0, 'Feijão', 7.00);
      > ESTRUTURA DO CÓDIGO
 In 14, Col 1 Espaços: 4 UTF-8 LF SQL & La SQL A 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ln 14, Col 1 Espaços: 4 UTF-8 LF SQL 🔊 🗘
```



```
16/3/foctbZqneb7692/13e04549381e466ce3282266/lcldc.377545692cecf12482
fabioizidio@math:-/davison/10$ sudo docker exec -i mysql-container mysql -uroot -p#314159Pi < api/db/script.sql
pysql: [Warning] Using a password on the command line interface can be insecure.
RROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
'abioizidio@math:-/davison/10$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
167376cb62de mysql-image "docker-entrypoint.s..." About a minute ago Up About a minute 3306/tcp, 33060/tcp mysql-container
abioizidio@math:-/davison/10$ sudo docker exec -it mysql-container /bin/bash
                                                                                                                                             📸 WS: 26 km/h cpu 🛮 mem 🖥 2:35 🌃 🔔 👩 🖘 🖟 🜒 14 dez, 11:45
                                                                  script.sql U x
                                                                                                                                                                                                ც Ⅲ ...
  Ф
                                           CREATE DATABASE IF NOT EXISTS teste;
                                            CREATE TABLE IF NOT EXISTS produtos (
                                              id INT(11) AUTO_INCREMENT,
nome VARCHAR(255),
preco DECIMAL(10, 2),
   ىنت
                                            INSERT INTO produtos VALUE(0, 'Arroz', 3.50);
INSERT INTO produtos VALUE(0, 'Feijão', 7.00);
  > ESTRUTURA DO CÓDIGO
> LINHA DO TEMPO
                                                                                                                                                          Ln 14, Col 1 Espaços: 4 UTF-8 LF SQL 🔊 🗘
  fabioizidio@math:~/davison/10$ sudo docker build -t mysql-image -f api/db/Dockerfile.dockerfile
ending build context to Docker daemon 192.7MB
ttep 1/2: FROM mysql
---> bbf6571db497
                                                                                                                                  12-14_11-39-36.png
fabioizidio@math:~/davison/10$
 ---> bbf6571db497

Step 2/2 : ENV MYSQL_ROOT_PASSWORD #314159Pi
---> Using cache
---> 15270db0a742

Successfully built 15270db0a742

Successfully tagged mysql-image:latest
fabioizidio@math:-/davison/105 sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
fabioizidio@math:-/davison/105 docker image ls
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.so
fabioizidio@math:~/davison/10$ sudo docker build -t mysql-image -f api/db/Dockerfile.dockerfile .
Step 1/2 : FROM mysql
 ---> bbf6571db497
fabioizidio@math:~/davison/10$ sudo docker ps
CONTAINER ID IMAGE
                                                COMMAND CREATED STATUS
fabioizidio@math:~/davison/10$ docker image ls
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.so
fabioizidio@math:~/davison/10$ sudo docker ps
CONTAINER ID IMAGE
                                                 COMMAND CREATED STATUS
                                                                                                              PORTS
                                                                                                                                  NAMES
fabioizidio@math:~/davison/10$ docker image ls
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.so
ck: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect
: permission denied
fabioizidio@math:~/davison/10$ sudo docker image ls
REPOSITORY
                                                                                                                SIZE
mysql-image
                                               bbf6571db497
fabioizidio@math:~/davison/10$
```

```
k: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect:
fabioizidio@math:~/davison/10$ sudo docker image ls
REPOSITORY
                                IMAGE ID CREATED
                                                                            SIZE
                                15270db0a742
                                                    34 minutes ago 516MB
                                bbf6571db497 12 days ago
                                                                           516MB
fabioizidio@math:~/davison/10$ sudo docker exec -i mysql-container mysql -uroot -p#314159Pi < api/db/s
cript.sql
Error: No such container: mysql-container
fabioizidio@math:~/davison/10$ sudo docker run -d --rm --name mysql-container mysql-image
46fb5e25dfbba8012e43d1c02d3af3144b7acbf6f3fafe414cc89eab40b9b477
fabioizidio@math:~/davison/10$
fabioizidio@math:~/davison/10$ sudo docker ps
CONTAINER ID IMAGE
46fb5e25dfbb mysql-image "docker-entrypoint.s..." 4 minutes ago
fabioizidio@math:~/davison/10$ sudo docker exec -i mysql-container mysql -uroot -p#314159Pi < api/db/s
mysql: [Warning] Using a password on the command line interface can be insecure.
fabioizidio@math:~/davison/10$
  produtos
1 row in set (0.00 sec)
mysql> SELECT * FROM produtos;
nysql> 📗
 abioizidio@math:~/davison/10$ sudo docker exec -i mysql-container mysql -uroot
ysql: [Warning] Using a password on the command line interface can be insecure.
abioizidio@math:~/davison/10$ cd api/
abioizidio@math:~/davison/10/api$ npm init
his utility will walk you through creating a package.json file.
t only covers the most common items, and tries to guess sensible defaults.
 ee npm help json` for definitive documentation on these fields nd exactly what they do.
Press<sup>no</sup>C at any time to quit.
backage name: (api) ■
```

```
fabioizidio@math:-/davison/10/api$ npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
Press ^C at any time to quit.
package name: (api)
version: (1.0.0)
description: API para Docker-Node
entry point: (index.js) 

■
and exactly what they do.
Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (api)
description: API para Docker-Node
entry point: (index.js)
test command: teste
keywords: Docker
author: Davison Lennon
   "description": "API para Docker-Node",
  "author": "Davison Lennon",
"license": "ISC"
Is this OK? (yes)
fabioizidio@math:~/davison/10/api$ ■
fabioizidio@math:~/davison/10/api$ npm install --save-dev nodemon
> nodemon@2.0.15 postinstall /home/fabioizidio/davison/10/api/node modules/nodemon
> node bin/postinstall || exit 0
 > https://opencollective.com/nodemon/donate
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.2 (node modules/chokidar/node modules/fs
events):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"d
arwin", arch": any"} (current: {"os": linux", arch": x64"})
npm WARN api@1.0.0 No repository field.
```

```
fabioizidio@math:~/davison/10/api$ npm install --save express mysql

npm WARN api@1.0.0 No repository field.

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules/fsevents):

npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"d arwin","arch":"any"} (current: {"os":"linux","arch":"x64"})

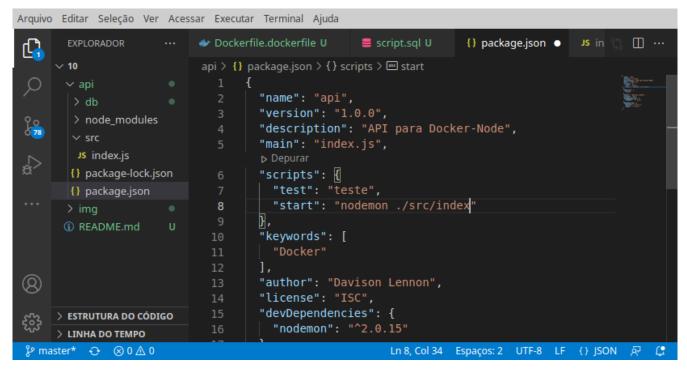
+ express@4.17.1

+ mysql@2.18.1

added 65 packages from 48 contributors and audited 182 packages in 50.447s

15 packages are looking for funding

run `npm fund` for details
```



```
fabioizidio@math: ~/davison... 📮 fabioizidio@math: ~/davison... 🌂 🔸 index.js - 10 - Visual Studio
                                                                                                                                   🌦 WD: E cpu mem 1:23 🌃 🔔 🐠 🔁 📢 14 dez, 15:14
                                                                                                                                      fabioizidio@math:~$ docker inspect mysql-contai
ner | grep "IPAddress"
                                                                                                                                      "SecondaryIPAddresses": null,
"IPAddress": "<mark>I72.17.0.2</mark>",
"IPAddress": "172.17.0.2",

**Fabioizidio@math:-$ ^C

■ script.sql U 
{} package.ison 
■ JS index.is 4 
■
   d,
         √ 10
                                 api > src > JS index.is > [0] connection
                                                                                                                                      rabioizzidio@math:-5 °C
fabioizidio@math:-5 cd davison/10/api/
fabioizidio@math:-/davison/10/api$ tree -ll .
tree: Invalid level, must be greater than 0 .
fabioizidio@math:-/davison/10/api$ tree -L 1
           > node modules
   Ç<sub>0</sub>
                                            host: '172.17.0.2',
user: 'root',
                                            password: '#314159Pi',
database: 'teste'
                                                                                                                                      directories, 2 files
fabioizidio@math:~/davison/10/api$
                                        app.get("/produtos", function (req, res) {
    connection.query("SELECT * FROM produtos;", function (error, results) {
    if (error) { throw error; };
                                                  res.send(results.map(item => ({nome: item.nome, preco: item.preco})));
                                             console.log("Ouvindo na porta 9001");
  > ESTRUTURA DO CÓDIGO
> LINHA DO TEMPO
                                                                 Ln 7, Col 22 (10 selecionado) Espaços: 4 UTF-8 LF {} JavaScript 🔊 🚨
 15 packages are looking for funding run `npm fund` for details
 fabioizidio@math:~/davison/10$ sudo docker build -t node-image -f api/Dockerfile.dockerfile .
[sudo] senha para fabioizidio:
10-slim: Pulling from library/node
62deabe7a6db: Pull complete
f698164f6049: Extracting 4.173kB/4.173kB
bc29352cb629: Download complete
85e84b4c858f: Download complete
ac72e4359589: Download complete
 fabioizidio@math:~/davison/10$ docker image ls
REPOSITORY
                                                                                                             SIZE
                                           15270db0a742
                                                                       4 hours ago
                                                                                                             516MB
                                           bbf6571db497
                                                                                                             516MB
                                                                       12 days ago
                         10-slim
                                                                      8 months ago
                                                                                                             134MB
node
fabioizidio@math:~/davison/10$
                                                          About a minute ago
                                                         4 hours ago
                                   IMAGE ID
                                                          12 days ago
fabioizidio@math:~/davison/10$
```

```
Successfully tagged node-image:latest

fabioizidio@math:~/davison/10$ sudo docker run -d -v $(pwd)/api:/home/node/app -p 9001:9001 --rm --name node-container node-i
mage
29ebf2c198dc5fbea3bb2672af86b33218253d3b890bdaa6e4ace20ad8425e89

fabioizidio@math:~/davison/10$ sudo docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

NAMES

29ebf2c198dc node-image "docker-entrypoint.s..." 4 seconds ago Up 1 second 0.0.0.0:9001->9001/tcp, :::9001->9001/tcp
node-container

37c99f3d22bc mysql-image "docker-entrypoint.s..." 2 hours ago Up 2 hours 3306/tcp, 33060/tcp
mysql-container

fabioizidio@math:~/davison/10$
```