Maria Gabriely da Silva Freitas

- **Criação mysql-image**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker build -t mysql-image -f api/db/Dockerfile .
[+] Building 23.9s (5/5) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 31B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/mysql:latest
 => CACHED [1/1] FROM docker.io/library/mysql@sha256:ff9a288d1ecf4397967989b5d1ec269f7d9042a46fc8bc2c3ae35458c1a26727
 => exporting to image
 => => exporting layers
 => => writing image sha256:7af54c24525c735fb8cdf02073574973e92988ce8d1eefad7777d2638647c98c
 => => naming to docker.io/library/mysql-image

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
```

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker image ls
REPOSITORY      TAG       IMAGE ID        CREATED        SIZE
mysql-image     latest    7af54c24525c    11 days ago    516MB
```

- **Criação mysql-container**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker run -d --rm --name mysql-container -e MYSQL_ROOT_PASSWORD=mariagabriely1 mysql-image
f9434beb152e966b6e89882efa19e5cf6480ad246bb90dc2f3709a0619019f6a

C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker container ps
CONTAINER ID   IMAGE         COMMAND               CREATED          STATUS         PORTS                    NAMES
f9434beb152e   mysql-image   "docker-entrypoint.s…"  10 seconds ago   Up 6 seconds   3306/tcp, 33060/tcp      mysql-container
```

- **Execução dos comandos do Script.sql**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker exec -i mysql-container mysql -uroot -pmaria
gabriely1 <api/db/Script.sql
mysql: [Warning] Using a password on the command line interface can be insecure.
```

- **Acesso ao banco de dados testedocker**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker exec -it mysql-container /bin/bash
root@ac31c602ea19:/# mysql -uroot -pmariagabriely1
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.27 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
mysql> use testedocker;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from products;
+----+----------------+---------+
| id | nome           | valor   |
+----+----------------+---------+
|  1 | CURSO Front-end | 2500.00 |
|  2 | CURSO JS        |  900.00 |
+----+----------------+---------+
2 rows in set (0.00 sec)
```

- **Criação mysql-volume**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker volume create mysql-volume
mysql-volume
```

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker container run --name mysql-container -v mysq
l-volume:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=mariagabriely1 mysql-image
```

- **npm**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao\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.

See `npm help json` for definitive documentation on these fields
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) docker-intro-api
version: (1.0.0)
description: aplicação docker
entry point: (index.js)
test command: test
git repository:
keywords: Docker
author: Maria Gabriely
license: (ISC)
```

```
About to write to C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao\api\package.json:

{
  "name": "docker-intro-api",
  "version": "1.0.0",
  "description": "aplicação docker",
  "main": "index.js",
  "scripts": {
    "test": "test"
  },
  "keywords": [
    "Docker"
  ],
  "author": "Maria Gabriely",
  "license": "ISC"
}


Is this OK? (yes) yes

C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao\api>npm install --save-dev nodemon

> nodemon@2.0.15 postinstall C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao\api\node_modules\nodemon
> node bin/postinstall || exit 0
```

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao\api>npm install --save express mysql
npm WARN docker-intro-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":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})

+ express@4.17.1
+ mysql@2.18.1
added 65 packages from 48 contributors and audited 182 packages in 29.591s

15 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

- **Criação node-image**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker image ls
REPOSITORY        TAG        IMAGE ID        CREATED              SIZE
node-image        latest     feec2dc812b9    About a minute ago   134MB
mysql-image       latest     8127f05d222a    12 days ago          516MB
```

- **criação node-volume**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker volume create node-volume
node-volume
```

- **criação do node-container e sua junção com o volume node-volume**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker container run --name node-container -v node-volume:/home/node/
app -p 9001:9001 node-image
npm ERR! code ENOENT
npm ERR! syscall open
npm ERR! path /home/node/app/package.json
npm ERR! errno -2
npm ERR! enoent ENOENT: no such file or directory, open '/home/node/app/package.json'
npm ERR! enoent This is related to npm not being able to find a file.
npm ERR! enoent

npm ERR! A complete log of this run can be found in:
npm ERR!     /root/.npm/_logs/2021-12-14T22_55_39_063Z-debug.log
```

- **Criação php-image**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao\website>docker build -t php-image -f Dockerfile .
[+] Building 447.1s (6/6) FINISHED
 => [internal] load build definition from Dockerfile
```

- **Criação php-volume**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker volume create php-volume
php-volume
```

- **Criação php-container e sua junção com o volume php-volume**

```
C:\Users\Gaby\OneDrive\Documentos\VsCode\Docker\docker-introducao>docker container run --name php-container -v php-vo
lume:/var/www/html -p 8888:80 php-image
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'S
```

- **Imagens criadas**

NAME ↑	
mysql-image	IN USE
node-image	IN USE
php-image	IN USE

- **Containers criados**

node-container node-image
RUNNING   PORT: 9001

mysql-container mysql-image
RUNNING

php-container php-image
RUNNING   PORT: 8888

- **Volumes criados**

mysql-volume	IN USE	1 min
node-volume	IN USE	abou
php-volume	IN USE	8 mir