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SOR2 - ATV 10

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1°)

```
[rafael123@rafa docker-introducao]$ cd ./api
[rafael123@rafa api]$ ls
db  Dockerfile  package.json  package-lock.json  src
[rafael123@rafa api]$ npm install
npm WARN old lockfile
npm WARN old lockfile The package-lock.json file was created with an old version of npm,
npm WARN old lockfile so supplemental metadata must be fetched from the registry.
npm WARN old lockfile
npm WARN old lockfile This is a one-time fix-up, please be patient...
npm WARN old lockfile
npm WARN deprecated urix@0.1.0: Please see https://github.com/lydell/urix#deprecated
npm WARN deprecated set-value@2.0.0: Critical bug fixed in v3.0.1, please upgrade to the latest version.
npm WARN deprecated mixin-deep@1.3.1: Critical bug fixed in v2.0.1, please upgrade to the latest version.
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated ini@1.3.5: Please update to ini >=1.3.6 to avoid a prototype pollution issue
npm WARN deprecated set-value@0.4.3: Critical bug fixed in v3.0.1, please upgrade to the latest version.
npm WARN deprecated debug@3.2.6: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.j
s environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/issues/797)
npm WARN deprecated chokidar@2.1.5: Chokidar 2 will break on node v14+. Upgrade to chokidar 3 with 15x less dependencies.

added 274 packages, and audited 275 packages in 34s

17 vulnerabilities (7 moderate, 7 high, 3 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
npm notice
npm notice New minor version of npm available! 8.1.3 -> 8.3.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.3.0
npm notice Run npm install -g npm@8.3.0 to update!
npm notice
```

2°)

```
[rafael123@rafa docker-introducao]$ sudo docker build -t mysql-image -f api/db/Dockerfile .
[sudo] senha para rafael123:
Sending build context to Docker daemon  12.24MB
Step 1/2 : FROM mysql
 ---> bbf6571db497
Step 2/2 : ENV MYSQL_ROOT_PASSWORD
 ---> Using cache
 ---> 2eeb45c5db82
Successfully built 2eeb45c5db82
Successfully tagged mysql-image:latest
[rafael123@rafa docker-introducao]$ sudo docker build -t node-image -f api/Dockerfile .
Sending build context to Docker daemon  12.24MB
Step 1/3 : FROM node:10-slim
10-slim: Pulling from library/node
62deabe7a6db: Pull complete
f698164f6049: Pull complete
bc29352cb629: Pull complete
85e84b4c858f: Pull complete
ac72e4359589: Pull complete
Digest: sha256:88932859e3d022d79161b99628c4c2c50e836437455e2d1b1a008d98367b10d6
Status: Downloaded newer image for node:10-slim
 ---> 6fbcbbb5c603
Step 2/3 : WORKDIR /home/node/app
 ---> Running in 1ef9f57f8e1f
Removing intermediate container 1ef9f57f8e1f
 ---> 5a3364325eb8
Step 3/3 : CMD npm start
 ---> Running in d09cf1d5616c
Removing intermediate container d09cf1d5616c
 ---> a1e7b5b91c9e
Successfully built a1e7b5b91c9e
```

3°)

```
[rafael123@rafa docker-introducao]$ sudo docker build -t php-image -f website/Dockerfile .
Sending build context to Docker daemon  12.24MB
Step 1/2 : FROM php:7.2-apache
7.2-apache: Pulling from library/php
6ec7b7d162b2: Pull complete
db606474d60c: Pull complete
afb30f0cd8e0: Pull complete
3bb2e8051594: Pull complete
4c761b44e2cc: Pull complete
c2199db96575: Pull complete
1b9a9381eea8: Pull complete
fd07bbc59d34: Pull complete
72b73ab27698: Pull complete
983308f4f0d6: Pull complete
6c13f026e6da: Pull complete
e5e6cd163689: Pull complete
5c5516e56582: Pull complete
154729f6ba86: Pull complete
Digest: sha256:4dc0f0115acf8c2f0df69295ae822e49f5ad5fe849725847f15aa0e5802b55f8
Status: Downloaded newer image for php:7.2-apache
 ---> c61d277263e1
Step 2/2 : WORKDIR /var/www/html
 ---> Running in 5c584401b9bf
Removing intermediate container 5c584401b9bf
 ---> 5f904aa0662e
Successfully built 5f904aa0662e
Successfully tagged php-image:latest
```

4°)

```
[rafael123@rafa docker-introducao]$ sudo docker exec -i mysql-container mysql -uroot -prafaelpin    <api/db/script.sql
[sudo] senha para rafael123:
mysql: [Warning] Using a password on the command line interface can be insecure.
[rafael123@rafa docker-introducao]$ sudo docker exec -it mysql-container mysql -uroot -prafaelpin    <api/db/script.sql
the input device is not a TTY
[rafael123@rafa docker-introducao]$ sudo docker exec -it mysql-container /bin/bash
root@9c7cf0fdf705:/# mysql -uroot -prafaelpin
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 14
Server version: 8.0.27 MySQL Community Server - GPL

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owners.

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

mysql> use rafaelpin
ERROR 1049 (42000): Unknown database 'rafaelpin'
mysql> use rafaelpin;
ERROR 1049 (42000): Unknown database 'rafaelpin'
mysql> use programadorabordo;
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 | name      | price   |
+----+-----------+---------+
|  1 | Exemplo 1 | 2500.00 |
|  2 | Exemplo 2 |  900.00 |
+----+-----------+---------+
2 rows in set (0.01 sec)
```

5°)

```
3bb2e8051594: Pull complete
4c761b44e2cc: Pull complete
c2199db96575: Pull complete
1b9a9381eea8: Pull complete
fd07bbc59d34: Pull complete
72b73ab27698: Pull complete
983308f4f0d6: Pull complete
6c13f026e6da: Pull complete
e5e6cd163689: Pull complete
5c5516e56582: Pull complete
154729f6ba86: Pull complete
Digest: sha256:4dc0f0115acf8c2f0df69295ae822e49f5ad5fe849725847f15aa0e5802b55f8
Status: Downloaded newer image for php:7.2-apache
 ---> c61d277263e1
Step 2/2 : WORKDIR /var/www/html
 ---> Running in 5c584401b9bf
Removing intermediate container 5c584401b9bf
 ---> 5f904aa0662e
Successfully built 5f904aa0662e
Successfully tagged php-image:latest
[rafael123@rafa docker-introducao]$
[rafael123@rafa docker-introducao]$ docker run -d --rm --name mysql-container mysql-image
docker: Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2
Frun%2Fdocker.sock/v1.24/containers/create?name=mysql-container": dial unix /var/run/docker.sock: connect: permission denied.
See 'docker run --help'.
[rafael123@rafa docker-introducao]$ sudo docker run -d --rm --name mysql-container mysql-image
[sudo] senha para rafael123:
9c7cf0fdf705dd55e03dbf47a081350bb51eabf97d5fca618e4123e4e3148a87
[rafael123@rafa docker-introducao]$ docker ps
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdo
cker.sock/v1.24/containers/json": dial unix /var/run/docker.sock: connect: permission denied
[rafael123@rafa docker-introducao]$ sudo docker ps
CONTAINER ID   IMAGE         COMMAND            CREATED         STATUS          PORTS                   NAMES
9c7cf0fdf705   mysql-image   "docker-entrypoint.s…"  3 minutes ago   Up 3 minutes    3306/tcp, 33060/tcp     mysql-container
[rafael123@rafa docker-introducao]$
```

6°)

```
[rafael123@rafa api]$ npm install --save-dev nodemon
npm WARN deprecated chokidar@2.1.8: Chokidar 2 will break on node v14+. Upgrade to chokidar 3 with 15x less dependencies.

added 32 packages, removed 25 packages, changed 23 packages, and audited 282 packages in 12s

11 vulnerabilities (6 moderate, 5 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
[rafael123@rafa api]$
[rafael123@rafa api]$ npm install --save express mysql

added 3 packages, changed 28 packages, and audited 285 packages in 8s

11 vulnerabilities (6 moderate, 5 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
[rafael123@rafa api]$ docker inspect mysql-container
[]
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdo
cker.sock/v1.24/containers/mysql-container/json": dial unix /var/run/docker.sock: connect: permission denied
[rafael123@rafa api]$ sudo docker inspect mysql-container
[sudo] senha para rafael123:
[
    {
        "Id": "0320a40b42984d27e225bb1bf8f04e9164dd9fc53fbeaec235835e3c32212355",
```

7°)

```
[rafael123@rafa docker-introducao]$ sudo docker image ls
REPOSITORY      TAG         IMAGE ID        CREATED           SIZE
php-image       latest      5f904aa0662e    About an hour ago  410MB
node-image      latest      a1e7b5b91c9e    About an hour ago  134MB
mysql-image     latest      2eeb45c5db82    About an hour ago  516MB
mysql           latest      bbf6571db497    11 days ago        516MB
node            10-slim     6fbcbbb5c603    8 months ago       134MB
php             7.2-apache  c61d277263e1    12 months ago      410MB
[rafael123@rafa docker-introducao]$
[rafael123@rafa docker-introducao]$ sudo docker run -d -v $(pwd)/api:/home/node/app -p 9001:9001 --link mysql-container --rm --name no
de-container node-image
3551464f1b1eaa8af2860a42194b7a1e881cafcdfd196f402df9227917635f0a
[rafael123@rafa docker-introducao]$ sudo docker ps
CONTAINER ID    IMAGE         COMMAND             CREATED           STATUS          PORTS
NAMES
3551464f1b1e    node-image    "docker-entrypoint.s…"  About a minute ago  Up 58 seconds   0.0.0.0:9001->9001/tcp, :::9001->9001/tcp
node-container
0320a40b4298    mysql-image   "docker-entrypoint.s…"  22 minutes ago      Up 22 minutes   3306/tcp, 33060/tcp
mysql-container
[rafael123@rafa docker-introducao]$ sudo docker stop node-container
node-container
[rafael123@rafa docker-introducao]$ sudo docker run -d -v $(pwd)/api:/home/node/app -p 9001:9001 --link mysql-container --rm --name no
de-container node-image
c3eeafe6ec0f5a06e144fe0da4b22af14a70db1890b667a03f5fd5be3cbf74bb
[rafael123@rafa docker-introducao]$ sudo docker build -t php-image -f website/Dockerfile .
Sending build context to Docker daemon  217.8MB
Step 1/2 : FROM php:7.2-apache
 ---> c61d277263e1
Step 2/2 : WORKDIR /var/www/html
 ---> Using cache
 ---> 5f904aa0662e
Successfully built 5f904aa0662e
Successfully tagged php-image:latest
[rafael123@rafa docker-introducao]$ sudo docker run -d -v "$(pwd)/website":/var/www/html -p 8888:80 --link node-container --rm --name
php-container php-image
653a004b74bbda73201857239d90ca303cb62971e5373cdfd74c779a1efdbe64
[rafael123@rafa docker-introducao]$
```