

Atividade 07 - Docker Compose

Clonando repositório

```
tiago@notebook:~/estudos$ git clone https://github.com/programadorabordo/docker-introducao.git
Cloning into 'docker-introducao'...
remote: Enumerating objects: 45, done.
remote: Total 45 (delta 0), reused 0 (delta 0), pack-reused 45
Receiving objects: 100% (45/45), 456.52 KiB | 1.72 MiB/s, done.
Resolving deltas: 100% (14/14), done.
tiago@notebook:~/estudos$ cd docker-introducao/
```

Instalando gerenciador de pacotes npm

```
tiago@notabook : ~/esados/docker-introducao$ cd api
tiago@notabook : ~/esados/docker-introducao/api$ npm install
Command 'npm' not found, but can be installed with:
sudo apt install npm
tiago@notabook : ~/esados/docker-introducao/api$ sudo apt install npm
[sudo] password for tiago :
Sorry, try again.
[sudo] password for tiago :
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
libltdl7
Use 'sudo apt autoremove' to remove it.

The following additional packages will be installed:
  brotli-essential dpkg-dev fakeroot gyp javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libc-ares2 libfakeroot libjs-highlight.js libjs-jquery libjs-jquery-ui libjs-lodash libjs-moment libjs-polyfill libjs-sass libjs-typedarray-to-buffer libnode-dev libnode72 libssl-dev lto-disabled-list node-abbrev node-agent-base node-ajv node-ansi node-ansi-regex node-ansi-styles node-ansicolor node-asap node-asn1 node-assert-plus node-asynckit node-aws-sign2 node-aws4 node-balanced-match node-brcrypt-pbkdf node-brace-expansion node-buffers node-bunzip2 node-cacheable node-caseless node-color-name node-colors node-columnify node-combined-stream node-concat-map node-console-control-strings node-copy-concurrently node-core-util-is node-dashdash node-debug node-
```

Instalando docker-compose

```
tiago@notebook:~/estudos$ sudo apt install docker-compose
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  liblvm2
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  python3-attr python3-cached-property python3-distutils python3-docker python3-dockerpty python3-docopt python3-importlib-metadata
  python3-texttable python3-websocket python3-zipp
Suggested packages:
  python-attr-doc python-jsonschema-doc python-setuptools-doc
The following NEW packages will be installed:
  docker-compose python3-attr python3-cached-property python3-distutils python3-docker python3-dockerpty python3-docopt python3-im
  python3-setuptools python3-texttable python3-websocket python3-zipp
0 upgraded, 16 newly installed, 0 to remove and 2 not upgraded.
Need to get 1.054 kB of archives.
```

Escrevendo documento yml do docker-compose com as configurações de run e build de cada contêiner para as imagens desejadas

The screenshot shows the VS Code interface with the Explorer view on the left and the Editor view on the right. The Explorer view displays the file structure of the project, including the `docker-compose.yml` file, which is currently selected. The Editor view shows the content of `docker-compose.yml`, which defines a multi-container application with three services: `db`, `api`, and `web`.

```
version: "3.7"
services:
  db:
    image: mysql
    command: --default-authentication-plugin=mysql_native_password
    container_name: mysql-container
    environment:
      MYSQL_ROOT_PASSWORD: programadorabordo
    volumes:
      - .api/db/data:/var/lib/mysql
    restart: always
  api:
    build: "./api"
    container_name: node-container
    restart: always
    volumes:
      - ./api:/home/node
    ports:
      - "9001:9001"
    depends_on:
      - db
  web:
    image: "php:7.2-apache"
    container_name: php-container
    restart: always
    volumes:
      - ./website:/var/www/html
    ports:
      - "8888:80"
    depends_on:
      - db
      - api
```

Iniciando containers pelo docker compose

```
tiago@notebook:~/estudos/docker-introducao$ docker-compose up -d
ERROR: Couldn't connect to Docker daemon at http+docker://localhost - is it running?

If it's at a non-standard location, specify the URL with the DOCKER_HOST environment variable.
tiago@notebook:~/estudos/docker-introducao$ sudo ./webodm.sh start
[sudo] password for tiago:
sudo: ./webodm.sh: command not found
tiago@notebook:~/estudos/docker-introducao$ sudo usermod -aG docker ${USER}
tiago@notebook:~/estudos/docker-introducao$ docker-compose up -d
ERROR: Couldn't connect to Docker daemon at http+docker://localhost - is it running?

If it's at a non-standard location, specify the URL with the DOCKER_HOST environment variable.
tiago@notebook:~/estudos/docker-introducao$ su - ${USER}
Password:
tiago@notebook:~$ cd estudos
tiago@notebook:~/estudos$ cd docker-introducao/
tiago@notebook:~/estudos/docker-introducao$ docker-compose up -d
Creating network "docker-introducao_default" with the default driver
Pulling db (mysql:...)...
latest: Pulling from library/mysql
824b15f81d65: Pull complete
c559dd1913db: Pull complete
e201c19614e6: Pull complete
f4247e8f6125: Pull complete
dc9fef8c9fb5: Pull complete
```

Populando banco de dados

```
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
6c5516e56582: Pull complete
154729f6ba86: Pull complete
Digest: sha256:4dc0f0115acf8c2f0df69295ae822e49f5ad5fe849725847f15aa0e5802b55f8
Status: Downloaded newer image for php:7.2-apache
Creating mysql-container ... done
Creating node-container ... done
Creating php-container ... done
tiago@notebook:~/estudos/docker-introducao$ docker exec -i mysql-container mysql -uroot -pprogramadorabordo < api/db/script.sql
mysql: [Warning] Using a password on the command line interface can be insecure.
```

Parando containers

```
tiago@notebook:~/estudos/docker-introducao$ docker-compose stop
Stopping php-container ... done
Stopping node-container ... done
Stopping mysql-container ... done
```