



INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA DO CEARÁ
IFCE CAMPUS FORTALEZA
TELEMÁTICA

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Disciplina: Administração de serviços de rede (01.302.25)

Professor: Ricardo Duarte Taveira

Aluno: Lucas Muniz Alves

Atividade 06- Etapa 02

Implementar a atividade do vídeo abaixo. Printar o passo a passo e demonstrar a execução da solução apresentada.

Clonando repositório:

```
/tmp/dokcerCompose git clone https://github.com/ayrtonteshima/docker-introducao.git
Cloning into 'docker-introducao'...
remote: Enumerating objects: 45, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 45 (delta 3), reused 3 (delta 3), pack-reused 39 (from 1)
Receiving objects: 100% (45/45), 456.52 KiB | 1.72 MiB/s, done.
Resolving deltas: 100% (14/14), done.
/tmp/dokcerCompose cd docker-introducao
/tmp/dokcerCompose/docker-introducao P master
```

Instalando Node.

```
/tmp/dokcerCompose/docker-introducao/api P master npm install
zsh: correct 'npm' to 'nm' [nyae]? n
(node:3559) ExperimentalWarning: CommonJS module /usr/lib/node_modules/npm/node_modules/debug/src/node.js is loading ES Module /usr/lib/node_modules/npm/node_modules/supports-color/index.js using require().
Support for loading ES Module in require() is an experimental feature and might change at any time
(Use 'node --trace-warnings ...' to show where the warning was created)
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 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 resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm warn deprecated source-map-url@0.4.0: See https://github.com/lydell/source-map-url#deprecated
npm warn deprecated source-map-resolve@0.5.2: See https://github.com/lydell/source-map-resolve#deprecated
npm warn deprecated mixin-deep@1.3.1: Critical bug fixed in v2.0.1, please upgrade to the latest version.
npm warn deprecated ini@1.3.5: Please update to ini >=1.3.6 to avoid a prototype pollution issue
npm warn deprecated is-accessor-descriptor@0.1.6: Please upgrade to v0.1.7
npm warn deprecated is-data-descriptor@0.1.4: Please upgrade to v0.1.5
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.js environment
. It is recommended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/issues/797)
npm warn deprecated set-value@0.4.3: Critical bug fixed in v3.0.1, please upgrade to the latest version.
npm warn deprecated is-accessor-descriptor@1.0.0: Please upgrade to v1.0.1
npm warn deprecated is-data-descriptor@1.0.0: Please upgrade to v1.0.1
npm warn deprecated is-accessor-descriptor@1.0.0: Please upgrade to v1.0.1
npm warn deprecated is-accessor-descriptor@1.0.0: Please upgrade to v1.0.1
npm warn deprecated is-accessor-descriptor@1.0.0: Please upgrade to v1.0.1
npm warn deprecated is-data-descriptor@1.0.0: Please upgrade to v1.0.1
npm warn deprecated is-data-descriptor@1.0.0: Please upgrade to v1.0.1
npm warn deprecated is-data-descriptor@1.0.0: Please upgrade to v1.0.1
added 274 packages, and audited 275 packages in 7s
34 vulnerabilities (4 low, 6 moderate, 20 high, 4 critical)
To address issues that do not require attention, run:
```

Criando as Imagens dockerfile.

```
/tmp/dokcerCompose/docker-introducao P master !2 docker build -t mysql-image -f api/db/Dockerfile .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 9.335MB
Step 1/2 : FROM mysql
latest: Pulling from library/mysql
2c0a233485c3: Pull complete
cb5a6a8519b2: Pull complete
570d30cf82c5: Pull complete
a841bff36f3c: Pull complete
80ba30c57782: Pull complete
5e49e1f26961: Pull complete
ced670fc7f1c: Pull complete
0b9dc7ad7f03: Pull complete
cd0d5df9937b: Pull complete
1f87d67b89c6: Pull complete
Digest: sha256:0255b469f0135a0236d672d60e3154ae2f4538b146744966d96440318cc822c6
Status: Downloaded newer image for mysql:latest
--> 56a8c14e1404
Step 2/2 : ENV MYSQL_ROOT_PASSWORD programadorabordo
--> Running in 20972ca79ae5
--> Removed intermediate container 20972ca79ae5
--> e98ab368dfb6
Successfully built e98ab368dfb6
Successfully tagged mysql-image:latest
/tmp/d/docker-introducao P master !2 ?2 docker build -t node-image -f api/Dockerfile .
30s
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 9.335MB
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 5bcdb9a466e2
--> Removed intermediate container 5bcdb9a466e2
--> 17046b337adf
Step 3/3 : CMD npm start
--> Running in b0513359b3fa
--> Removed intermediate container b0513359b3fa
--> 72577d22afdd
Successfully built 72577d22afdd
Successfully tagged node-image:latest
/tmp/d/docker-introducao P master !2 ?2 13s
```

```
/tmp/d/docker-introducao P master !2 ?2 docker build -t php-image -f website/Dockerfile .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 9.335MB
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 1575714416c5
--> Removed intermediate container 1575714416c5
--> 1307b657985f
Successfully built 1307b657985f
Successfully tagged php-image:latest
/tmp/d/docker-introducao P master !2 ?2
```

Configurando Docker-compose.yml

```
docker-compose.yml
1 version: "3.7"
2 services:
3   db:
4     image: mysql
5     container_image: mysql-container
6     environment:
7       MYSQL_ROOT_PASSWORD: proramadorabordo
8     volumes:
9       - ./api/db/data:/var/lib/mysql
10    restart: always
11  api:
12    build: "./api"
13    container_name: node-container
14    restart: always
15    volumes:
16      - ./api:/home/node/app
17    ports:
18      - "9001:9001"
19    depends_on:
20      - db
21  web:
22    image: "php:7.2-apache"
23    container_name: php-container
24    restart: always
25    volumes:
26      - ./website:/var/www/html
27    ports:
28      - "8888:80"
29    depends_on:
30      - db
31      - api
32
```

Subindo Containers com docker-compose up -d

```
/tmp/dokcerCompose/docker-introducao P master !2 ?1 docker-compose up -d
WARN[0000] /tmp/dokcerCompose/docker-introducao/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 0/0
[+] Running 0/1 Building
[+] Building 2.0s (7/7) FINISHED
=> [api internal] load build definition from Dockerfile
=> => transferring dockerfile: 91B
=> [api internal] load metadata for docker.io/library/node:10-slim
=> [api internal] load .dockerignore
=> => transferring context: 2B
=> [api 1/2] FROM docker.io/library/node:10-slim
=> [api 2/2] WORKDIR /home/node/app
=> [api] exporting to image
=> => exporting layers
=> => writing image sha256:802ab8a1fb3b09253bfe7864575f25f312301c168e6c3dd7ca7686741304b327
[+] Running 5/5o docker.io/library/docker-introducao-api
Service api Built
Network docker-introducao_default Created
Container mysql-container Started
Container node-container Started
Container php-container Started
4s
```

Por fim verificando Containers em Execução.

```
/tmp/dokcerCompose/docker-introducao P master !2 ?1 docker ps
CONTAINER ID   IMAGE               COMMAND                  CREATED        STATUS              PORTS
fa7a106ce618   php:7.2-apache     "docker-php-entrypoi..." 2 minutes ago  Up About a minute  0.0.0.0:8888->80/tcp, [::]:8888->80/
tcp            php-container
0e162f166c47   docker-introducao-api "docker-entrypoint.s..." 2 minutes ago  Up About a minute  0.0.0.0:9001->9001/tcp, [::]:9001->900
1/tcp         node-container
1bd5a3f7bdff   mysql              "docker-entrypoint.s..." 2 minutes ago  Restarting (1) 33 seconds ago
mysql-container
```