



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

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Disciplina: **Administração de serviços de rede** (01.302.25)

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Avaliação 8 – Dockerfile e Docker CLI

Crie uma configuração usando o Docker compose. Use no mínimo dois serviços. Evidencie o arquivo docker-compose e o *print* da execução dos contêineres.

Conteúdo do arquivo compose.yml:

```
version: "3.8"
services:
  app:
    image: node:18-alpine
    command: sh -c "yarn install && yarn run dev"
    ports:
      - target: 3000
        host_ip: 127.0.0.1
        published: "3000"
        protocol: tcp
        mode: host
    working_dir: /app
    volumes:
      - type: bind
        source: ./
        target: /app
    environment:
      MYSQL_HOST: mysql
      MYSQL_USER: root
      MYSQL_PASSWORD: secret
      MYSQL_DB: todos

  mysql:
    image: mysql:8.0
    volumes:
      - type: volume
```

```
        source: todo-mysql-data
        target: /var/lib/mysql
    environment:
        MYSQL_ROOT_PASSWORD: secret
        MYSQL_DATABASE: todos
volumes:
    todo-mysql-data:
```

Arquivo .sh para a execução da atividade:

```
cat > compose.yml << EOL
version: "3.8"
services:
    app:
        image: node:18-alpine
        command: sh -c "yarn install && yarn run dev"
        ports:
            - target: 3000
              host_ip: 127.0.0.1
              published: "3000"
              protocol: tcp
              mode: host
        working_dir: /app
        volumes:
            - type: bind
              source: ./
              target: /app
        environment:
            MYSQL_HOST: mysql
            MYSQL_USER: root
            MYSQL_PASSWORD: secret
            MYSQL_DB: todos

    mysql:
        image: mysql:8.0
        volumes:
            - type: volume
              source: todo-mysql-data
              target: /var/lib/mysql
        environment:
            MYSQL_ROOT_PASSWORD: secret
            MYSQL_DATABASE: todos
volumes:
    todo-mysql-data:
EOL
sudo docker compose up --detach && sudo docker compose ps
```

```
Docker Playground
labs.play-with-docker.com/p/cm4tstss9otg009degvg#cm4tstss_cm4tu6ao7r5g00c0h2cg

#####
# WARNING!!!!
# This is a sandbox environment. Using personal credentials
# is HIGHLY! discouraged. Any consequences of doing so are
# completely the user's responsibilities.
#
# The PWD team.
#####
[node2] (local) root@192.168.0.7 ~
$
[node2] (local) root@192.168.0.7 ~
$ cat > compose.yml << EOL
version: "3.8"
services:
  app:
    image: node:18-alpine
    command: sh -c "yarn install && yarn run dev"
    ports:
      - target: 3000
        host_ip: 127.0.0.1
        published: "3000"
        protocol: tcp
        mode: host
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    volumes:
      - type: bind
        source: ./
        target: /app
    environment:
      MYSQL_HOST: mysql
      MYSQL_USER: root
      MYSQL_PASSWORD: secret
      MYSQL_DB: todos
  mysql:
    image: mysql:8.0
    volumes:
      - type: volume
        source: todo-mysql-data
        target: /var/lib/mysql
    environment:
      MYSQL_ROOT_PASSWORD: secret
      MYSQL_DATABASE: todos
volumes:
  todo-mysql-data:
EOL
sudo docker compose up --detach && sudo docker compose ps

[+] Running 17/17
✓ app 4 layers [#####] 0B/0B Pulled 7.4s
✓ 661ff4d9561e Pull complete 0.3s
✓ 0f158788f409 Pull complete 1.1s
✓ f028dff98271 Pull complete 0.1s
✓ 18f25c33705d Pull complete 0.3s
✓ mysql 11 layers [#####] 0B/0B Pulled 30.5s
✓ bce031bc522d Pull complete 1.4s
✓ 9d95fc125cf8 Pull complete 0.4s
✓ 22412d6d690f Pull complete 0.5s
✓ 79d453aad0eb Pull complete 0.7s
✓ 1b6cca7a391d Pull complete 0.9s
✓ f9e7ae943297 Pull complete 1.0s
✓ af3e28b094a2 Pull complete 2.6s
✓ db237bdcf1c0 Pull complete 1.1s
✓ 4b3c3f5cb4f4 Pull complete 2.8s
✓ 394dbd7e05eb Pull complete 1.5s
✓ 18a167e598b0 Pull complete 1.6s
[+] Building 0.0s (0/0) docker:default
[+] Running 4/4
✓ Network root_default Created 0.1s
✓ Volume "root_todo-mysql-data" Created 0.0s
✓ Container root-app-1 Started 0.1s
✓ Container root-mysql-1 Started 0.1s
NAME IMAGE COMMAND SERVICE CREATED STATUS
PORTS
root-app-1 node:18-alpine "docker-entrypoint.s..." app 1 second ago Up Less than a second
127.0.0.1:3000->3000/tcp
root-mysql-1 mysql:8.0 "docker-entrypoint.s..." mysql 1 second ago Up Less than a second
3306/tcp, 33060/tcp
[node2] (local) root@192.168.0.7 ~
$
```

Figura 1. Execução da atividade no [Play with Docker](#).