



**INSTITUTO  
FEDERAL**  
Ceará

**ATIVIDADE 10**

**OTTO TEIXEIRA RIBEIRO BRAGA E MELLO**

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**S4 DE TELEMÁTICA**

Criando e executando o dockerfile:

```
[node1] (local) root@192.168.0.8 ~
$ vim docker-compose.yml
[node1] (local) root@192.168.0.8 ~
$ mkdir mosquito
[node1] (local) root@192.168.0.8 ~
$ cd mosquito
[node1] (local) root@192.168.0.8 ~/mosquitto
$ mkdir config
[node1] (local) root@192.168.0.8 ~/mosquitto
$ cd config
[node1] (local) root@192.168.0.8 ~/mosquitto/config
$ vim mosquitto.conf
[node1] (local) root@192.168.0.8 ~/mosquitto/config
$ ls
[node1] (local) root@192.168.0.8 ~/mosquitto/config
$ vim mosquitto.conf
[node1] (local) root@192.168.0.8 ~/mosquitto/config
$ cd ..
[node1] (local) root@192.168.0.8 ~/mosquitto
$ cd ..
[node1] (local) root@192.168.0.8 ~
$ docker-compose up -d
[+] Running 4/4
✓ mosquito 3 layers [■■■■] 0B/0B Pulled
✓ c926b61bad3b Pull complete
✓ a87e6a8c3b38 Pull complete
✓ 4e2ff55c815a Pull complete
[+] Building 0.0s (0/0)
[+] Running 2/2
✓ Network mosquito Created
✓ Container root-mosquitto-1 Started
[node1] (local) root@192.168.0.8 ~
$
```

Comprovação do funcionamento do container:

```
[node1] (local) root@192.168.0.8 ~
$ docker ps -a
CONTAINER ID   IMAGE               COMMAND                  CREATED        STATUS        PORTS
65fca93a6569   eclipse-mosquitto:2 "/docker-entrypoint..." 2 minutes ago  Up 2 minutes  0.0.0.0:1883->1883/tcp, 0.0.0.0:8883->8883/tcp, 0.0.0.0:9001->9001/tcp
root-mosquitto-1
```

Execução do comando mosquitto\_pub dentro do container:

```
$ docker exec 5f07609e91a0 mosquitto_pub -i mosq_pub1 -t "Test" -m "Message with ID: $i" -d
Client mosq_pub1 sending CONNECT
Client mosq_pub1 received CONNACK (0)
Client mosq_pub1 sending PUBLISH (d0, q0, r0, m1, 'Test', ... (19 bytes))
Client mosq_pub1 sending DISCONNECT
```

Docker compose:

```
1 version: '3.8'
2
3 services:
4   mosquitto:
5     image: eclipse-mosquitto:2
6     ports:
7       - 1883:1883
8       - 8883:8883
9       - 9001:9001
10    volumes:
11      - ./mosquitto/config:/mosquitto/config
12      - ./mosquitto/data:/mosquitto/data
13      - ./mosquitto/log:/mosquitto/log
14    networks:
15      - mosquitto
16 networks:
17   mosquitto:
18     name: mosquitto
19     driver: bridge
~
~
~
```