#### SISTEMAS OPERACIONAIS - 18/11/2020

Profa: Celia Taniwaki

Aluno: Marcelo Vitor Rodrigues Bonora

**ra:** 02201000 **Turma:** Turma

#### Atividade 1 - Containers na Prática

# Criando um container e confinando uma aplicação mysql nele:

sudo docker run -d -p 3306:3306 --name ConteinerBD -e
"MYSQL\_DATABASE=banco1" -e "MYSQL\_ROOT\_PASSWORD=urubu100"
mysq1:5.7

ubuntu@ip-172-31-47-249:-\$ sudo docker run -d -p 3306:3306 --name ConteinerBD -e "MYSQL\_DATABASE=banco1" -e "MYSQL\_R00T\_PASSWORD=urubu1 00" mysql:5.7
docker: Error response from daemon: Conflict. The container name "/ConteinerBD" is already in use by container "7603bdb55942f13b02708da 946b35b6b1fb533b-77dd22cd8293d05d3d19659e6". You have to remove (or rename) that container to be able to reuse that name. See 'docker run -help'.
ubuntu@ip-172-31-47-249:-\$ ■

Vai dar erro por conta que eu já criei esse container

## Exibindo o que há no contêiner:

sudo docker ps

 ubuntu@ip-172-31-47-249:-\$ sudo docker ps
 CONTAINER ID IMAGE COMMAND
 CREATED
 STATUS
 PORTS

 C083db55942 mysql:5.7 mysql:5.7 cp ConteinerBD ubuntu@ip-172-31-47-249:-\$
 "docker-entrypoint.s..."
 2 days ago
 Up 38 minutes
 0.0.0:3306->3306/tcp, 33060/tcp, 33060/tcp

# Exibindo o que há no contêiner e há quanto tempo que ele está sendo executado:

sudo docker ps -a

### Exibindo as estatística do container:

sudo docker stats ConteinerBD

CONTAINER ID PIDS	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O
7603bdb55942 MB 28	ConteinerBD	0.04%	178.3MiB / 978.6MiB	18.21%	6.72kB / 0B	51.2MB / 12.7

# Executando o container que criamos com o mysql:

sudo docker exec -it bfb9d1725221 bash

ubuntu@ip-172-31-47-249:-\$ sudo docker exec 7603bdb55942 bash ubuntu@ip-172-31-47-249:-\$ ■

### Iniciamos o mysgl dentro do container:

```
mysql -u root -p
ubuntu@ip-172-31-47-249:~$ sudo docker exec -it 7603bdb55942 bash
root@7603bdb55942:/# mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.32 MySQL Community Server (GPL)

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

mysql>
```

#### Exibindo todos bancos de dados:

SHOW DATABASES;

#### Saindo do mysql e do container:

```
exit
exit
```

```
mysql> exit
Bye
root@7603bdb55942:/# exit
exit
ubuntu@ip-172-31-47-249:~$
```

### Stopando o serviço:

```
sudo docker stop (ID do Container)
```

```
ubuntu@ip-172-31-47-249:~$ sudo docker stop 7603bdb55942
7603bdb55942
ubuntu@ip-172-31-47-249:~$ ■
```

```
Startando o servico:
```

```
sudo docker start (ID do Container)
```

```
ubuntu@ip-172-31-47-249:~$ sudo docker start 7603bdb55942
7603bdb55942
ubuntu@ip-172-31-47-249:~$ ■
```

# Criando um bd no mysql docker:

```
USE bancol;
```

```
mysql> USE bancol;
Database changed
mysql>
```

```
CREATE TABLE MEDIDAS (
```

id INT AUTO\_INCREMENT PRIMARY KEY,
type VARCHAR(25) NOT NULL,
value DOUBLE(10,2) NOT NULL);

```
mysql> CREATE TABLE MEDIDAS(
    -> id INT AUTO_INCREMENT PRIMARY KEY,
    -> type VARCHAR(25) NOT NULL,
    -> value DOUBLE(10,2) NOT NULL);
Query OK, 0 rows affected (0.03 sec)
mysql>
```

### SHOW TABLES;

```
mysql> SHOW TABLES;

+----+
| Tables_in_bancol |
+----+
| MEDIDAS |
+----+
1 row in set (0.00 sec)

mysql>
```

#### DESCRIBE MEDIDAS;