Rita de Cássia Costa Barbosa 03231044

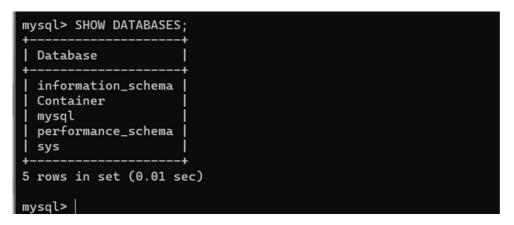
Osntainers Desapis e Prática

> São Paulo, 2023

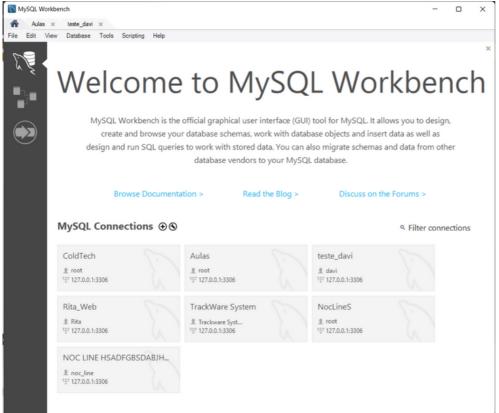
```
ubuntu@ip-172-31-28-92:~$ sudo apt update && sudo apt upgrade -
   Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
   Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
                                                                                                       Atividade 12
     [119 kB]
   Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelea
    se [109 kB]
                                                                                               Criação de Container e
   Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
                                                                                                 Utilização do MySql
    No VM guests are running outdated hypervisor (qemu) binaries on this host.
    ubuntu@ip-172-31-28-92:~$ sudo apt install docker.io
                                                                                                  dentro do container
    Reading package lists... Done
    Building dependency tree... Done
    Reading state information... Done
                                                                                               Utilizando os comandos sudo apt upgrade
    The following packages were automatically installed and are no longer requir
                                                                                               e update para puxar os pacotes e atualizar
                                                                                                                eles
                                                                                                         Instalação do Docker
    No VM guests are running outdated hypervisor (qemu) binaries on this host.ubuntu@ip-172-31-28-92:~$ docker --version
    Docker version 24.0.5, build 24.0.5-0ubuntu1~22.04.1
                                                                                               Confirmando a instalação ao apresentar a
    ubuntu@ip-172-31-28-92:~$
                                                                                                           versão instalada
    ubuntu@ip-172-31-28-92:~$ sudo systemctl start docker
                                                                                                          Iniciando o docker
    ubuntu@ip-172-31-28-92:~$
    ubuntu@ip-172-31-28-92:~$ sudo systemctl enable docker
                                                                                                         Habilitando o docker
                           92:~$ sudo docker pull mysql:5.7
    5.7: Pulling from library/mysql
    9ad776bc3934: Pulling fs layer
                                                                                                          Instalado o mysql
    a280ac4a8665: Pulling fs layer
    4047a3b08336: Pulling fs layer
    435611dd4999: Pulling fs layer
    f84f2572cb0b: Pulling fs layer
    ef893e58839b: Pulling
                            fs layer
    ubuntu@ip-172-31-28-92:<mark>~$ sudo docker images</mark>
                                                                                                      Puxando as imagens o mysql
    REPOSITORY
                   TAG
                              IMAGE ID
                                               CREATED
                                                               SIZE
                   5.7
                              547b3c3c15a9
                                               13 days ago
                                                               501MB
    mysql
     buntu@ip-172-31-28-92:~$ sudo docker run -d -p 3306:3306 --name ContainerBD
        "MYSQL_DATABASE=Container" -e "MYSQL_ROOT_PASSWORD=#Gf47148790816" mysql
    :5.7
                                                                                                 Criando um container dentro do mysql
    f4d0b3a5c3fcc7212c77ea6c6c2ba346f9ca8da77969e8a84538527bb6b53593
                                                      PORTS 0.0.0:3306->3306/tcp.
                 2:~$ sudo docker
CPU %
nerBD 0.32%
                                stats ContainerBD
MEM USAGE / LIMIT
200.5MiB / 949.7MiB
CONTAINER ID
            NAME
                                                                            BLOCK I/O
                                                                                         PIDS
                                                            NET I/O
                                                    21.12%
MEM %
21.12%
f4d0b3a5c3fc
                                                            22.2kB / 1.56kB
                                                                            59MB / 291MB
BLOCK I/O
                                                                                         27
PIDS
                                                                                                    Confirmando o status do docker
                                 MEM USAGE / LIMIT
200.5MiB / 949.7MiB
CONTAINER ID
                                                            NET I/O
22.2kB / 1.56kB
            NAME
                        CPU %
                                                                            59MB / 291MB
BLOCK I/O
            ContainerBD
                        0.05%
CONTAINER ID
            NAME
                        CPII %
                                 MEM USAGE / LIMIT
200.5MiB / 949.7MiB
                                                    MEM %
                                                            NET I/O
                                                                                         PIDS
                                                            22.2kB /
                                                                            59MB / 291MB
            ContainerBD
                                                                            BLOCK I/O
CONTAINER ID
            NAME
                                 MEM USAGE
                                          / LIMIT
949.7MiB
                                                                                         PIDS
                                 200.5MiB
 4d0b3a5c3fc
                                                            22.2kB /
                                                                            59MB / 291MB
    ubuntu@ip-172-31-28-92:~$ sudo docker exec -it ContainerBD bash
    bash-4.2#
                                                                                                  Iniciando monitoramento do docker
    ubuntu@ip-172-31-28-92:~$ sudo docker exec -it ContainerBD bash
    bash-4.2# mysql -u root -p
    Enter password:
    Welcome to the MySQL monitor.
                                       Commands end with; or \g.
    Your MySQL connection id is 2
                                                                                                  Iniciando o mysql dentro do docker
    Server version: 5.7.44 MySQL Community Server (GPL)
    Copyright (c) 2000, 2023, Oracle and/or its affiliates.
    Oracle is a registered trademark of Oracle Corporation and/or its
    affiliates. Other names may be trademarks of their respective
```

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

mysql>

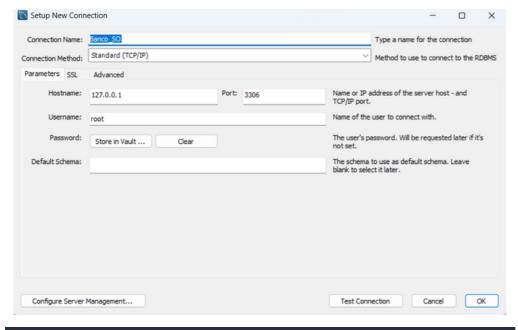


Usando o comando show database para confirmar a utilização do mysql no docker



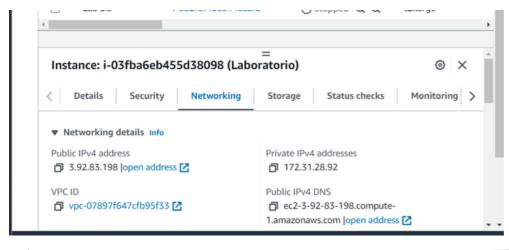
Desafio - Conexão Máquina Virtual com o MySql

Iniciando o banco de dados MySql e criando uma nova conexão



ndo nas instancia das máquinas virtuais e selecionando a que estou usando





Selecionando a área de Redes dentro dessa instancia e copiando o código ipv4 que será utilizado mais adiante



Instance: i-03fba6eb455d38098 (Laboratorio)

✓ Details Security Networking Storage Status checks Monitoring > abrindo o link segurança (segurança (segura

Security groups

Acessando a área de segurancia e abrindo o link sobre os grupos de segurança (security groups)

Editando regras

EC2 > Security Groups > sg-0032d0c0423267d70 - launch-wizard-6

Sg-0032d0c0423267d70 - launch-wizard-6

Details

Security group name

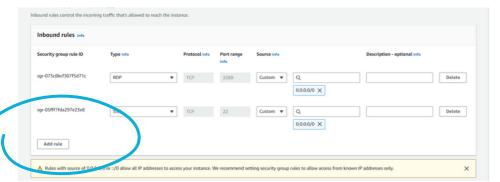
☐ surch-wizard-6
☐ sg-0032d0c0423267d70
☐ sp-0032d0c0423267d70
☐ surch-wizard-6 created 2023-1011223-2930.0962

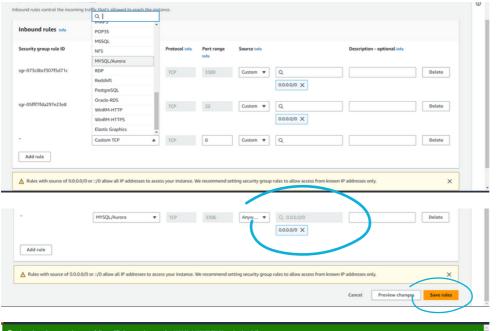
Owner
☐ sp-0032d0c0423267d70
☐ sp-0032d0c0423267d

Mon Nov 06 2023 20:56:02 GMT-0300 (Horário

Padrão de Brasília)

Adicionando uma nova regra



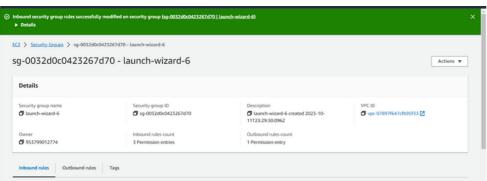


Configurando essa nova regra e trocando o tcp customizado por MySQL/Aurora

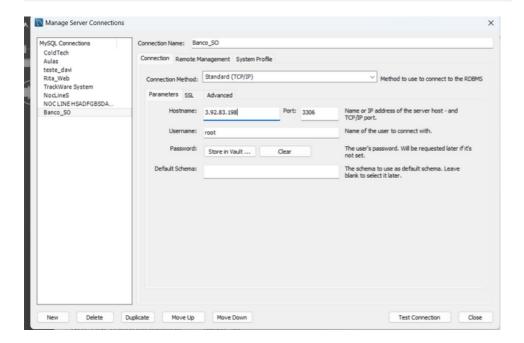
Adicionando os locais/ips que podem acessar

Salvando a nova regra

Confirmando com a mensagem de sucesso

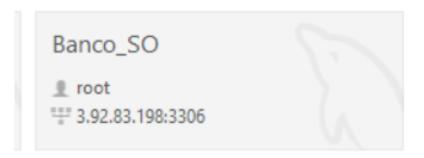


Editando a conexão criada e adicionando o código ipv4 publico no hostname da nossa conexão

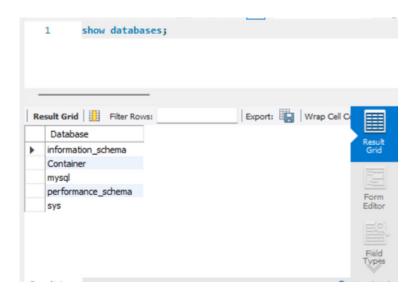


MySQL Workbench Advar ver Successfully made the MySQL connection 92.8 Information related to this connection: oot Host: 3.92.83.198 Port: 3306 Store User: root SSL: enabled with DHE-RSA-AES128-GCM-SHA256 4.18 A successful MySQL connection was made with the parameters defined for this connection. OK

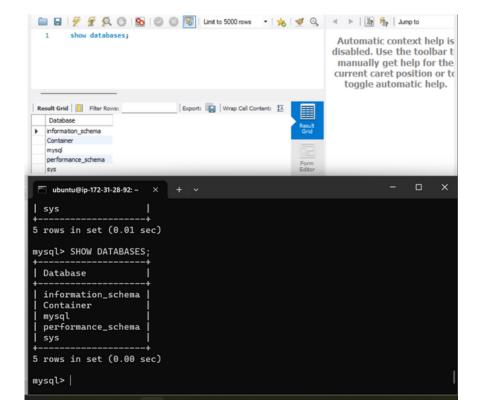
Testando a conexão juntamente com a senha definida na criação do container e confirmando



Confirmando a criação da conexão e acessando ela



Realizando o mesmo comando feito pelo terminal dentro do mysgl



Comparando o resultado dos dois comando para confirmar se a conexão doi realmente bem sucedida

```
5 rows in set (0.00 sec)

mysql> exit

Bye
bash-4.2# exit
exit
ubuntu@ip-172-31-28-92:~$|
```

Saindo do container e do mysql via terminal