

# Atividade Docker Compose

P4 Informática

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Aqui abaixo acessamos o diretório /home (*cd /home*) e criamos a pasta atividade-docker-compose (*mkdir*), dentro da pasta criamos o arquivo docker-compose.yml (*touch*), então acessamos o arquivo com *vim docker-compose.yml*:

```
[node1] (local) root@192.168.0.18 ~
$ cd /home
[node1] (local) root@192.168.0.18 /home
$ ls
dockremap
[node1] (local) root@192.168.0.18 /home
$ mkdir atividade-docker-compose
[node1] (local) root@192.168.0.18 /home
$ ls -l
total 0
drwxr-xr-x  2 root      root           6 Jan 20 18:04 atividade-docker-compose
drwxr-sr-x  2 dockremap dockremap      6 Dec 19 07:07 dockremap
[node1] (local) root@192.168.0.18 /home
$ cd atividade-docker-compose
[node1] (local) root@192.168.0.18 /home/atividade-docker-compose
$ touch docker-compose.yml
[node1] (local) root@192.168.0.18 /home/atividade-docker-compose
$ ls
docker-compose.yml
[node1] (local) root@192.168.0.18 /home/atividade-docker-compose
$ vim docker-compose.yml
```

Conteúdo do arquivo docker-compose.yml que permite a criação do ambiente PostgreSQL + pgAdmin 4:

```
1
2 version: '3'
3
4 services:
5   teste-postgres-compose:
6     image: postgres
7     environment:
8       POSTGRES_PASSWORD: "Postgres2019!"
9     ports:
10      - "15432:5432"
11     volumes:
12      - /home/renatogroffe/Desenvolvimento/Docker-Compose/PostgreSQL:/var/lib/postgresql
13      /data
14     networks:
15      - postgres-compose-network
16   teste-pgadmin-compose:
17     image: dpage/pgadmin4
18     environment:
19       PGADMIN_DEFAULT_EMAIL: "renatogroff@yahoo.com.br"
20       PGADMIN_DEFAULT_PASSWORD: "PgAdmin2019!"
21     ports:
22      - "16543:80"
23     depends_on:
24      - teste-postgres-compose
25     networks:
26      - postgres-compose-network
27
28 networks:
29   postgres-compose-network:
30     driver: bridge
```

docker-compose.yml" 30L, 677B 1,0-1 All

Criação da network e dos containers e download das imagens:

```
[node1] (local) root@192.168.0.28 /home/atividade-docker-compose
$ sudo docker-compose up -d
WARN[0000] /home/atividade-docker-compose/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 28/32
[+] Running 28/32compose [ ] 146.2MB / 170.3MB Pulling 10.8s
[+] Running 28/32compose [ ] 146.2MB / 170.3MB Pulling 15.0s
[+] Running 28/32compose [ ] 146.2MB / 170.3MB Pulling 21.2s
[+] Running 28/32compose [ ] 146.2MB / 170.3MB Pulling 21.5s
[+] Running 28/32compose [ ] 146.2MB / 170.3MB Pulling 22.6s
[+] Running 30/32compose [ ] 146.2MB / 170.3MB Pulling 22.7s
[+] Running 30/32compose [ ] 163.5MB / 170.3MB Pulling 29.5s
[+] Running 30/32compose [ ] 163.5MB / 170.3MB Pulling 29.6s
[+] Running 30/32compose [ ] 163.5MB / 170.3MB Pulling 29.7s
[+] Running 30/32compose [ ] 163.5MB / 170.3MB Pulling 29.9s
[+] Running 30/32compose [ ] 163.5MB / 170.3MB Pulling 30.2s
[+] Running 30/32compose [ ] 166.8MB / 170.3MB Pulling 31.0s
[+] Running 30/32compose [ ] 170.3MB / 170.3MB Pulling 31.6s
[+] Running 32/32compose [ ] 170.3MB / 170.3MB Pulling 32.2s
✓ teste-pgadmin-compose Pulled 32.3s
✓ 38a8310d387e Pull complete 0.9s
✓ 087843ea2956 Pull complete 23.1s
✓ 6db836a75a2d Pull complete 23.3s
✓ 5d0e4706d110 Pull complete 23.4s
✓ 31ebcef82521 Pull complete 23.4s
✓ 91551c39a7c3 Pull complete 23.5s
✓ 210d55276a54 Pull complete 23.5s
✓ 0f3a11d54a10 Pull complete 23.6s
✓ dcd3056dbb91 Pull complete 26.0s
✓ 545d1f431f52 Pull complete 27.1s
✓ 48449e1741e8 Pull complete 27.2s
✓ 1213e95defdb Pull complete 27.2s
✓ 55c17a7b26f0 Pull complete 27.3s
```

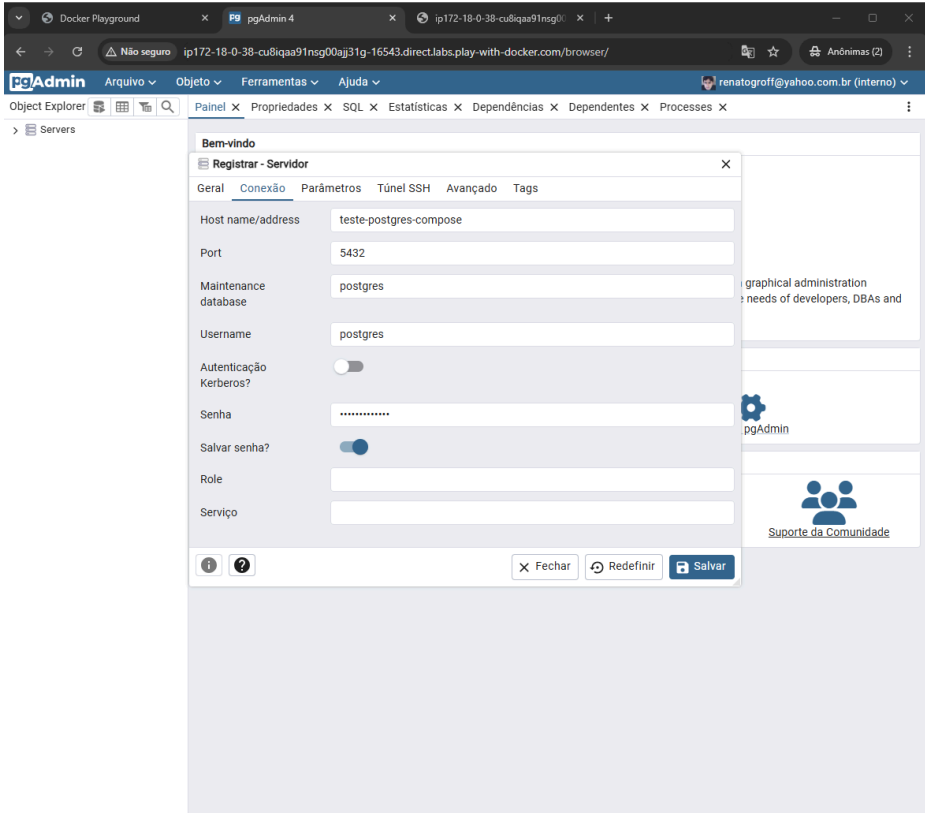
Confirmação da criação da rede

```
[node1] (local) root@192.168.0.28 /home/atividade-docker-compose
$ sudo docker network ls
NETWORK ID          NAME                                                    DRIVER  SCOPE
7765ac2ff655        atividade-docker-compose_postgres-compose-network    bridge  local
e6ff2c4b1f18        bridge                                                bridge  local
7f25c393dbdd        host                                                  host    local
51ea55b3faff        none                                                  null    local
```

Indicar que os containers do PostgreSQL e pgAdmin 4 foram gerados corretamente

```
$ sudo docker-compose ps
WARN[0000] /home/atividade-docker-compose/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
NAME                                IMAGE                                COMMAND
SERVICE                            CREATED                            STATUS                            PORTS                            COMMAND
atividade-docker-compose-teste-pgadmin-compose-1  dpage/pgadmin4                    "/entrypoint.sh"
teste-pgadmin-compose                7 minutes ago                    Up 7 minutes                    443/tcp, 0.0.0.0:16543->80/tcp
atividade-docker-compose-teste-postgres-compose-1  postgres                          "docker-entrypoint.s..."
teste-postgres-compose                7 minutes ago                    Up 7 minutes                    0.0.0.0:15432->5432/tcp
```

Testando o ambiente do pgAdmin4 com o PostgreeSQL:



Verificando o banco de dados:

