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Turma: P4 de Informática
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Criação de um arquivo chamado **docker-compose.yml**, o qual conterá as configurações para a geração de containers e networks. ->

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

Criação da network e dos containers esperados, efetuando inclusive o download das imagens

```
# The FWD team.
#####
[modell] (local) root@192.168.0.8 ~
$ vi docker-compose.yml
[modell] (local) root@192.168.0.8 ~
$ sudo docker-compose up -d
WARN[0000] /root/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 2/32
[+] Running 3/32s-compose [ ] Pulling
[+] Running 16/32s-compose [ ] Pulling
[+] Running 27/32s-compose [ ] 142.1MB / 153.8MB Pulling
[+] Running 28/32s-compose [ ] 149.1MB / 153.8MB Pulling
[+] Running 32/32s-compose [ ] 150.6MB / 153.8MB Pulling
[+] Running 32/32s-compose [ ] 150.6MB / 153.8MB Pulling
```

A instrução **docker network ls** confirma que a rede **postgres-compose-network** foi criada com sucesso.

```
$ sudo docker network ls
NETWORK ID          NAME                                DRIVER              SCOPE
a5562aa35ce3        bridge                             bridge              local
092bb3f702cf        docker_gwbridge                   bridge              local
4536ec369f5f        host                              host                local
9fa6c8eab65f        none                               null                local
9ced287f9014        root_postgres-compose-network     bridge              local
[node1] (local) root@192.168.0.8 ~
```

O comando **docker-compose ps** indica que os containers do **PostgreSQL** (porta **15432**) e do **pgAdmin 4** (porta **16543**) foram gerados corretamente e se encontram em execução

```
$ sudo docker-compose ps
WARN[0000] /root/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
root-teste-pgadmin-compose-1       dpape/pgadmin4    "/entrypoint.sh"     teste-pgadmin-compose 3 minutes ago      Up 3 minutes        443/tcp, 0.0.0.0:16543->80/tcp
root-teste-postgres-compose-1      postgres          "docker-entrypoint.s..." teste-postgres-compose 3 minutes ago      Up 3 minutes        0.0.0.0:15432->5432/tcp
[node1] (local) root@192.168.0.8 ~
```

Conexão ao **PostgreSQL** via **pgAdmin 4** ocorreu com sucesso

