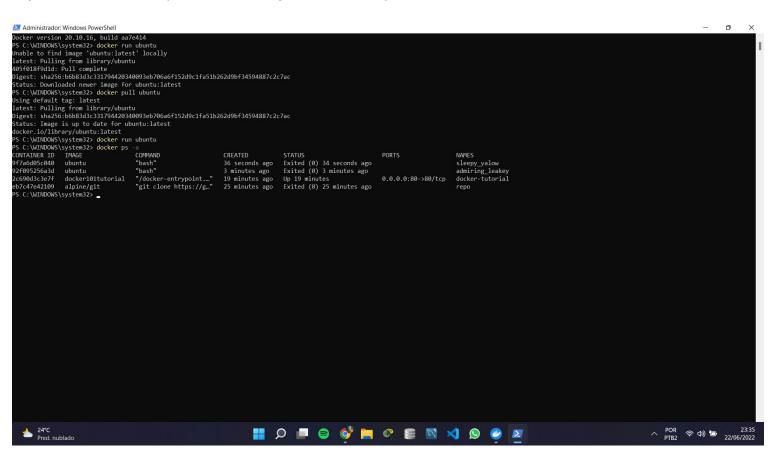1) Criar um container a partir de uma imagem ubuntu ou alpine;

2) Entrar no container de formar a usar o shell e instalar o Apache

```
exit
PS C:\WINDOWS\system32> docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
Digest: sha256:bb3908c9ed452c50fa0756e603116fb30cf66270249d936ab646e806f368ebc3
Status: Image is up to date for httpd:latest
docker.io/library/httpd:latest
PS C:\WINDOWS\system32> docker images
REPOSITORY         TAG       IMAGE ID       CREATED            SIZE
helloworld         latest    6de9e39461ae   28 minutes ago     77.8MB
docker101tutorial  latest    947c4c155ea5   About an hour ago  28.8MB
alpine/git         latest    620bef75a214   2 days ago         39.4MB
httpd              latest    b260a49eebf9   9 days ago         145MB
ubuntu             latest    27941809078c   2 weeks ago        77.8MB
PS C:\WINDOWS\system32> docker run -d --name apache-serve -p 80:80 httpd
545e18add9096af7b662754cc946b4ef0fb074a155c2d55792a98f7d4b9451a4
docker: Error response from daemon: driver failed programming external connectivity on endpoint apache-serve (bdaed7c88b8b223a5f12ac5c563608d580228b7659c7e7e62074e52d78930da4): Bind for 0.0.0.0:80 failed: port i
s already allocated.
PS C:\WINDOWS\system32>
```

2) Entrar no container de formar a usar o shell e instalar o PHP

```
PS C:\WINDOWS\system32> docker pull php:7.4-apache
7.4-apache: Pulling from library/php
42c077c10790: Already exists
8934009a9160: Pull complete
5357ac116991: Pull complete
54ae63894b5a: Pull complete
772088206f85: Pull complete
3b81c5474649: Pull complete
c62a528527ae: Pull complete
344c792709d4: Pull complete
ef9638273c35: Pull complete
4ec70638e42f: Pull complete
5a0f65f5bb3b: Pull complete
55578a5ce5e8: Pull complete
f1dd85b4dfa5: Pull complete
Digest: sha256:c65cd02abef32e0ab1558788dbcf855e6dde301159da14651c844f533b34a411
Status: Downloaded newer image for php:7.4-apache
docker.io/library/php:7.4-apache
PS C:\WINDOWS\system32> docker volume create apache-data
apache-data
PS C:\WINDOWS\system32> docker volume inspect apache-data
[
    {
        "CreatedAt": "2022-06-23T03:20:54Z",
        "Driver": "local",
        "Labels": {},
        "Mountpoint": "/var/lib/docker/volumes/apache-data/_data",
        "Name": "apache-data",
        "Options": {},
        "Scope": "local"
    }
]
```

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2) Entrar no container de formar a usar o shell e instalar o MySQL;

```
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\WINDOWS\system32> docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql
c1ad9731b2c7: Pull complete
54f6eb0ee84d: Pull complete
cffcf8691bc5: Pull complete
89a783b5ac8a: Pull complete
6a8393c7be5f: Pull complete
af768d0b181e: Pull complete
810d6aaaf54a: Pull complete
2e014a8ae4c9: Pull complete
a821425a3341: Pull complete
3a10c2652132: Pull complete
4419638feac4: Pull complete
681aeed97dfe: Pull complete
Digest: sha256:548da4c67fd8a71908f17c308b8ddb098acf5191d3d7694e56801c6a8b2072cc
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
PS C:\WINDOWS\system32> docker images
REPOSITORY          TAG         IMAGE ID       CREATED           SIZE
helloworld          latest      6de9e39461ae   44 minutes ago    77.8MB
docker101tutorial   latest      947c4c155ea5   About an hour ago  28.8MB
alpine/git          latest      620bef75a214   2 days ago        39.4MB
httpd               latest      b260a49eebf9   9 days ago        145MB
php                 7.4-apache  54884b354869   13 days ago       452MB
ubuntu              latest      27941809078c   2 weeks ago       77.8MB
mysql               latest      65b636d5542b   3 weeks ago       524MB
PS C:\WINDOWS\system32> docker run -d --name mysql-server -p 3306:3306 -e "MYSQL_ROOT_PASSWORD=kamisama123" mysql
c8c4d34c0521c6f139c6d0cd4b8152c61bade3c4975ffc2db501933ba27c63c6
docker: Error response from daemon: Ports are not available: exposing port TCP 0.0.0.0:3306 -> 0.0.0.0:0: listen tcp 0.0.0.0:3306: bind: Only one usage of each socket address (protocol/network address/port) is n
ormally permitted.
PS C:\WINDOWS\system32>
```

3) Instalar o PHPMyAdmin;

4) Commitar o container com o apelido ubuntu/phpmyadmin;

```
PS C:\WINDOWS\system32> docker commit 24eb79d81ef4 ubuntu/phpmyadmin
sha256:33819838be6fa2ca83f5af9f7ca8fe23953dfb512720a4c22c3f5e3183b17ebc
PS C:\WINDOWS\system32> docker images
REPOSITORY            TAG         IMAGE ID       CREATED           SIZE
ubuntu/phpmyadmin     latest      33819838be6f   11 seconds ago    510MB
helloworld            latest      6de9e39461ae   About an hour ago 77.8MB
docker101tutorial     latest      947c4c155ea5   2 hours ago       28.8MB
alpine/git            latest      620bef75a214   2 days ago        39.4MB
httpd                 latest      b260a49eebf9   9 days ago        145MB
php                   7.4-apache  54884b354869   13 days ago       452MB
ubuntu                latest      27941809078c   2 weeks ago       77.8MB
mysql                 latest      65b636d5542b   3 weeks ago       524MB
phpmyadmin/phpmyadmin latest      4a4023c7e22a   5 weeks ago       510MB
PS C:\WINDOWS\system32>
```