

1. docker --version

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker -v  
Docker version 25.0.3, build 4debf41
```

2. \$ docker pull

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker pull postgres:12.3-alpine  
12.3-alpine: Pulling from library/postgres  
df20fa9351a1: Pulling fs layer  
600cd4e17445: Pulling fs layer  
04c8eedc9a76: Pulling fs layer  
5297ada89a4c: Pulling fs layer  
98abddcccd61: Pulling fs layer  
e1c4a715559d: Pulling fs layer  
45b14c068d3c: Pulling fs layer  
b5953399c544: Pulling fs layer  
5297ada89a4c: Waiting  
e1c4a715559d: Waiting  
45b14c068d3c: Waiting  
b5953399c544: Waiting  
98abddcccd61: Waiting  
04c8eedc9a76: Verifying Checksum  
04c8eedc9a76: Download complete  
600cd4e17445: Verifying Checksum  
600cd4e17445: Download complete  
df20fa9351a1: Download complete  
df20fa9351a1: Pull complete  
600cd4e17445: Pull complete  
98abddcccd61: Verifying Checksum  
98abddcccd61: Download complete  
04c8eedc9a76: Pull complete  
e1c4a715559d: Verifying Checksum  
e1c4a715559d: Download complete  
b5953399c544: Download complete  
45b14c068d3c: Verifying Checksum  
45b14c068d3c: Download complete  
5297ada89a4c: Verifying Checksum  
5297ada89a4c: Download complete  
5297ada89a4c: Pull complete  
98abddcccd61: Pull complete  
e1c4a715559d: Pull complete  
45b14c068d3c: Pull complete  
b5953399c544: Pull complete  
Digest: sha256:7693f2082c681571d1dfa66d63f21689192c0c36108f4eb28be0aee0dc285921  
Status: Downloaded newer image for postgres:12.3-alpine  
docker.io/library/postgres:12.3-alpine  
  
What's Next?  
View a summary of image vulnerabilities and recommendations → docker scout quickview postgres:12.3-alpine
```

3. \$ docker

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker image ls  
REPOSITORY    TAG                IMAGE ID           CREATED           SIZE  
postgres      12.3-alpine       17150f4321a3      3 years ago      157MB
```

4. \$ docker run -d <image-name>

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker run -d 17150f4321a3  
25e50c4ed96dd314a33006bb5436c8fc1ab3e7cc73f5935b1210d4b7bf52da16
```

5. \$ docker ps

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker ps  
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
```

6. \$ Docker start|stop <container_name>

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker start 25e50c4ed96d  
25e50c4ed96d
```

7. \$ docker run -p <host_port>:<container_port> -d <image_name>

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker run -p 5433:5432 -d 17150f4321a3  
70026acd4ba45a202fb5765e66b4dbd5a0e495f02dfa61103f8ed2f9f8cc0082
```

8. docker logs -f <container_name>

```
User@DESKTOP-19NICRJ MINGW64 ~  
$ docker logs -f 6715caeb1bfc  
The files belonging to this database system will be owned by user "postgres".  
This user must also own the server process.  
  
The database cluster will be initialized with locale "en_US.utf8".  
The default database encoding has accordingly been set to "UTF8".  
The default text search configuration will be set to "english".  
  
Data page checksums are disabled.  
  
fixing permissions on existing directory /var/lib/postgresql/data ... ok  
creating subdirectories ... ok  
selecting dynamic shared memory implementation ... posix  
selecting default max_connections ... 100  
selecting default shared_buffers ... 128MB  
selecting default time zone ... UTC  
creating configuration files ... ok  
running bootstrap script ... ok  
sh: locale: not found  
2024-03-01 07:14:50.311 UTC [30] WARNING: no usable system locales were found  
performing post-bootstrap initialization ... ok  
syncing data to disk ... ok  
  
initdb: warning: enabling "trust" authentication for local connections
```

9. `docker exec -it <container_name> sh`

```
C:\Users\User>docker exec -it 6715caeb1bfc sh
/ #
```