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Kelas & Batch : Data Engineering Batch 4

1. Untuk melihat apakah docker desktop sudah ter-install dan untuk melihat versinya

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.4529]
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C:\Users\User>docker -v
Docker version 26.1.4, build 5650f9b

C:\Users\User>
```

2. Untuk mengambil image dari docker hub

```
Administrator: Command Prompt

C:\Users\User>docker pull redis
Using default tag: latest
latest: Pulling from library/redis
f11c1adaa26e: Pull complete
41f83d877c13: Pull complete
20771cb9a20a: Pull complete
29b87d971ae8: Pull complete
289008bce010: Pull complete
7a8c9f3e2419: Pull complete
4f4fb700ef54: Pull complete
09ade1b57f71: Pull complete
Digest: sha256:fb534a36ac2034a6374933467d971fbcba5d213805507f560d564851a720355
Status: Downloaded newer image for redis:latest
docker.io/library/redis:latest

What's next:
  View a summary of image vulnerabilities and recommendations → docker scout quickview redis
```

3. Untuk melihat image yang ada

```
Administrator: Command Prompt

C:\Users\User>docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
my-application       latest      146cbbe28f8c  18 hours ago  179MB
redis                latest      9c893be668ac  6 weeks ago   116MB
docker/welcome-to-docker latest      c1f619b6477e  8 months ago  18.6MB

C:\Users\User>
```

4. Untuk membuat container dari image dan langsung menjalankan container-nya

```
Administrator: Command Prompt

C:\Users\User>docker run -d redis
85645dd8990ed2a39a64d531ea488f2833918dfb249099265bcbafdc48035601

C:\Users\User>
```

5. Untuk melihat container yang sedang berjalan

```
C:\Users\User>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
85645dd8990e   redis    "docker-entrypoint.s..." 28 seconds ago Up 26 seconds 6379/tcp     elated_kare

C:\Users\User>
```

6. Docker start untuk menjalankan container yang sudah ada, sedangkan docker stop untuk memberhentikan container yang sedang berjalan

```
C:\Users\User>docker start wizardly_blackburn
wizardly_blackburn

C:\Users\User>

C:\Users\User>docker stop wizardly_blackburn
wizardly_blackburn

C:\Users\User>
```

7. Untuk menjalankan container dan setting port container ke host

```
C:\Users\User>docker run -p 8080:80 -d redis
8658b2a0494013f0c3109f83a362540bb38ad471d41fa69cb58e12ab2551e78f

C:\Users\User>
```

## 8. Untuk melihat riwayat sebuah container

```
C:\Users\User>docker logs -f wizardly_blackburn
1:C 05 Jul 2024 07:28:53.856 * o000o000o000o Redis is starting o000o000o000o
1:C 05 Jul 2024 07:28:53.856 * Redis version=7.2.5, bits=64, commit=00000000, modified=0, pid=1, just started
1:C 05 Jul 2024 07:28:53.856 # Warning: no config file specified, using the default config. In order to specify a co
file use redis-server /path/to/redis.conf
1:M 05 Jul 2024 07:28:53.857 * monotonic clock: POSIX clock_gettime
1:M 05 Jul 2024 07:28:53.858 * Running mode=standalone, port=6379.
1:M 05 Jul 2024 07:28:53.861 * Server initialized
1:M 05 Jul 2024 07:28:53.861 * Ready to accept connections tcp
1:signal-handler (1720164642) Received SIGTERM scheduling shutdown...
1:M 05 Jul 2024 07:30:42.933 * User requested shutdown...
1:M 05 Jul 2024 07:30:42.933 * Saving the final RDB snapshot before exiting.
1:M 05 Jul 2024 07:30:42.939 * DB saved on disk
1:M 05 Jul 2024 07:30:42.940 # Redis is now ready to exit, bye bye...
1:C 05 Jul 2024 07:32:09.467 * o000o000o000o Redis is starting o000o000o000o
1:C 05 Jul 2024 07:32:09.467 * Redis version=7.2.5, bits=64, commit=00000000, modified=0, pid=1, just started
1:C 05 Jul 2024 07:32:09.467 # Warning: no config file specified, using the default config. In order to specify a co
file use redis-server /path/to/redis.conf
1:M 05 Jul 2024 07:32:09.467 * monotonic clock: POSIX clock_gettime
1:M 05 Jul 2024 07:32:09.468 * Running mode=standalone, port=6379.
1:M 05 Jul 2024 07:32:09.469 * Server initialized
1:M 05 Jul 2024 07:32:09.470 * Loading RDB produced by version 7.2.5
1:M 05 Jul 2024 07:32:09.470 * RDB age 87 seconds
1:M 05 Jul 2024 07:32:09.470 * RDB memory usage when created 0.83 Mb
1:M 05 Jul 2024 07:32:09.470 * Done loading RDB, keys loaded: 0, keys expired: 0.
1:M 05 Jul 2024 07:32:09.470 * DB loaded from disk: 0.000 seconds
1:M 05 Jul 2024 07:32:09.470 * Ready to accept connections tcp
```

## 9. Untuk membuka shell di dalam sebuah container

```
C:\Users\User>docker exec -it wizardly_blackburn sh
#
```