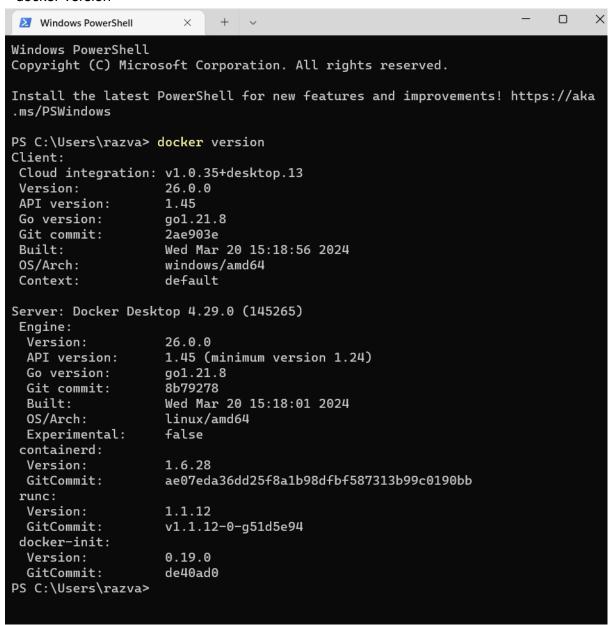
- *** Installation in a Container ***
- 1. Install Docker

https://docs.docker.com/docker-for-windows/install/

2. Open Windows Terminal and check Docker version

> docker version



3. Run the Hello World sample

docker run hello-world

- You shoud see a hello message at the command prompt.

```
PS C:\Users\razva> docker run hello-world
Unable to find image 'hello-world:latest' locally latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:266b191e926f65542fa8daaec01a192c4d292bff79426f47300a046e1bc57
6fd
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent
    to your terminal.
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
PS C:\Users\razva>
```

4. See the running containers

> docker ps -a

You should see the Hello World running.

PS C:\Users\razva> docker ps -a				
CONTAINER ID	IMAGE	COMMAND	CREATED	STATU
S	PORTS		NAMES	
1ece7afe1381	hello-world	"/hello"	42 seconds ago	Exite
d (0) 40 secon	ids ago	fervent_euclid		
b866616001e4	mongo	"docker-entrypoint.s	." 7 hours ago	Up 7
hours	0.0.0	.0:27888->27017/tcp	mongo-on-docker	
PS C:\Users\razva>				

5. List all images currently downloaded in the system

> docker image Is

```
PS C:\Users\razva> docker image ls
REPOSITORY
              TAG
                        IMAGE ID
                                        CREATED
                                                        SIZE
              latest
                        ff65a94ec485
                                        3 weeks ago
                                                        795MB
mongo
hello-world
              latest
                        d2c94e258dcb
                                        12 months ago
                                                        13.3kB
PS C:\Users\razva>
```

6. See the log of the container

> docker ps -a <- Note down the container ID

> docker logs <container id>

```
PS C:\Users\razva> docker ps
CONTAINER ID
                             COMMAND
                                                                      STATUS
               IMAGE
                                                      CREATED
                     PORTS
                                                NAMES
1ece7afe1381
               hello-world
                             "/hello"
                                                      2 minutes ago
                                                                      Exited
(0) 2 minutes ago
                                                fervent_euclid
                             "docker-entrypoint.s..." 7 hours ago
b866616001e4
                                                                      Up 7 h
              mongo
                     0.0.0.0:27888->27017/tcp
                                                mongo-on-docker
PS C:\Users\razva> docker logs <1ece7afe1381>
+ docker logs <1ece7afe1381>
The '<' operator is reserved for future use.
                            : ParserError: (:) [], ParentContainsErrorReco
   + CategoryInfo
   rdException
   + FullyQualifiedErrorId : RedirectionNotSupported
PS C:\Users\razva> docker logs 1ece7afe1381
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent
it
    to your terminal.
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
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https://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

7. List all running containers

> docker container Is

```
PS C:\Users\razva> docker container ls

CONTAINER ID IMAGE COMMAND CREATED STATUS

PORTS NAMES

b866616001e4 mongo "docker-entrypoint.s..." 7 hours ago Up 7 hours

0.0.0.0:27888->27017/tcp mongo-on-docker

PS C:\Users\razva>
```

8. Start a local MongoDB instance running inside a Docker container > docker run -d --name mongo-on-docker -p 27888:27017 -e MONGO_INITDB_ROOT_USERNAME=mongoadmin -e MONGO_INITDB_ROOT_PASSWORD=secret mongo

```
PS C:\Users\razva> docker run -d --name mongo-on-docker -p 27888:27017 -e MO NGO_INITDB_ROOT_USERNAME=mongoadmin -e MONGO_INITDB_ROOT_PASSWORD=secret mon go docker: Error response from daemon: Conflict. The container name "/mongo-on-docker" is already in use by container "b866616001e48a77d2f588441dd32366c21c 8abccbf05b37d745ac42cbc85ba2". You have to remove (or rename) that container to be able to reuse that name.

See 'docker run --help'.

PS C:\Users\razva>
```

9. Connect to the local MongoDB instance using Mongo Shell

> mongosh mongodb://mongoadmin:secret@localhost:27888/?authSource=admin

```
PS C:\Users\razva> mongosh mongodb://mongoadmin:secret@localhost:27888/?auth Source=admin Current Mongosh Log ID: 6648f8a6079a48a7cb7606d2 Connecting to: mongodb://<credentials>@localhost:27888/?authSource=admin&directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.0
```

NEXT:

We will import some sample data into the MongoDB instance. Familiarize yourself with MongoDB Database Tools, particularly mongoimport.