C:\Users\User\Documents\TP4>**docker login**
Authenticating with existing credentials... [Username: ineshk]

i Info → To login with a different account, run 'docker logout' followed by 'docker login'

2025/11/12 22:33:36 notifying Desktop of credentials store update: Post "http://ipc/registry/credstore-updated": context deadline exceeded
Login Succeeded

C:\Users\User\Documents\TP4>**docker build -t tp3-image:1.0 .**
[+] Building 7.1s (11/11) FINISHED docker:desktop-linux
 => [internal] load build definition from Dockerfile 0.1s
 => => transferring dockerfile: 199B 0.0s
 => [internal] load metadata for docker.io/library/python:3.11-slim 4.1s
 => [auth] library/python:pull token for registry-1.docker.io 0.0s
 => [internal] load .dockerignore 0.0s
 => => transferring context: 2B 0.0s
 => [1/5] FROM docker.io/library/python:3.11-slim@sha256:e4676722fba839e2e5cdb844a52262b43e90e56dbd55b7ad 0.2s
 => => resolve docker.io/library/python:3.11-slim@sha256:e4676722fba839e2e5cdb844a52262b43e90e56dbd55b7ad 0.2s
 => [internal] load build context 0.2s
 => => transferring context: 242B 0.1s
 => CACHED [2/5] WORKDIR /app 0.0s
 => CACHED [3/5] COPY requirements.txt ./ 0.0s
 => CACHED [4/5] RUN pip install --no-cache-dir -r requirements.txt 0.0s
 => CACHED [5/5] COPY . . 0.0s
 => exporting to image 0.9s
 => => exporting layers 0.0s
 => => exporting manifest sha256:ac114f87a1233a40c0543a8adc5d95dc4ae2de8f3b10f1ff356c84e4256288a5 0.0s

=> => exporting config
sha256:1f161b635025197d3f0d26388610098d6118694c4d822547aace165c1702af0e
0.0s
=> => exporting attestation manifest
sha256:908ceec76be123784d4f66ba7a565a7dba84de2deb5e12ac1b73cb9d3485 0.2s
=> => exporting manifest list
sha256:2b7e9472fa435363ae41aab7fea76e8ca899dbdea7ed44eba8923b9fbff632e3
0.2s
=> => naming to docker.io/library/tp3-image:1.0 0.1s
=> => unpacking to docker.io/library/tp3-image:1.0 0.1s

C:\Users\User\Documents\TP4>**docker tag tp3-image:1.0 ineshk/tp3:1.0**

C:\Users\User\Documents\TP4>**docker push ineshk/tp3:1.0**
The push refers to repository [docker.io/ineshk/tp3]
6acebaeb6c5c: Layer already exists
d7ecded7702a: Layer already exists
f002d17b63fe: Layer already exists
cc65c7af130b: Layer already exists
84bff50156f4: Layer already exists
b13c8d1fd7c8: Layer already exists
9ad5ed543b0d: Pushed
65868b001a40: Layer already exists
1ee9c106547f: Layer already exists
1.0: digest:
sha256:2b7e9472fa435363ae41aab7fea76e8ca899dbdea7ed44eba8923b9fbff632e3 size:
856

C:\Users\User\Documents\TP4>**docker pull ineshk/tp3:1.0**
1.0: Pulling from ineshk/tp3
Digest:
sha256:2b7e9472fa435363ae41aab7fea76e8ca899dbdea7ed44eba8923b9fbff632e3
Status: Image is up to date for ineshk/tp3:1.0
docker.io/ineshk/tp3:1.0

C:\Users\User\Documents\TP4>**docker create --name app1 -p 5001:5000 ineshk/tp3:1.0**

Error response from daemon: Conflict. The container name "/app1" is already in use by container
"705d51f48a04d2e863e28f352344fbf72ea0918a01cff6d9991b797244a6702c". You have to remove (or rename) that container to be able to
reuse that name.

C:\Users\User\Documents\TP4>docker create --name app2 -p 5002:5000 ineshk/tp3:1.0
Error response from daemon: Conflict. The container name "/app2" is already in use by container
"96aa08050cf2479b2b622f34c9da06215177de3dfd187bb972ac136993a07808". You have to remove (or rename) that container to be able to
reuse that name.

C:\Users\User\Documents\TP4>docker create --name app3 -p 5003:5000 ineshk/tp3:1.0
Error response from daemon: Conflict. The container name "/app3" is already in use by container
"bb73a01802b3931723fb7ce56dbd91983bb1e937dd5d051efeec841374206e0e". You have to remove (or rename) that container to be able to
reuse that name.

C:\Users\User\Documents\TP4>docker network create tp3-net
Error response from daemon: network with name tp3-net already exists

C:\Users\User\Documents\TP4>docker network connect tp3-net app1
Error response from daemon: endpoint with name app1 already exists in network tp3-net

C:\Users\User\Documents\TP4>docker network connect tp3-net app2
Error response from daemon: endpoint with name app2 already exists in network tp3-net

C:\Users\User\Documents\TP4>docker network connect tp3-net app3
Error response from daemon: endpoint with name app3 already exists in network tp3-net

C:\Users\User\Documents\TP4>docker start app1 app2 app3
app1
app2
app3

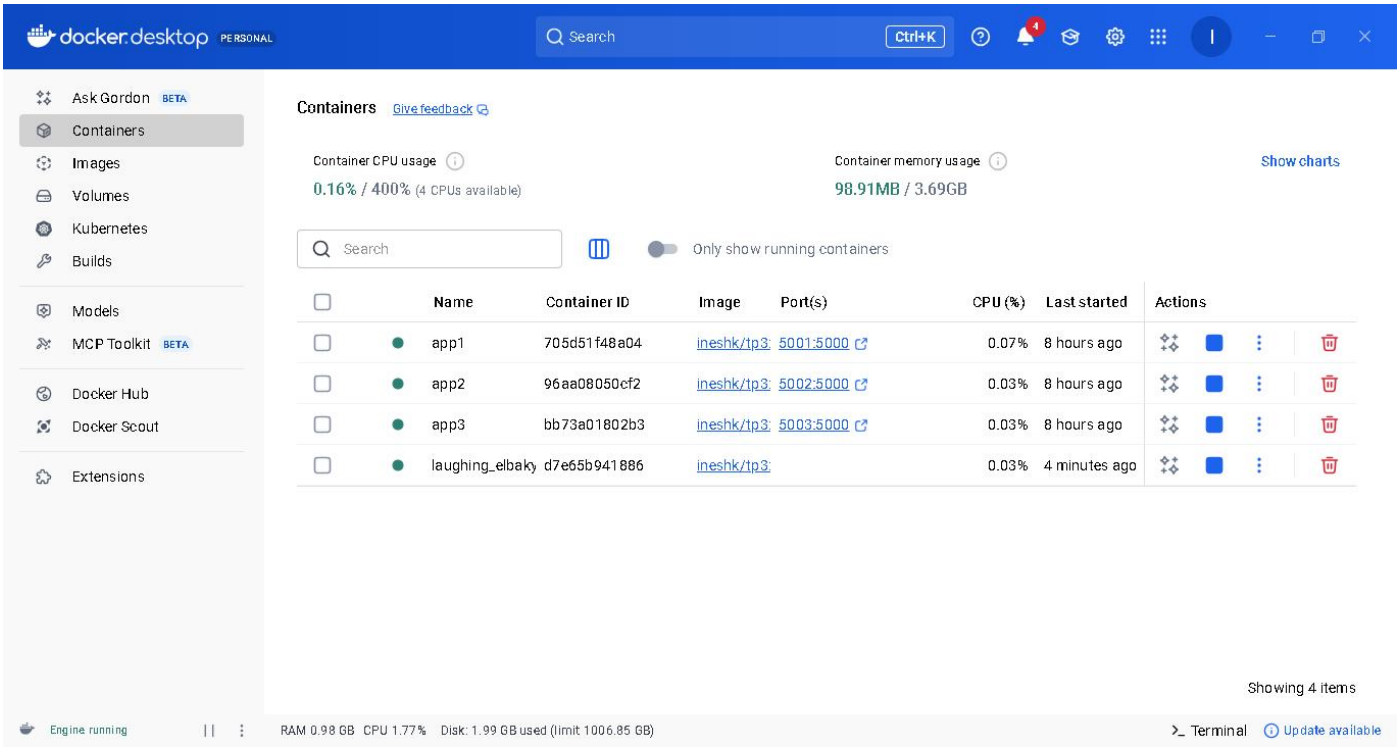
```
C:\Users\User\Documents\TP4>docker ps
CONTAINER ID   IMAGE          COMMAND          CREATED       STATUS       PORTS
      NAMES
bb73a01802b3   8b5668f84f1b   "python app.py"   8 hours ago   Up 8 hours
0.0.0.0:5003->5000/tcp, [::]:5003->5000/tcp   app3
96aa08050cf2   8b5668f84f1b   "python app.py"   8 hours ago   Up 8 hours
0.0.0.0:5002->5000/tcp, [::]:5002->5000/tcp   app2
705d51f48a04   8b5668f84f1b   "python app.py"   8 hours ago   Up 8 hours
0.0.0.0:5001->5000/tcp, [::]:5001->5000/tcp   app1

C:\Users\User\Documents\TP4>curl http://localhost:5001/
TP3 running in Docker!
C:\Users\User\Documents\TP4>curl http://localhost:5002/
TP3 running in Docker!
C:\Users\User\Documents\TP4>curl http://localhost:5003/
TP3 running in Docker!
C:\Users\User\Documents\TP4>docker network inspect tp3-net
[
    {
        "Name": "tp3-net",
        "Id": "258cbfe320ab4f9f53658e7bd1f98971c078ce9695f0a9570ea5c2dbd1d87ddd",
        "Created": "2025-11-05T00:20:00.164943614Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv4": true,
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": {},
            "Config": [
                {
                    "Subnet": "172.18.0.0/16",
                    "Gateway": "172.18.0.1"
                }
            ]
```

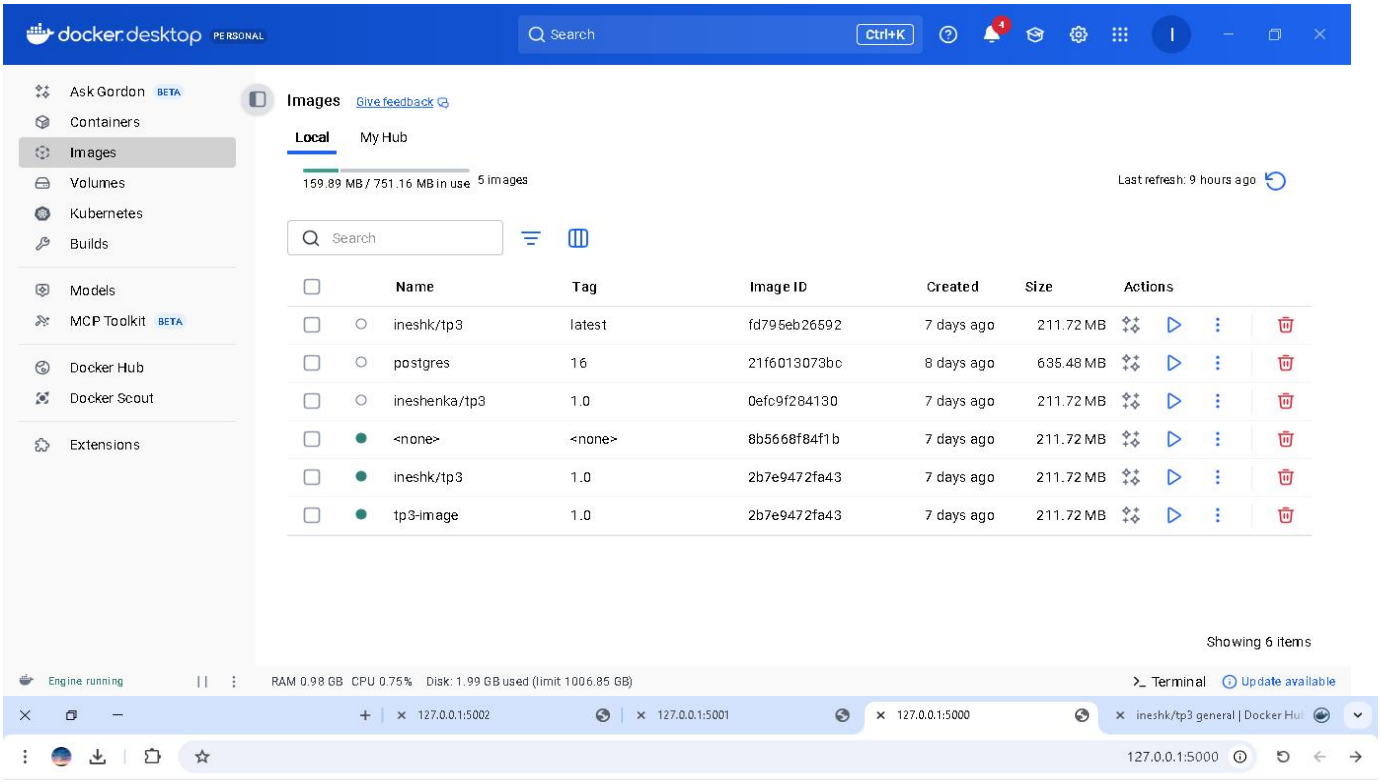
```
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {
            "705d51f48a04d2e863e28f352344fbf72ea0918a01cff6d9991b797244a6702c": {
                "Name": "app1",
                "EndpointID":
"5640e7c10e5e76a16808d85fc5d6167e118c1768bf28e0cfd49941ab23e4841e",
                "MacAddress": "9e:18:2b:d9:f0:52",
                "IPv4Address": "172.18.0.2/16",
                "IPv6Address": ""
            },
            "96aa08050cf2479b2b622f34c9da06215177de3dfd187bb972ac136993a07808":
{
                "Name": "app2",
                "EndpointID":
"67a75f0a81d479211721ce82283eaace9d34e6c0dcd00d10addd68782b609064",
                "MacAddress": "1e:a7:3a:46:f6:51",
                "IPv4Address": "172.18.0.3/16",
                "IPv6Address": ""
            },
            "bb73a01802b3931723fb7ce56dbd91983bb1e937dd5d051efeec841374206e0e":
{
                "Name": "app3",
                "EndpointID":
"adf9e2a2c753b3e370d5efa52196e401f8f483c750262be2898627a9474d47aa",
                "MacAddress": "1e:be:2c:b8:86:4c",
                "IPv4Address": "172.18.0.4/16",
                "IPv6Address": ""
            }
        },
```

```
        "Options": {
            "com.docker.network.enable_ipv4": "true",
            "com.docker.network.enable_ipv6": "false"
        },
        "Labels": {}
    }
]
```

Dockerfile :

```
FROM python:3.11-slim
WORKDIR /app
COPY requirements.txt ./
RUN pip install --no-cache-dir -r requirements.txt
COPY . .
EXPOSE 5000
CMD ["python","app.py"]
```





TP3 running in Docker!