

CN_LAB TASK 4

```
(anaconda3) ali@p180058:~$ sudo docker pull nginx
[sudo] password for ali:
Using default tag: latest
latest: Pulling from library/nginx
bb79b6b2107f: Pull complete
111447d5894d: Pull complete
a95689b8e6cb: Pull complete
1a0022e444c2: Pull complete
32b7488a3833: Pull complete
Digest: sha256:ed7f815851b5299f616220a63edac69a4cc200e7f536a56e421988da82e44ed8
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
(anaconda3) ali@p180058:~$ sudo docker image ls
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
nginx                latest             f35646e83998       2 weeks ago        133MB
praqma/network-multitool latest           3d7dc4b87032       6 weeks ago        220MB
mysql               latest           e1d7dc9731da       7 weeks ago        544MB
ubuntu             latest           4e2eef94cd6b       2 months ago       73.9MB
centos             latest           0d120b6ccaa8       2 months ago       215MB
(anaconda3) ali@p180058:~$ sudo docker network create customer
Error response from daemon: network with name customer already exists
(anaconda3) ali@p180058:~$ sudo docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
5c34026e261f        bridge             bridge             local
8de01d2f3e08        customer           bridge             local
958814e88695        host              host              local
a2eadb920ae5        none              null              local
9fbc22a3063f        production        bridge             local
(anaconda3) ali@p180058:~$ sudo docker container ls
CONTAINER ID        IMAGE               COMMAND              CREATED             STATUS             PORTS              NAMES
88a4d7ebfa997ebd7075a04e597cd854d3eaa914cc838bec8fa7ab62abeb7f8d
(anaconda3) ali@p180058:~$
(anaconda3) ali@p180058:~$
(anaconda3) ali@p180058:~$ sudo docker run --name cont2 -d -it --net customer nginx
10053a92c62199a21b936b5f3a929cf1bec17443f4e4434e145385b47ae26049
(anaconda3) ali@p180058:~$
(anaconda3) ali@p180058:~$ sudo docker run --name cont3 -d -it --net customer nginx
d65f1250f5314fbab37c5fe59a2b229487ac3c854995316af1fe4bcd086b7330
(anaconda3) ali@p180058:~$
(anaconda3) ali@p180058:~$ sudo docker run --name pcont1 -d -it --net production nginx
046c7a1fe7ea574c43e8dae921f6528e00a814ae5c79c1af0d43ee7e6c05fb3f
(anaconda3) ali@p180058:~$
(anaconda3) ali@p180058:~$ sudo docker run --name pcont2 -d -it --net production nginx
599e530bc691c4f417c5fdd61b16a38e19f5010e42b41db45b813e55dd6db7f6
(anaconda3) ali@p180058:~$
(anaconda3) ali@p180058:~$ sudo docker run --name pcont3 -d -it --net production nginx
00a47c816f551560675428d30694f3fd7f5886c339c13bf151fb8993d2140093
(anaconda3) ali@p180058:~$
```

```
root@046c7a1fe7ea:/#  
root@046c7a1fe7ea:/# apt install net-tools  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
net-tools is already the newest version (1.60+git20180626.aebd88e-1).  
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.  
root@046c7a1fe7ea:/#  
root@046c7a1fe7ea:/# apt install nano  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
nano is already the newest version (3.2-3).  
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.  
root@046c7a1fe7ea:/#  
root@046c7a1fe7ea:/# apt install python  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
python is already the newest version (2.7.16-1).  
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.  
root@046c7a1fe7ea:/#
```

```
GNU nano 3.2 connect.py  
  
import socket  
  
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM)  
s.bind(("172.18.0.2",1023))  
s.listen(5)  
  
while True:  
    clt,adr=s.accept()  
    stradr=str(adr)  
    print("connection to"+stradr+"is done")  
    string="placing an order"  
    arr=string.encode('utf-8')  
    clt.send(arr)
```

```
root@88a4d7ebfa99:/# python connect.py  
connection to('172.18.0.1',31268)established
```

```
root@046c7a1fe7ea:/# python connect.py  
making an order
```

```
(anaconda3) ali@p180058:~$ python connect.py  
connection to '172.18.0.2',, 28657)established
```