Задание:

1. Подготовьте рабочее окружение в соответствии с типом вашей операционной системы

Установите Docker

Выполните базовую настройку

```
[koxan@victusMonjaro ~]$ docker --version
Docker version 28.0.0, build f9ced58158
```

Докер установлен, но не работает. Перед **первым запуском команды Docker** необходимо запустить демон dcoker:

```
sudo systemctl start docker.service
```

Автоматический запуск демона при загрузке системы

```
sudo systemctl enable docker.service
```

Однако по умолчанию для выполнения команд **docker** необходимо использовать sudo. Чтобы избежать использования sudo при выполнении каждой команды **docker**, можно добавить себя (или любого другого пользователя) в группу **docker** следующим образом:

```
sudo usermod -aG docker $USER
```

Чтобы вышеуказанное изменение вступило в силу, необходимо выйти из системы (или закрыть терминал) и снова войти в нее. Если вы не хотите этого делать, воспользуйтесь следующей командой:

newgrp docker

Проверим работаспособность docker

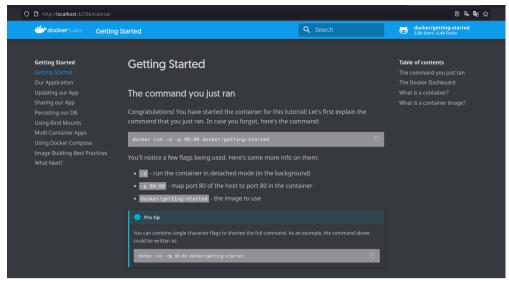
```
[koxan@victusMonjaro ~]$ docker run hello-world

Hello from Docker!

This message shows that your installation appears to be working correctly.
```

[koxan@victusMonjaro ~]\$ docker-compose -v
Docker Compose version 2.33.1

2. Создать собственный контейнер docker/getting-started, открыть в браузере и изучить tutorial



- 3. Создайте docker image, который запускает скрипт с использованием функций из https://github.com/smartiqaorg/geometric lib.
 - а. Данные необходимые для работы скрипта передайте любым удобным способом (например: конфиг файл через docker volume, переменные окружения, перенаправление ввода). Изучите простейшие консольные команды для работы с docker(см. лекцию). Зарегистрируйтесь на DockerHub и выберите необходимые для проекта образы
 - b. Создать Dockerfile для реализации сборки собственных Docker образов

Ниже реализация скрипта:

```
import square
import circle

sideSquare = float(input("Input square side: "))
radiusCircle = float(input("Input circle side: "))

print(f"Square area: {square.area(sideSquare)}")
print(f"Square perimeter: {square.perimeter(sideSquare)}")

print(f"Circle area: {circle.area(radiusCircle)}")

print(f"Circle perimeter: {circle.perimeter(radiusCircle)}")
```

Докерфайл:

```
FROM python
WORKDIR /app

COPY geometric_lib/circle.py circle.py
COPY geometric_lib/square.py square.py
COPY geometric_lib/main.py main.py

ENTRYPOINT ["python"]
CMD ["main.py"]
```

с. Использовать его для создания контейнера. Протестировать использование контейнера

перенаправление ввода:

```
[koxan@victusMonjaro Docker]$ ls
Dockerfile geometric_lib
[koxan@victusMonjaro Docker]$ docker build -t python_script:1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
           Install the buildx component to build images with BuildKit:
           https://docs.docker.com/go/buildx/
Sending build context to Docker daemon 7.61MB
Step 1/7 : FROM python
 ---> 36d17f72f4f3
Step 2/7 : WORKDIR /app
 ---> Running in 1ed62c6cebcc
 ---> Removed intermediate container 1ed62c6cebcc
---> 7eeadeabd38b
Step 3/7 : COPY geometric_lib/circle.py circle.py
 ---> fdebc23abc16
Step 4/7 : COPY geometric_lib/square.py square.py
---> f801be2b0670
Step 5/7 : COPY geometric_lib/main.py main.py
 ---> 3f6129387579
Step 6/7 : ENTRYPOINT ["python"]
 ---> Running in 7b73ca87da7b
 ---> Removed intermediate container 7b73ca87da7b
---> 40e59d4ac190
Step 7/7 : CMD ["main.py"]
 ---> Running in d1305acab156
 ---> Removed intermediate container d1305acab156
 ---> 3c44aa7675fa
Successfully built 3c44aa7675fa
Successfully tagged python_script:1
[koxan@victusMonjaro Docker]$ docker run --rm -it python_script:1
Input square side: 2
Input circle side: 2
Square area: 4.0
Square perimeter: 8.0
Circle area: 12.566370614359172
Circle perimeter: 12.566370614359172
```

4. Скачать любой доступный проект с GitHub с произвольным стеком технологий или использовать свой, ранее разработанный. Создать для него необходимый контейнер, используя Docker Compose для управления многоконтейнерными приложениями. Запустить проект в контейнере

на 3 контейнера:

Dockerfile backend:

```
RUN mkdir -p /app/expander
WORKDIR /app/expander
ADD ./expander/package.json ./package.json
ADD ./expander/package-lock.json ./package-lock.json
RUN npm install
ADD ./expander .
ADD ./lib ../lib
CMD [ "npm", "start" ]

EXPOSE 10000
```

Dockerfile frontend:

```
RUN npm install -g poi@9.6.8

RUN mkdir -p /app/shortener/server /app/shortener/client
ADD ./lib /app/lib

WORKDIR /app/shortener/client
ADD ./shortener/client .

RUN npm install && npm run build && rm -rf ./node_modules

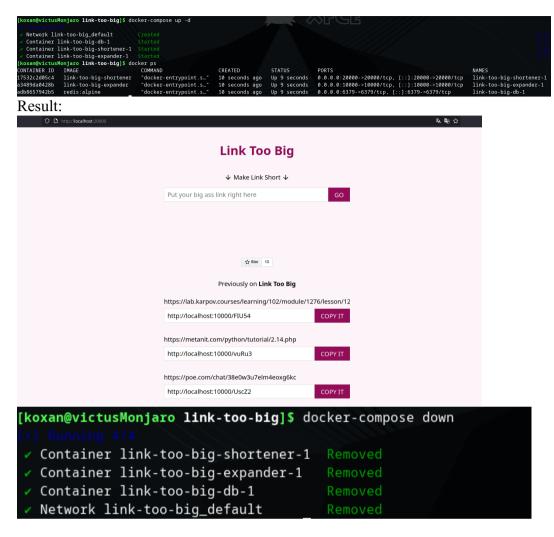
WORKDIR /app/shortener/server
ADD ./shortener/server .

RUN npm install

CMD [ "npm", "start" ]

EXPOSE 20000
```

Start:



5. Настроить сети и тома для обеспечения связи между контейнерами и сохранения данных (исходные данные, логин, пароль и т.д.)

Добавим в docker-compose.yml

Сеть оствим default:

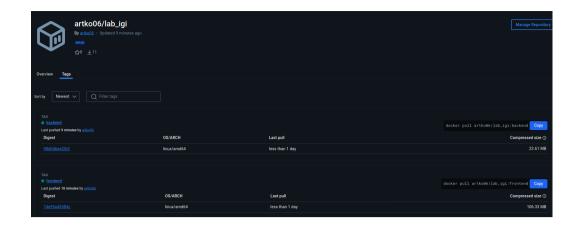
```
[koxan@victusMonjaro link-too-big]$ docker network ls | grep link-too-big
d01aac5108f1 link-too-big_default bridge local
```

6. Разместите результат в созданный репозиторий в DockerHub koxan@victusMonjaro link-too-big]\$ docker login USING WEB-BASED LOGIN f i Info f a To sign in with credentials on the command line, use 'docker login -u <username>' Your one-time device confirmation code is: ZCPQ-JHRD Press ENTER to open your browser or submit your device code here: https://login.docker.com/activate Waiting for authentication in the browser... WARNING! Your credentials are stored unencrypted in '/home/koxan/.docker/config.json'. Configure a credential helper to remove this warning. See https://docs.docker.com/go/credential-store/ Login Succeeded [koxan@victusMonjaro link-too-big]\$ docker images REPOSITORY TAG IMAGE ID CREATED SIZE link-too-big-shortener 41f936545b98 latest 41 hours ago 319MB 8bac7a165fcf/ 74.6MB

```
link-too-big-expander
                                                       41 hours ago
                        latest
                                         3c44aa7675fa
python_script
                                                       4 days ago
                                                                       1.02GB
                                        b52e0b094bc0
                                                       5 weeks ago
nginx
                        latest
                                                                      192MB
hello-world
                                        74cc54e27dc4
                                                        7 weeks ago
                        latest
                                                                       10.1kB
                        alpine
                                        8f5c54441eb9
redis
                                                        2 months ago
                                                                       41.4MB
                                        e83a01774710
                                                        3 months ago
python
                        3.10
                                                                       1GB
docker/getting-started
                        latest
                                        3e4394f6b72f
                                                                       46.9MB
                                                        2 years ago
wurstmeister/zookeeper
                                        3f43f72cb283
                                                                       510MB
                        latest
                                                       6 years ago
redis
                        5.0-rc-alpine
                                        be9a7e22e598
                                                       6 years ago
                                                                       40.8MB
postgres
                        10.5-alpine
                                        294f651dec48
                                                       6 years ago
                                                                       71.6MB
                                        8178c1b56170
                                                       7 years ago
wurstmeister/kafka
                        1.0.0
                                                                       272MR
[koxan@victusMonjaro link-too-big]$ docker tag link-too-big-shortener artko06/lab_igi:frontend
[koxan@victusMonjaro link-too-big]$ docker tag link-too-big-expander artko06/lab_igi:backend
```

```
koxan@victusMonjaro link-too-big]$ docker images
REPOSITORY
                         TAG
                                          IMAGE ID
                                                         CREATED
                                                                         SIZE
artko06/lab_iqi
                                         41f936545b98/
                                                         41 hours ago
                                                                         319MB
                         frontend
                                                                        319MB
link-too-big-shortener
                                          41f936545b98
                                                         41 hours ago
                         latest
artko06/lab_iqi
                         backend
                                         8bac7a165fcf 41 hours ago
                                                                        74.6MB
link-too-big-expander
                         latest
                                         8bac7a165fcf
                                                         41 hours ago
                                                                         74.6MB
```

```
[koxan@victusMonjaro link-too-big]$ docker push artko06/lab_igi:frontend
The push refers to repository [docker.io/artko06/lab_igi]
7959aba1bcfb: Pushed
be15aa465d85: Pushed
5f70bf18a086: Mounted from wurstmeister/zookeeper
dc251158d504: Pushed
4f76d8bbc951: Pushed
520832f772ff: Pushed
dd76a34d6b59: Pushed
7f6121921c6b: Pushed
365ccd918307: Mounted from library/node
1bba629c69e9: Mounted from library/node
139c1270acf1: Mounted from library/node
4693057ce236: Mounted from library/node
frontend: digest: sha256:74e93a43584ca766d7e5f474f3961f9fa2945070880db1b9c1af41c5d95104c4 size: 3032
[koxan@victusMonjaro link-too-big]$ docker push artko06/lab_igi:backend
The push refers to repository [docker.io/artko06/lab_igi]
6e242200bf9e: Pushed
b30720a6b29d: Pushed
81a2d5f2e99b: Pushed
7c5f62fb41e9: Pushed
784f341e778a: Pushed
5f70bf18a086: Layer already exists
c116dab6396c: Pushed
6b73202914ee: Mounted from library/node
9851b6482f16: Mounted from library/node
540b4f5b2c41: Mounted from library/node
6b27de954cca: Mounted from library/node
backend: digest: sha256:98d0d6eaf263aae5d410d59a90cdd00677f5363b49199f98fd56567451428cf3 size: 2610
```



7. Выполните следующие действия с целью изучить особенности сетевого взаимодействия:

Получить информацию о всех сетях, работающих на текущем хосте и подробности о каждом типе сети

[koxan@victusMonjaro ~]\$			network ls
NETWORK ID	NAME	DRIVER	SCOPE
74ef93f0b439	bridge	bridge	local
505d82fb34e7	host	host	local
c8bb6d92f8b6	none	null	local

```
[koxan@victusMonjaro ~]$ docker network inspect $(docker network ls -q)
       "Name": "bridge",
       "Id": "74ef93f0b4391e9b3212f0488a7ee0b850a14a3bd2aff6be3e55283492320771".
       "Created": "2025-03-07T22:16:14.400365051+03:00",
"Scope": "local",
       "Driver": "bridge",
       "EnableIPv4": true,
       "EnableIPv6": false,
       "IPAM": {
           "Driver": "default",
"Options": null,
            "Config": [
                    "Subnet": "172.17.0.0/16",
                    "Gateway": "172.17.0.1"
       "Internal": false,
       "Attachable": false,
       "Ingress": false,
       "ConfigFrom": {
    "Network": ""
        "ConfigOnly": false,
       "Containers": {},
       "Options": {
            "com.docker.network.bridge.default_bridge": "true",
            "com.docker.network.bridge.enable_icc": "true",
            "com.docker.network.bridge.enable_ip_masquerade": "true",
            "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
            "com.docker.network.bridge.name": "docker0",
            "com.docker.network.driver.mtu": "1500"
       },
"Labels": {}
     "Name": "host",
     "Id": "505d82fb34e745c4eccc27b1787ebd44009ccb0d6af36fb4ac5bd28af62a9fa4",
     "Created": "2025-03-07T21:48:34.772922578+03:00",
     "Scope": "local",
     "Driver": "host",
     "EnableIPv4": false,
     "EnableIPv6": false,
     "IPAM": {
         "Driver": "default",
         "Options": null,
         "Config": null
     "Internal": false,
     "Attachable": false,
     "Ingress": false,
    "ConfigFrom": {
    "Network": ""
     "ConfigOnly": false,
     "Containers": {},
     "Options": {},
     "Labels": {}
```

```
"Name": "none",
"Id": "c8bb6d92f8b61332768fce67bd598751f541ce819029adb7cb7080deca2f6671".
"Created": "2025-03-07T21:48:34.768652384+03:00",
"Scope": "local",
"Driver": "null",
"EnableIPv4": false,
"EnableIPv6": false,
"IPAM": {
    "Driver": "default",
    "Options": null,
    "Config": null
"Internal": false,
"Attachable": false,
"Ingress": false,
"ConfigFrom": {
    "Network": ""
"ConfigOnly": false,
"Containers": {},
"Options": {},
"Labels": {}
```

Создать свою собственную сеть bridge, проверить, создана ли она, запустить Docker-контейнер в созданной сети, вывести о ней всю информацию(включая IP-адрес контейнера), отключить сеть от контейнера

```
[koxan@victusMonjaro ~]$ docker network create custom_bridge
315540480d7aac643c1b43c132d5c51cd69d1e400274ae073805085a9fe574e7
[koxan@victusMonjaro ~]$ docker network ls
NETWORK ID
                  NAME
                                      DRIVER
                                                  SCOPE
74ef93f0b439
                                                  local
                  bridge
                                      bridge
315540480d7a
                  custom_bridge
                                      bridge
                                                  local
505d82fb34e7
                                                  local
                  host
                                      host
c8bb6d92f8b6
                                      null
                                                  local
                  none
[koxan@victusMonjaro ~]$ docker run -d --name networkApp --net custom_bridge nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
7cf63256a31a: Pull complete
bf9acace214a: Pull complete
513c3649bb14: Pull complete
d014f92d532d: Pull complete
9dd21ad5a4a6: Pull complete
943ea0f0c2e4: Pull complete
103f50cb3e9f: Pull complete
Digest: sha256:9d6b58feebd2dbd3c56ab5853333d627cc6e281011cfd6050fa4bcf2072c9496
Status: Downloaded newer image for nginx:latest
c5e8172649a02b1a43f8dbcc07eeea8a68de9c7a8b77085230013d7546bcb295
```

```
oxan@victusMonjaro ~]$ docker network inspect custom_bridge
          "Name": "custom_bridge"
          "Id": "315540480d7aac643c1b43c132d5c51cd69d1e400274ae073805085a9fe574e7",
          "Created": "2025-03-11T16:12:13.173112812+03:00",
"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": {
                "c5e8172649a02b1a43f8dbcc07eeea8a68de9c7a8b77085230013d7546bcb295": {
                      "Name": "networkApp"
                     "EndpointID": "2effc99fafbc95f813e19e56953a8fb44277b533bcf8158dc3e9563f47ba30bf",
"MacAddress": "8e:29:4d:e9:88:92",
"IPv4Address": "172.18.0.2/16",
                      "IPv6Address": ""
         "Labels": {}
                    ~]$ docker ps
COMMAND
CREATED
STATUS
PORTS

"/docker-entrypoint..." 7 minutes ago Up 7 minutes

~]$ docker network disconnect custom_bridge ac511fbcea42

~]$ docker network inspect custom_bridge | grep "Containers"
ONTAINER ID IMAGE
c511fbcea42 nginx
```

Создать еще одну сеть bridge, вывести о ней всю информацию, запустить в ней три контейнера, подключиться к любому из контейнеров и пропинговать два других из оболочки контейнера, убедиться, что между контейнерами происходит общение по IP-адресу

[koxan@victusMonjaro ~]\$ docker network create custom_bridge2
8728b96bf5adc4e35b3a1bee75bd49746eb5ca70a81bfba03ab4e90f91d912fa

```
koxan@victusMonjaro ~]$ docker network inspect custom_bridge2
                            "Name": "custom_bridge2",
                           "Id": "8728b96bf5adc4e35b3a1bee75bd49746eb5ca70a81bfba03ab4e90f91d912fa",
                           "Created": "2025-03-11T16:57:13.572774126+03:00",
                           "Scope": "local",
                           "Driver": "bridge",
                           "EnableIPv4": true,
                            "EnableIPv6": false,
                           "IPAM": {
                                         "Driver": "default",
                                         "Options": {},
                                         "Config": [
                                                                      "Subnet": "172.19.0.0/16",
                                                                      "Gateway": "172.19.0.1"
                           "Internal": false,
                           "Attachable": false,
                           "Ingress": false,
                           "ConfigFrom": {
                                         "Network": ""
                           "ConfigOnly": false,
                           "Containers": {},
                            "Options": {},
                            "Labels": {}
             }
]

[koxan@victusMonjaro ~]$ docker run -dit --rm --name nginx_l --net custom_bridge2 -p 8000:80 nginx:latest
8e72a34a61ec1752412a800c27adcedecf375e9339bf5eb9feaab0af917a11f6
[koxan@victusMonjaro ~]$ docker run -dit --rm --name nginx_l --net custom_bridge2 -p 8001:80 nginx:latest
docker: Error response from daemon: Conflict. The container name "/nginx_l" is already in use by container "8e72a34a61ec1752412a800c27adcede
ab9feaab0af917a11f6". You have to remove (or rename) that container to be able to reuse that name.
Run 'docker run --help' for more information
[koxan@wictusMonjaro ~]$ docker run -dit --rm --name nginx_2 --net custom_bridge2 -p 8001:80 nginx:latest
928b44786479ce6091df19f47adf601b813013d0447f74cce010f0156ed26e9d
 koxan@victusMonjaro ~]$ docker run -dit --rm --name nginx_3 --n
5f3106b3ccb8f30cb74ceaa716230527b9951c2b10746ddfc1212a29daf1691
                                                                                                                                   -net custom_bridge2 -p 8002:80 nginx:latest
 | STATUS | NORTH-IN-TERMINATION | NORTH-IN-TE
                                                                                                                                                                                                                                                                                   NAMES
                                                                                                                                                                                                                                                                                  nginx_3
nginx_2
nginx_1
3e72a34a61ec
[koxan@victusMonjaro ~]$ docker network inspect custom_bridge2 | grep -A 40 "Containers'
                              "8e72a34a61ec1752412a800c27adcedecf375e9339bf5eb9feaab0af917a11f6": {
                                        /Za34ableC1/5241Za800C2/adcedect3/5e9339bT5eb9Teaab0aT91/allTo : {
    "Name": "nginx_1",
    "EndpointID": "9b2598cc20565a44bb949a8ef4342140a60e4ae3bdc24851fb6c133567b52ad1",
    "MacAddress": "3a:d6:3e:c3:d8:b3",
    "IPv4Address": "172.19.0.2/16",
    "IPv6Address": "172.19.0.2/16",
                              },
"928b44786479ce6091df19f47adf601b813013d0447f74cce010f0156ed26e9d": {
                                         "Name": "nginx_2",
                                        "EndpointID": "a9ca36145c24dc55680cc422feccb52b1eba1a03e56d515839992577b170cea5",
"MacAddress": "26:21:8e:df:21:86",
"IPv4Address": "172.19.0.3/16",
"IPv6Address": ""
                              },
"f5f3106b3ccb8f30cb74ceaa716230527b9951c2b10746ddfc1212a29daf1691": {
                                        "Name": "nginx_3",
"EndpointID": "22edfc25009b45209456f115571b8982828bf3a88037b61558508e24b9961268",
"MacAddress": "7a:89:02:98:43:70",
"IPv4Address": "172.19.0.4/16",
"IPv6Address": ""
```

nginx $1 \rightarrow \text{nginx } 2(172.19.0.3) \text{ u nginx } 3(172.19.0.4)$

```
[koxan@victusMonjaro ~]$ docker exec -it nginx_1 bash
root@8e72a34a61ec:/# ping 172.19.0.3
PING 172.19.0.3 (172.19.0.3) 56(84) bytes of data.
64 bytes from 172.19.0.3: icmp_seq=1 ttl=64 time=0.103 ms
64 bytes from 172.19.0.3: icmp_seq=2 ttl=64 time=0.095 ms
64 bytes from 172.19.0.3: icmp_seq=3 ttl=64 time=0.104 ms
64 bytes from 172.19.0.3: icmp_seq=4 ttl=64 time=0.105 ms
64 bytes from 172.19.0.3: icmp_seq=5 ttl=64 time=0.105 ms
64 bytes from 172.19.0.3: icmp_seq=6 ttl=64 time=0.105 ms
64 bytes from 172.19.0.3: icmp_seq=7 ttl=64 time=0.096 ms
۸C
--- 172.19.0.3 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6086ms
rtt min/avg/max/mdev = 0.095/0.101/0.105/0.004 ms
root@8e72a34a61ec:/# ping 172.19.0.4
PING 172.19.0.4 (172.19.0.4) 56(84) bytes of data.
64 bytes from 172.19.0.4: icmp_seg=1 ttl=64 time=0.106 ms
64 bytes from 172.19.0.4: icmp_seq=2 ttl=64 time=0.112 ms
64 bytes from 172.19.0.4: icmp_seq=3 ttl=64 time=0.119 ms
64 bytes from 172.19.0.4: icmp_seq=4 ttl=64 time=0.099 ms
64 bytes from 172.19.0.4: icmp_seq=5 ttl=64 time=0.070 ms
64 bytes from 172.19.0.4: icmp_seq=6 ttl=64 time=0.081 ms
64 bytes from 172.19.0.4: icmp_seq=7 ttl=64 time=0.111 ms
AC
--- 172.19.0.4 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6061ms
rtt min/avg/max/mdev = 0.070/0.099/0.119/0.016 ms
```

Создать свою собственную сеть overlay, проверить, создана ли она, вывести о ней всю информацию

```
[koxan@victusMonjaro ~]$ docker swarm init
Swarm initialized: current node (mrh799vcye7jia5aryqfh03ov) is now a manager.
To add a worker to this swarm, run the following command
      docker swarm join --token SWMTKN-1-45pifoae0olo23btxc79uxqhxum4vsl51of4i5rt2s678ap7ze-82d9wnu231mhsltr52r6fbx5v 192.168.0.103:2377
To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
[koxan@victusMonjaro ~]$ docker network create --driver overlay my_overlay_network
[koxan@victusMonjaro ~]$ d
kx48rslpi1065ykape43rngtu
KX4Brsipli0bsykape43rngtu
||Koxam@victusMonjaro ~|$ docker network ls

NETWORK ID NAME DRIVER

74ef9376b439 bridge bridge

3155404880d7a custom_bridge bridge

8728896bf5ad custom_bridge2 bridge
                                                                           local
                                                                           local
715fa1ac689c
505d82fb34e7
uvrd4qcf4dlx
                        docker_gwbridge
                                                           bridge
                                                                           local
                      ingress
                                                           overlay
                                                                           swarm
 x48rslpi106
:8bb6d92f8b6
                     my_overlay_network
none
                                                           overlay
null
```

```
[koxan@victusMonjaro ~]$ docker network inspect my_overlay_network
        "Name": "my_overlay_network",
        "Id": "kx48rslpi1065ykape43rngtu",
        "Created": "2025-03-11T17:13:00.427328257Z",
        "Scope": "swarm",
"Driver": "overlay",
        "EnableIPv4": false,
        "EnableIPv6": false.
        "IPAM": {
            "Driver": "default",
            "Options": null,
            "Config": [
                     "Subnet": "10.0.1.0/24",
                     "Gateway": "10.0.1.1"
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
    "Network": ""
        "ConfigOnly": false,
        "Containers": null,
        "Options": {
             "com.docker.network.driver.overlay.vxlanid_list": "4097"
        "Labels": null
```

Создать еще одну сеть overlay, проверить, создана ли она, вывести о ней всю информацию, удалить сеть

```
[koxan@victusMonjaro ~]$ docker network create --driver overlay my_overlay_network2
dqi8hw6zv9f57djhjlyewdn5z
[koxan@victusMonjaro ~]$ docker network ls
NETWORK ID
               NAME
                                     DRIVER
                                                SCOPE
               bridge
74ef93f0b439
                                     bridge
                                                local
315540480d7a
               custom_bridge
                                                local
                                     bridge
8728b96bf5ad
               custom_bridge2
                                     bridge
                                                local
715fa1ac689c
                                     bridge
                                                local
               docker_gwbridge
505d82fb34e7
               host
                                     host
                                                local
uvrd4qcf4dlx
               ingress
                                      overlay
                                                swarm
kx48rslpi106
               my_overlay_network
                                      overlay
                                                swarm
dqi8hw6zv9f5
               my_overlay_network2
                                      overlay
                                                swarm
c8bb6d92f8b6
               none
                                      nu11
                                                local
```

```
koxan@victusMonjaro ~]$ docker network inspect my_overlay_network2
        "Name": "my_overlay_network2",
        "Id": "dqi8hw6zv9f57djhjlyewdn5z",
        "Created": "2025-03-11T17:17:03.739771718Z",
        "Scope": "swarm",
        "Driver": "overlay",
        "EnableIPv4": false,
        "EnableIPv6": false,
        "IPAM": {
           "Driver": "default",
           "Options": null,
           "Config": [
                   "Subnet": "10.0.2.0/24",
                   "Gateway": "10.0.2.1"
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
    "Network": ""
        "ConfigOnly": false,
        "Containers": null,
        "Options": {
           "com.docker.network.driver.overlay.vxlanid_list": "4098"
        "Labels": null
[koxan@victusMonjaro ~]$ docker network rm my_overlay_network2
my_overlay_network2
[koxan@victusMonjaro ~]$ docker network ls
NETWORK ID
                 NAME
                                           DRIVER
                                                       SCOPE
74ef93f0b439
                 bridge
                                           bridge
                                                       local
                  custom_bridge
315540480d7a
                                           bridge
                                                       local
8728b96bf5ad
                 custom_bridge2
                                                       local
                                           bridge
715fa1ac689c
                 docker_gwbridge
                                           bridge
                                                       local
505d82fb34e7
                 host
                                           host
                                                       local
uvrd4qcf4dlx
                  ingress
                                           overlay
                                                       swarm
```

Попробовать создать сеть host, сохранить результат в отчет.

my_overlay_network

none

kx48rslpi106

c8bb6d92f8b6

[koxan@victusMonjaro ~]\$ docker network create --driver host my_host_network Error response from daemon: only one instance of "host" network is allowed

overlay

null

swarm

local