# Create 2 bridge network, "network1" with subnet 192.168.0.0/24 & "network2" with subnet 10.5.0.0/24

```
younis@younis-HP-ProBook-450-G2: ~/Sprints_Tasks/DOCKE...
younis@younis-HP-ProBook-450-G2:~/Sprints Tasks/DOCKER01/Task03$ sudo docker net
work create --driver bridge --subnet 192.168.0.0/24 network1
[sudo] password for younis:
40fe5111804cc3940382f98c5891aac8fc743a8118c209f3a4d920973fafed29
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker net
work create --driver bridge --subnet 10.5.0.0/24 network2
bea42e077738af60edf7c39a6662aab0557a71092428a20a05475bb9f2576f62
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker net
work ls
NETWORK ID
                         DRIVER
                                   SCOPE
              NAME
7f0a6394be82
              bridge
                         bridge
                                   local
60e5f246b011
              host
                         host
                                   local
40fe5111804c
              network1 bridge
                                  local
bea42e077738 network2
                         bridge
                                  local
5d13d1c90920 none
                         null
                                   local
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$
```

## Run 2 containers "container1, container2" and attach them to network1. & Run container "container3" and attach it to network2

```
younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/DOCKER01/Task03 Q = - 0 ×

younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/BOCKER01/Task03S sudo docker run -d --name container1 --network network1 nginx abcddsa1d7cf28919b504419c431380786dedf034d26f99aeb90f543ee403d9e9 younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/BOCKER01/Task03S sudo docker run -d --name container2 --network network1 nginx ef87aec4ad874ef39d02b99b8829316c070a57332151424138405379b2e07e95 younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/BOCKER01/Task03S sudo docker run -d --name container3 --network network2 nginx 9aa9091d64c9b8ecfd73edf74c/977se1204f683270ec2b114899ed8b9b82c075 younts@younts-HP-ProBock-450-G2:-/Sprints_Tasks/BOCKER01/Task03S sudo docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES OF PORTS NAMES SUDOCKER01/Task03S sudo docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES Added Paginx "/docker-entrypoint...." 14 seconds ago Up 31 seconds 80/tcp container3 ef87aec4ad87 nginx "/docker-entrypoint...." 46 seconds ago Up 32 seconds 80/tcp container1 younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/UOCKER01/Task03S sudo docker inspect container1 | grep network "NetworkHode: "inetworl", "docker-entrypoint..." 40 seconds ago Up 33 seconds 80/tcp container1 | grep network "NetworkHode: "inetworl", "setworl": "(younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/UOCKER01/Task03S sudo docker inspect container2 | grep network "NetworkHode: "inetworl", "setworl": "(younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/UOCKER01/Task03S sudo docker inspect container3 | grep network "NetworkHode: "inetworl", "setworl"; "(younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/UOCKER01/Task03S sudo docker inspect container3 | grep network "NetworkHode: "inetworl", "(younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/UOCKER01/Task03S sudo docker inspect container3 | grep network "NetworkHode: "inetworl", "(younts@younts-HP-ProBook-450-G2:-/Sprints_Tasks/UOCKER01/Task03S sudo docker inspect container3 | grep network "NetworkHode: "Inetworl", "(yo
```

### Make sure that the containers at different network can't ping each other

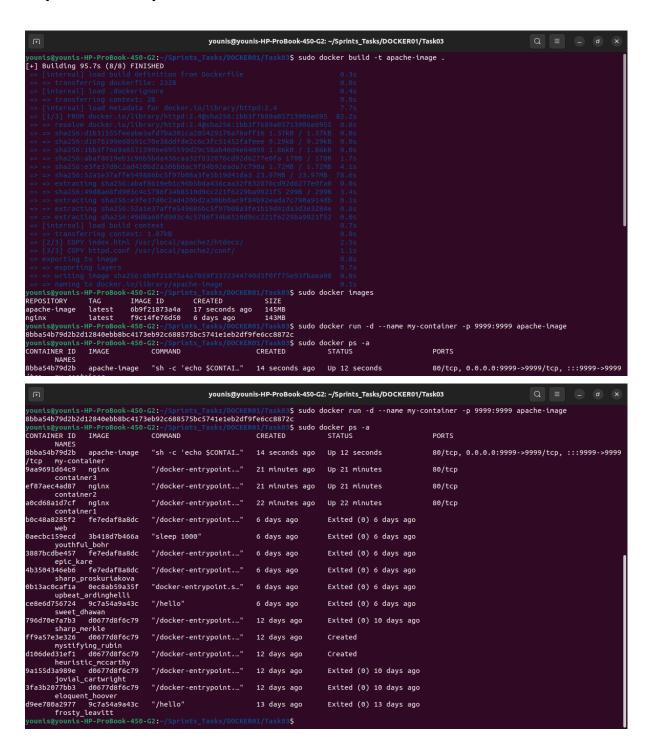
```
younis@younis-HP-ProBook-450-G2: ~/Sprints_Tasks/DOCKE...
                                                                       Q
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker ins
pect container1 | grep IPAddress
              eri | 5
"SecondaryIPAuc
"Secondary": ""
                                    ses": null,
                                   ss": "192.168.0.2",
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker ins
pect container2 | grep IPAddress
              er2 | g
"SecondaryIPAdu
"Aress": ""
                                   sses": null,
"IPAddress": "",
"IPAddress": "192.168.0.3",
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker ins
               er3 | g.
"SecondaryIPAddi
"SecondaryIPAddi
pect container3 | grep IPAddress
                                   sses": null.
                                  ss": "10.5.0.2",
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker exe
c container1 curl 10.5.0.2:80
  % Total
               % Received % Xferd Average Speed
                                                           Time
                                                                     Time
                                                                               Time Current
                                                                               Left Speed
                                       Dload Upload
                                                           Total
                                                                     Spent
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker exe
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker exe
c container1 curl 192.168.0.3:80
  % Total
               % Received % Xferd Average Speed
                                                           Time
                                                                     Time
                                                                               Time Current
                                       Dload Upload
                                                         Total Spent
                                                                               Left Speed
```

```
younis@younis-HP-ProBook-450-G2: ~/Sprints_Tasks/DOCKE...
                                                     Q
younis@younis-HP-ProBook-450-G2:~/Sprints_Tasks/DOCKER01/Task03$ sudo docker exe
c container1 curl 192.168.0.3:80
           % Received % Xferd Average Speed
                                                           Time Current
 % Total
                                           Time
                                                   Time
                             Dload Upload Total
                                                           Left Speed
                                                   Spent
100
    615 100 615 0
                         0 600k
                                       0 --:--:--
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<stvle>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nainx.com/">nainx.com</a>.
```

#### Create static html file --> index.html

#### **Dockerfile --> Dockerfile**

## httpd file --> Httpd



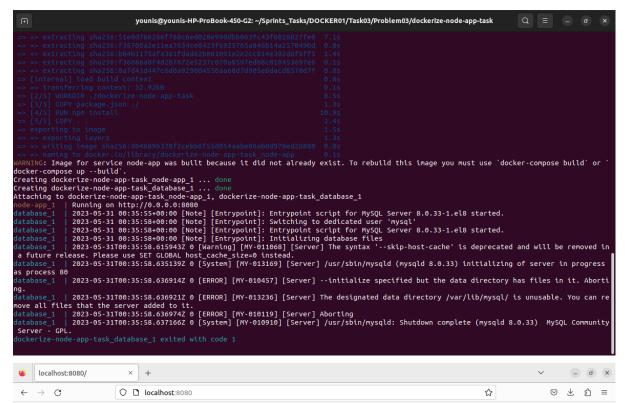


#### welcome in my page

Create a docker compose to up mysql container and https://github.com/sabreensalama/dockerize-node-app-task which depend on mysqldb.Add volume for mysqldb

Dockerfile --> Dockerfile

docker-compose.yml --> docker-compose.yml



Hello World

# Use docker compose to deploy ghost platform (image: ghost:1-alpine), Use mysql database instead of sqlite

```
younts@younis-HP-ProBook-450-G2: ~/Sprints_Tasks/DOCKER01/Task03/Problem04 Q = - @ x

younts@younts-HP-ProBook-450-G2: ~/Sprints_Tasks/DOCKER01/Task03/Problem04$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

05f00861478e ghost:1-alpine "docker-entrypoint.s..." 3 minutes ago Exited (1) 3 minutes ago
0c2a460ea176 mysql:5.7 "docker-entrypoint.s..." 3 minutes ago Exited (0) 12 seconds ago
```