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Cse-DevOps b1

EXPERIMENT-3

Aim- To create Docker network and attach it with Containers for connectivity.

To create your own network use command **docker network create <network-name>**. To see all the existed network use command **docker network ls**.

```
🖭 vagrant@ubuntu-xenial: ~
`[[A^[[A^[[Error response from daemon: pull access denied for network, repository does not exist or is denied
agrant@ubuntu-xenial:~$ docker network create network1
e3ff378918a4e0e2a6d8a24e6515ba2835b364d0062be79a76ff8da0b82a543e
/agrant@ubuntu-xenial:~$ docker network ls
              NAME
                          DRIVER
NETWORK ID
                                     SCOPE
7c538d067ef
              bridge
                          bridge
                                     local
0b5d21558b69 host
                          host
                                     local
3ff378918a4
              network1
                          bridge
                                     local
76baf2fd716
               none
```

To launch a container inside a network use option --net=<network-name> while launching a container.

```
ogrant@ubuntu-xenial:~$ docker run -dit --name dockl --net networkl alpine
9574d5f93101b7ec7cea33d121a8360540fab3040c2da51769ea3e3ffd40032
ggrant@ubuntu-xenial:-$ docker ps
DNTAINER ID IMAGE COMMANID CREATED STATUS PORTS
9574d5f9310 alpine "∫bin/sh" 23 seconds ago Up 22 seconds
ggrant@ubuntu-xenial:-$ docker inspect 1a2
                No such object: 1a2
@ubuntu-xenial:∼$ docker inspect 90574d5f0310
                      Id": "9957445f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3ffd40032",
reated': "2021-02-18104:34:34.1492356622",
lath: "/bln/sh",
                                  ead': faise;
dim': 14680,
xitCode': 0,
rron": "",
tartedAtt": "2021-02-18T04:34:34.580840769Z",
inishedAt": "0001-01-01T00:00:00Z"
                                 ": "sha256:28f6e27057430ed2a40dbdd50d2736a3f0a295924016e294938110eeb8439818",
vConfPath": "/var/lib/docker/containers/90574d5f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3ffd40032/resolv.conf",
namePath": "/var/lib/docker/containers/90574d5f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3ffd40032/hostname",
Path": "/var/lib/docker/containers/90574d5f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3ffd40032/hostname",
path": "/var/lib/docker/containers/90574d5f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3ffd40032/90574d5f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3ffd40032/90574d5f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3ffd40032/90574d5f03101b7ec7cea33d121a8360549fab3040c2da51769ea3e3
                 -mountLabel": "",
"ProcessLabel": "",
"AppArmorProfile": "docker-default",
"ExecIDs": null,
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                                                                                                                                                                                                                                                                                                                                                                                       ^ @ 10:06 ENG 10:06 ■ ( 4) IN 18-02-2021
                                                   ], "BoSNadSido" |
], "letworkID": "e3ff378918a4e0e2a6d8a24e6515ba2835b364d0062be79a76ff8da0b82a543e", 
"IndpointID": "d323c944760583db534ca2d57adb61982c1b4f3226ddec3983d7dc4d350544b9", 
"Gateway": "172.18.0.1", 
"IPAddress": "172.18.0.2", 
"IPPrefixLen": 16, 
"IPV6Gateway": "", 
"GlobalIPv6Address": "", 
"GlobalIPv6Address": ", 
"GlobalIPv6Address": ", 
"RacAddress": "02:42:ac:12:00:02", 
"DriverOpts": null
# \wp Type here to search
                                                                                                                                                                                                                                                                                                                                                                                       ^ @ ' (€ Φ) ENG 10:06 ■
```

To see the network details of the container and check if it is inside the specified network use command **docker inspect**.

