Module-5: Networking and Security

Demo Document - 1

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DEMO-1: User-defined Bridge Network

Note: All commands are executed as root.

1. To create a user-defined bridge network:

```
$ docker network create --driver bridge <networkName>
```

```
root@docker-1:~# docker network create --driver bridge mybridge
3c6eff7a7139cad2d699e105e93fb6bff30df946dc816ed6a190e425e97560ce
```

2. You can list the networks working in your system:

```
$ docker network ls
```

```
NETWORK ID          NAME                DRIVER              SCOPE
646251da9ee9        bridge              bridge              local
4ade9c9deb87        docker_gwbridge     bridge              local
8007bfe35676        host                host                local
lnjs1ov80kho        ingress             overlay             swarm
3c6eff7a7139        mybridge            bridge              local
5892f118f3b1        none                null                local
```

3. To start a container with the new network:

```
$ docker create --name <containerName> \
  --network mybridge \
  --publish 8002:80 \
  nginx
```

```
root@docker-1:~# docker create --name nginx2 \
> --network mybridge \
> --publish 8002:80 \
> nginx
c02eca6cf515cdaf950a27e82be84461b25678109904d22441fc3a5aee51ad0f
```

4. To attach the network to an existing container:

```
$ docker network connect <networkName> <containerName>
```

```
root@docker-1:~# docker network connect  mybridge nginx1
root@docker-1:~#
```

```
"mybridge": {
    "IPAMConfig": {},
    "Links": null,
    "Aliases": [
        "47a3cf909028"
    ],
    "NetworkID": "3c6eff7a7139cad2d69
    "EndpointID": "96eb646eef2de90481
    "Gateway": "172.20.0.1",
    "IPAddress": "172.20.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "MacAddress": "02:42:ac:14:00:02"
    "DriverOpts": {}
}
```

5. To remove a network:

```
$ docker network rm <networkName>
```

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