# Lesson 05 Demo 01

# Creating a Docker Bridge Network

**Objective:** To create a bridge network to enable communication between Docker containers running on different networks

**Tools required:** Docker

**Prerequisites:** None

Steps to be followed:
1. Create a default network in Docker
2. Inspect the network for the network driver

## Step 1: Create a default network in Docker

1.1 Use the following command to create a network:

**sudo docker network create mynetwork1**

```
labsuser@ip-172-31-29-216:~$ sudo docker network create mynetwork1
a5204638cdf7008115e2495d4a2122c5ea4185b44edc97bf7f351b6e5fa8411e
labsuser@ip-172-31-29-216:~$
```

1.2 Use the following command to list the current networks:

**sudo docker network ls**

```
labsuser@ip-172-31-29-216:~$ sudo docker network ls
NETWORK ID      NAME            DRIVER      SCOPE
2f56d472c718    bridge          bridge      local
632f85a89d48    host            host        local
a5204638cdf7    mynetwork1      bridge      local
d3f0f348b5ab    none            null        local
labsuser@ip-172-31-29-216:~$
```

## Step 2: Inspect the network for the network driver

2.1 Use the following command to inspect the network:
**sudo docker network inspect mynetwork1**

```
labsuser@ip-172-31-29-216:~$ sudo docker network inspect mynetwork1
[
    {
        "Name": "mynetwork1",
        "Id": "a5204638cdf7008115e2495d4a2122c5ea4185b44edc97bf7f351b6e5fa8411e",
        "Created": "2021-01-12T22:50:08.710111147Z",
        "Scope": "local",
        "Driver": "bridge",
        "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": {},
        "Options": {},
        "Labels": {}
    }
]
labsuser@ip-172-31-29-216:~$
```

> **Note:** A bridge driver is the default driver that automatically gets installed and configured while creating a network.

By following these steps, you have successfully created a bridge network that will allow you to communicate between Docker containers running on different networks.