



# **Experiment No. 3.1**

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**Branch:** MCA–CCD

**Semester: III** 

**Subject Name: CONTAINERIZATION** 

WITH DOCKER

**UID:** 22MCC20177

**Section/Group:** MCD-1/A

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## 1. Aim/Overview of the practical:

a) Working with Docker Compose.

## 2. Code for practical: (a)

- **Step 1:** Compose is a tool for defining and running multi-container Docker applications.
- **Step 2:** If you want to run multi-container Docker applications with one command and simplify the process, we create a docker-compose file.
- **Step 3:** Go to that directory and create a file docker-compose.yml.





### **Step 4:** Check the validity of docker-compose file.

```
S C:\Users\Pinda\Desktop\Docker\DockerComposeFile> docker-compose config
name: dockercomposefile
services:
 database:
   image: mysql
networks:
default: null
    image: nginx
   networks:
default: null
   ports:
     mode: ingress
     target: 80
published: "9090"
     protocol: tcp
    - type: bind
      source: C:\Users\Pinda\Desktop\Docker\DockerComposeFile\templates
      target: /etc/nginx/templates
      bind:
       create_host_path: true
etworks:
 default:
   name: dockercomposefile_default
```

#### **Step 5:** Run docker-compose.yml file.

```
PS C:\Users\Pinda\Desktop\Docker\DockerComposeFile> docker-compose up -d
 ✓ Network dockercomposefile_default

    Container dockercomposefile-web-1

                                           Started

→ Container dockercomposefile-database-1 Started
PS C:\Users\Pinda\Desktop\Docker\DockerComposeFile> docker ps
CONTAINER ID
              IMAGE
                         COMMAND
                                                                                                                   NAMES
                                                  CREATED
                                                                       STATUS
                                                                                           PORTS
588a71f85df7
                         "/docker-entrypoint..."
                                                                                           0.0.0.0:9090->80/tcp
               nginx
                                                  About a minute ago
                                                                       Up About a minute
                                                                                                                   docker
composefile-web-1
```

#### **Step 6:** To stop docker-compose.