

## Experiment No. 1.3

**Student Name:** Parvinder Singh

**UID:** 22MCC20043

**Branch:** MCA - CCD

**Section/Group:** 22MCD-1/ Grp B

**Semester:** III

**Subject Name:** Containerization With Docker

**Subject Code:** 22CAH-742

**1. Aim/Overview of the practical: Deploy Docker images as the stateless container.**

**2. Code for experiment/practical:**

To deploy Docker images as stateless containers, you can use a container orchestration platform such as Kubernetes or Docker Swarm. These platforms allow you to manage multiple containers across multiple hosts, and they provide features that make it easy to deploy stateless applications, such as:

- Automatic scaling: The platform can automatically scale the number of containers running your application up or down based on demand.
- Load balancing: The platform can distribute traffic across multiple containers running your application.
- Self-healing: If a container fails, the platform can automatically restart it on another host.

**Steps to Deploy images as the stateless container:**

- `docker pull image_name`  
for Ex: `docker pull nginx`

```
PS C:\Users\Pinda> docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
578acb154839: Pull complete
e398db710407: Pull complete
85c41ebe6d66: Pull complete
7170a263b582: Pull complete
8f28d06e2e2e: Pull complete
6f837de2f887: Pull complete
c1dfc7e1671e: Pull complete
Digest: sha256:86e53c4c16a6a276b204b0fd3a8143d86547c967dc8258b3d47c3a21bb68d3c6
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
```

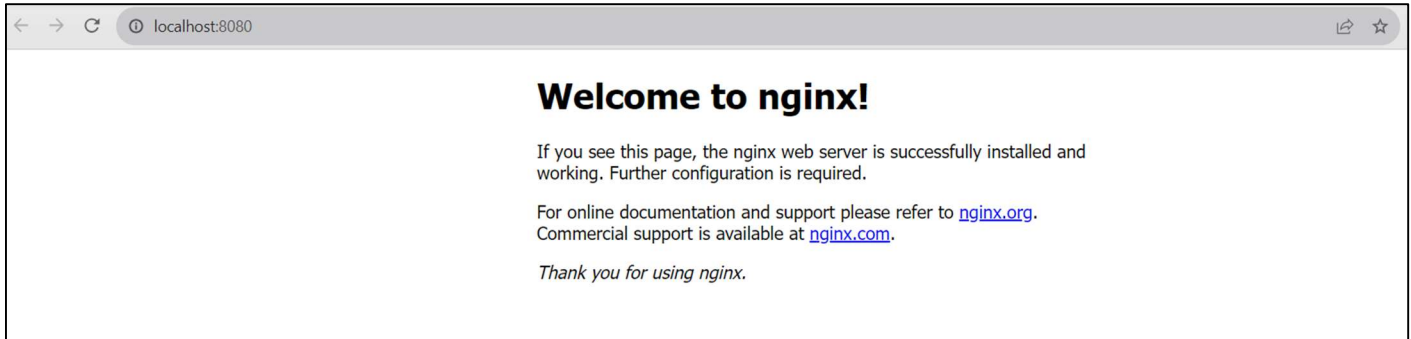
**What's Next?**

View summary of image vulnerabilities and recommendations → [docker scout quickview nginx](#)

- `docker run --name some-nginx -d -p 8080:80`

```
PS C:\Users\Pinda> docker run --name some-nginx -d -p 8080:80 nginx  
b5b4911e40d7818629a3e156079723b5d7133471e0c09f31043e4319d36f4cf6
```

- Go to browser localhost:8080



### 3. Learning outcomes (What I have learned):

- a) To pull image from Dockerhub.
- b) To run Docker image on localhost port.
- c) Understand to use Docker Images commands.