COMSATS UNIVERSITY ISLAMABAD

ATTOCK CAMPUS

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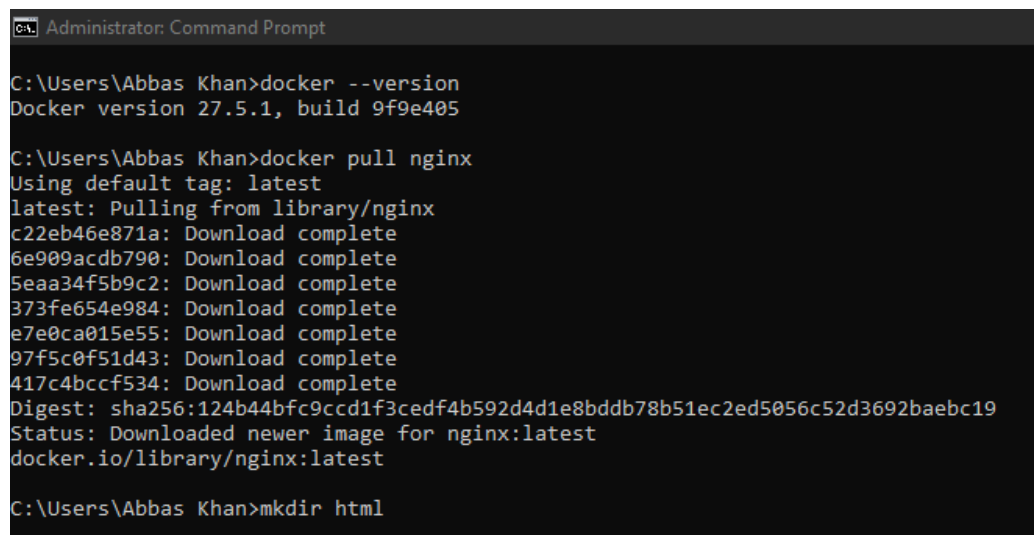**Subject:** DevOps for Cloud Computing

Assignment: 2

Date: 5th April 2025

Solution:

- **Image pulling:**

  "docker pull nginx:latest"

  I ran the first command to pull the official nginx image from the Docker hub.

- **Directory and file creation:**
  1. "mkdir html"
  2. ">echo "\<html>\<body>\<h1>hello this is SP22-bse-020\</h1>\<h2>welcome to my dockerized nginx sever!\</h2>\</body>\</html>" >index.html"

I ran these two commands for creating the html directory and creating an html file with the written content in it respectively.

```
C:\Users\Abbas Khan>mkdir html

C:\Users\Abbas Khan>cd html

C:\Users\Abbas Khan\html>echo "<html><body><h1>hello this is SP22-bse-020</h1><h2>welcome to my dockerized nginx sever!</h2></body></html>" >index.html

C:\Users\Abbas Khan\html>cd ..
```

- **Mapping & Running NGINX**
  "docker run --name abbas-nginx -v "C:\Users\Abbas khan\html:\usr\share\nginx\html:ro" -d -p 80:80 nginx"

  I ran this command to first map my own html volume to the html volume of the nginx server and then run the container.

  I named my container as abbas-nginx, as it is easier for me to remember.

```
C:\Users\Abbas Khan>docker run --name abbas-nginx -v "C:\Users\Abbas khan\html:\usr\share\nginx\html:ro" -d -p 80:80 nginx
bad945ca1114b66db68274e41a9851a972ad2c207d22e5dbed06fc5de840bf4a

C:\Users\Abbas Khan>docker ps
CONTAINER ID   IMAGE    COMMAND                CREATED        STATUS        PORTS                 NAMES
bad945ca1114   nginx    "/docker-entrypoint.…"  2 minutes ago  Up 2 minutes  0.0.0.0:80->80/tcp    abbas-nginx
```

- **Verification**
  "http:localhost:80"

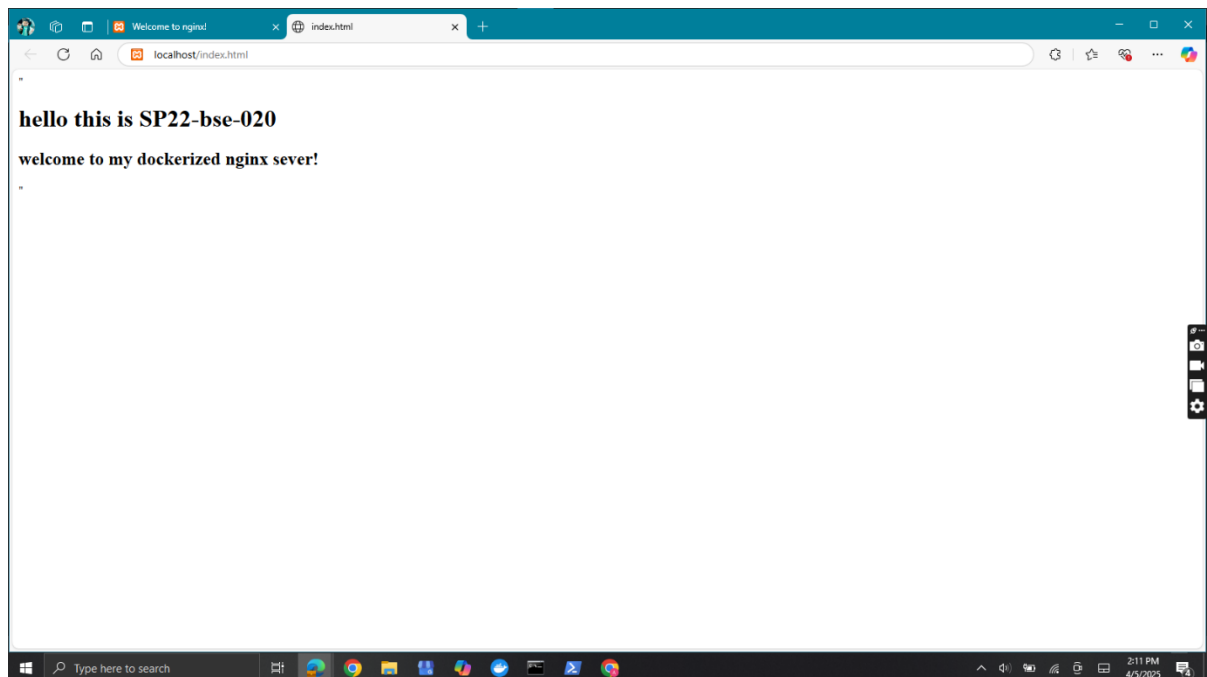I ran the above command in the URL bar of my browser to ensure my webpage is running fine on the server.
At first it was not running as my port 80 was listening to Apache(XAMPP), but then I turned it off and I restarted my container and it went well.

hello this is SP22-bse-020

welcome to my dockerized nginx sever!

Other Screenshots: