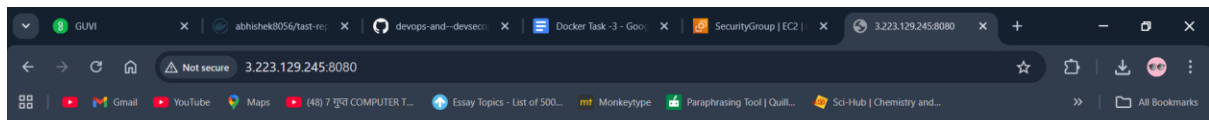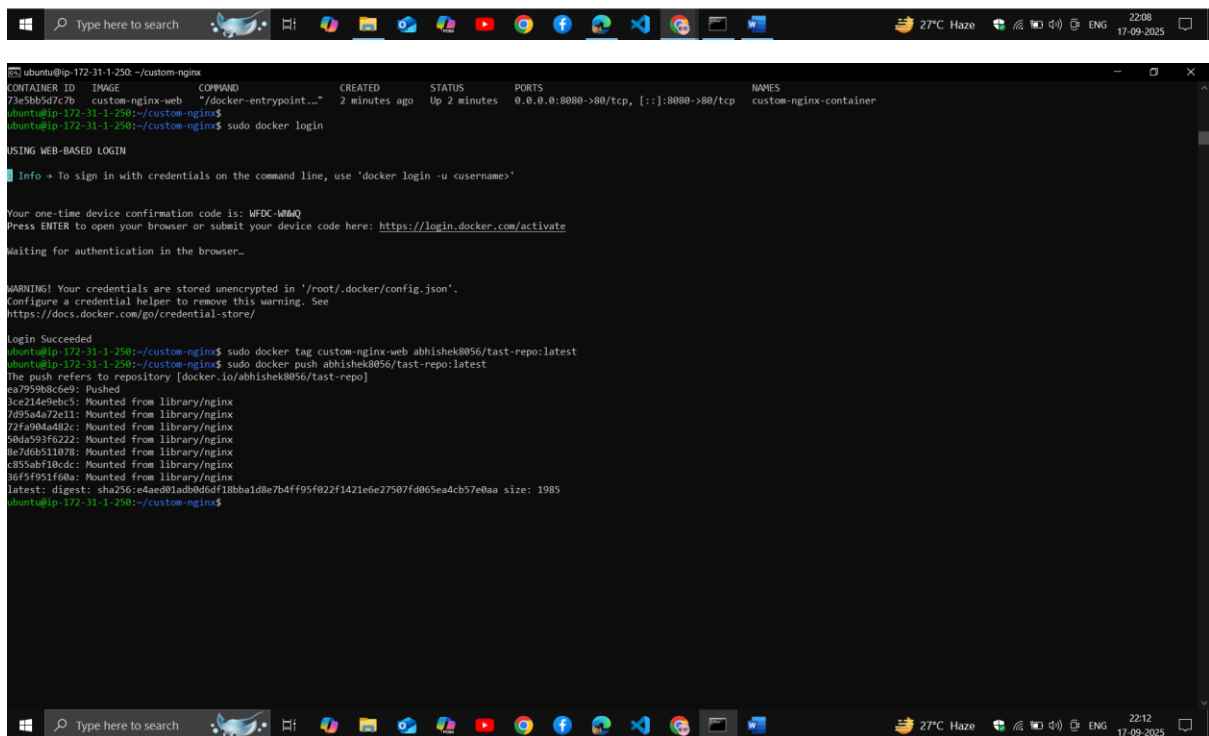```
ubuntu@ip-172-31-1-250:~$ nano docker.sh
ubuntu@ip-172-31-1-250:~$ ubuntu@ip-172-31-1-250:~$ ^C
ubuntu@ip-172-31-1-250:~$
ubuntu@ip-172-31-1-250:~$ chmod +x docker.sh
chmod: cannot access 'docker.sh': No such file or directory
ubuntu@ip-172-31-1-250:~$ ls
docker.sh7
ubuntu@ip-172-31-1-250:~$ chmod +x docker.sh
ubuntu@ip-172-31-1-250:~$ ls
docker.sh7
ubuntu@ip-172-31-1-250:~$ chmod +x docker.sh7
ubuntu@ip-172-31-1-250:~$ ls
docker.sh7
ubuntu@ip-172-31-1-250:~$ cat docker.sh7
```

```
                                                install-docker.sh                                                Modified

#!/bin/bash
# ====================================================
# Script: install-docker.sh
# Description: Install Docker & Docker Compose on Ubuntu
# Author: Abhishek Mishra
# ====================================================

set -e

echo " ~O Updating system..."
sudo apt-get update -y
sudo apt-get upgrade -y

echo " M-& Installing dependencies..."
sudo apt-get install -y ca-certificates curl gnupg lsb-release

echo " ~Q Adding Docker's official GPG key..."
sudo mkdir -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg

echo " ~K Adding Docker repository..."
echo \
  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \
  $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

echo " ~O Updating package index..."
sudo apt-get update -y

echo " M-3 Installing Docker Engine, C&I & Compose..."
sudo apt-get install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

echo "B Starting and enabling Docker service..."
sudo systemctl start docker
sudo systemctl enable docker

echo " M-$ Adding user to docker group..."
```

```
ubuntu@ip-172-31-1-250:~/custom-nginx$ ls
Dockerfile
ubuntu@ip-172-31-1-250:~/custom-nginx$ cat Dockerfile
# Start from official nginx base image
FROM nginx:latest

# Create a custom HTML page
RUN echo '<h1>Hello, I am Abhishek Mishra </h1><p>This is a custom Nginx Docker image.</p>' \
  > /usr/share/nginx/html/index.html

# Expose default nginx port
EXPOSE 80

ubuntu@ip-172-31-1-250:~/custom-nginx$
```

```
ubuntu@ip-172-31-1-250:~/custom-nginx$ nano docker-compose.yml
ubuntu@ip-172-31-1-250:~/custom-nginx$ ubuntu@ip-172-31-1-250:~/custom-nginx$ ^C
ubuntu@ip-172-31-1-250:~/custom-nginx$ ls
Dockerfile  docker-compose.yml
ubuntu@ip-172-31-1-250:~/custom-nginx$ cat docker-compose.yml
version: '3.8'

services:
  web:
    build: .
    container_name: custom-nginx-container
    ports:
      - "8080:80"
    volumes:
      - ./nginx-data:/var/opt/nginx

ubuntu@ip-172-31-1-250:~/custom-nginx$
```



```
ubuntu@ip-172-31-1-250:~/custom-nginx$ sudo docker compose up --build -d
WARN[0000] /home/ubuntu/custom-nginx/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Building 6.5s (8/8) FINISHED
 => [internal] load local bake definitions                                                                                     0.0s
 => => reading from stdin 501B                                                                                                  0.0s
 => [internal] load build definition from Dockerfile                                                                           0.0s
 => => transferring dockerfile: 208B                                                                                           0.0s
 => [internal] load metadata for docker.io/library/nginx:latest                                                               0.4s
 => [internal] load .dockerignore                                                                                              0.0s
 => => transferring context: 2B                                                                                               0.0s
 => [1/2] FROM docker.io/library/nginx:latest@sha256:d5f28ef21aabddd008f3dbc21fe5b7a7d7a184720bc07da0b6c9b9820e97f25e        5.0s
 => => resolve docker.io/library/nginx:latest@sha256:d5f28ef21aabddd008f3dbc21fe5b7a7d7a184720bc07da0b6c9b9820e97f25e        0.0s
 => => sha256:d5f28ef21aabddd008f3dbc21fe5b7a7d7a184720bc07da0b6c9b9820e97f25e 10.25kB / 10.25kB                              0.0s
 => => sha256:41f089c209100e6cadf3ce7fdd02035e90dbd1d586716bf0fc6ea55c365b2d81 8.50kB / 8.50kB                                0.0s
 => => sha256:d107e437f7299a0db6425d4e37f44fa779f7917ecc8daf1e87128ee91b9ed3d3 28.23MB / 28.23MB                              0.6s
 => => sha256:cb497a329a015b4a2fe3b785e16e4589f3fed99a7d4603467l125ef0b21e05ba 44.07MB / 44.07MB                              0.8s
 => => sha256:f1c4d397f477546f880aadb7faeeee8eaa1d40e3ded29e62b590f64acf629912 627B / 627B                                    0.1s
 => => sha256:27637a97e3d1d0518adc2a877b60db3779970f19474b6e586ddcbc2d5500e285 2.29kB / 2.29kB                                0.0s
 => => sha256:f72106e8650736e17bf673e22947b69f0074b76be40d5a728d0704a762d0d285 956B / 956B                                    0.2s
 => => sha256:899c83fc198bc29704e0f259db984cde12bfbb7cb60363667b108955b05fdd7a 404B / 404B                                    0.4s
 => => sha256:a785b00f5a670dcc22bd75e1ffd6463d1b27c37f53a799479bf8ac95d2330952 1.21kB / 1.21kB                                0.5s
 => => sha256:6c50e4e0c4393a7c1dc665d7c0f5b717d184ead14a9a0cfd50acd7997fe5e70d 1.40kB / 1.40kB                                0.6s
 => => extracting sha256:d107e437f7299a0db6425d4e37f44fa779f7917ecc8daf1e87128ee91b9ed3d3                                     1.8s
 => => extracting sha256:cb497a329a015b4a2fe3b785e16e4589f3fed99a7d4603467l125ef0b21e05ba                                     1.9s
 => => extracting sha256:f1c4d397f477546f880aadb7faeeee8eaa1d40e3ded29e62b590f64acf629912                                     0.0s
 => => extracting sha256:f72106e8650736e17bf673e22947b69f0074b76be40d5a728d0704a762d0d285                                     0.0s
 => => extracting sha256:899c83fc198bc29704e0f259db984cde12bfbb7cb60363667b108955b05fdd7a                                     0.0s
 => => extracting sha256:a785b00f5a670dcc22bd75e1ffd6463d1b27c37f53a799479bf8ac95d2330952                                     0.0s
 => => extracting sha256:6c50e4e0c4393a7c1dc665d7c0f5b717d184ead14a9a0cfd50acd7997fe5e70d                                     0.0s
 => [2/2] RUN echo '<h1>Hello, I am Abhishek Mishra </h1><p>This is a custom Nginx Docker image.</p>'        > /usr/share/nginx/html/index.html  0.7s
 => exporting to image                                                                                                         0.1s
 => => exporting layers                                                                                                        0.1s
 => => writing image sha256:45c8d653a106cdbb8ca2bebb4d636853d193ff137507b6ee0116dd8565febe94                                  0.0s
 => => naming to docker.io/library/custom-nginx-web                                                                           0.0s
 => resolving provenance for metadata file                                                                                    0.0s
[+] Running 3/3
 ✔ custom-nginx-web              Built                                                                                         0.0s
 ✔ Network custom-nginx_default  Created                                                                                       0.1s
 ✔ Container custom-nginx-container  Started                                                                                   0.6s
ubuntu@ip-172-31-1-250:~/custom-nginx$
```

Hello, I am Abhishek Mishra

This is a custom Nginx Docker image.

```
ubuntu@ip-172-31-1-250: ~/custom-nginx
CONTAINER ID   IMAGE             COMMAND                CREATED         STATUS          PORTS                                         NAMES
73e5bb5d7c7b   custom-nginx-web  "/docker-entrypoint..."  2 minutes ago   Up 2 minutes    0.0.0.0:8080->80/tcp, [::]:8080->80/tcp       custom-nginx-container
ubuntu@ip-172-31-1-250:~/custom-nginx$
ubuntu@ip-172-31-1-250:~/custom-nginx$ sudo docker login

USING WEB-BASED LOGIN

i Info → To sign in with credentials on the command line, use 'docker login -u <username>'


Your one-time device confirmation code is: WFDC-WNWQ
Press ENTER to open your browser or submit your device code here: https://login.docker.com/activate

Waiting for authentication in the browser…


WARNING! Your credentials are stored unencrypted in '/root/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
ubuntu@ip-172-31-1-250:~/custom-nginx$ sudo docker tag custom-nginx-web abhishek8056/tast-repo:latest
ubuntu@ip-172-31-1-250:~/custom-nginx$ sudo docker push abhishek8056/tast-repo:latest
The push refers to repository [docker.io/abhishek8056/tast-repo]
ea7959b8c6e9: Pushed
3ce214e9ebc5: Mounted from library/nginx
7d95a4a72e11: Mounted from library/nginx
72fa904a482c: Mounted from library/nginx
50da593f6222: Mounted from library/nginx
8e7d6b511078: Mounted from library/nginx
c855abf10cdc: Mounted from library/nginx
36f5f951f60a: Mounted from library/nginx
latest: digest: sha256:e4aed01adb0d6df18bba1d8e7b4ff95f022f1421e6e27507fd065ea4cb57e0aa size: 1985
ubuntu@ip-172-31-1-250:~/custom-nginx$
```