Host a Sample Webpage on Nginx using Docker

# 📁 Step 1: Prepare Your Project Directory

Assume your folder structure is:  
my-webpage/  
├── index.html  
└── Dockerfile (optional)

Sample index.html content:

<!DOCTYPE html>  
<html>  
<head><title>My Sample Page</title></head>  
<body><h1>Hello from Nginx in Docker!</h1></body>  
</html>

# 🐳 Step 2: Run Nginx with Docker (Simple Method)

Use the following command to run Nginx and serve your HTML:

docker run --name nginx-web \  
 -v ${PWD}:/usr/share/nginx/html:ro \  
 -p 8080:80 \  
 -d nginx

Explanation:

* --name nginx-web → container name
* -v ${PWD}:/usr/share/nginx/html:ro → mounts current directory to Nginx's web root (read-only)
* -p 8080:80 → maps host port 8080 to container port 80
* -d → detached mode
* nginx → official Nginx image

Open your browser and go to http://localhost:8080

# 🛠️ Step 3: (Optional) Create a Dockerfile for Custom Image

Sample Dockerfile:

FROM nginx:latest  
COPY index.html /usr/share/nginx/html/

Build and run your custom image:

docker build -t my-nginx-web .  
docker run --name nginx-custom -p 8080:80 -d my-nginx-web

# 📦 Step 4: Stop and Remove the Container

If you want to stop and remove the container:

docker stop nginx-web  
docker rm nginx-web