Step 1: Create a Simple Static Website

index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>My Static Website</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f0f0f0;

text-align: center;

padding-top: 50px;

}

h1 {

color: #333;

}

p {

color: #555;

}

</style>

</head>

<body>

<h1>Welcome to My Static Website!</h1>

<p>This website is served using Nginx inside a Docker container.</p>

</body>

</html>

**Step 2: Write/Create a Dockerfile to Serve the Website using Nginx**

Next, create a Dockerfile to build an image with Nginx that serves your static HTML file.

**Dockerfile**:

# Use the official Nginx image from the Docker Hub

FROM nginx:alpine

# Copy the local 'index.html' file into the container

COPY index.html /usr/share/nginx/html/index.html

# Expose port 80 to allow the container to serve the website

EXPOSE 80

# Run Nginx in the foreground

CMD ["nginx", "-g", "daemon off;"]

docker build -t static-website .

docker run -d -p 8080:80 static-website

http://localhost:8080