WIPRO EXERCISE

Steps to build my-website

Step 1: Create Project Directory

Open your terminal and run:

mkdir my-website
cd my-website

Step 2: Create Website Content

Create a file namedindex.html with the following content:

File: index.html

Step 3: Create Dockerfile

Create a file namedockerfile in the same directory:

File: Dockerfile

```
# Use the official Nginx image from Docker Hub
FROM nginx:alpine
# Copy the website files to the Nginx HTML directory
COPY index.html /usr/share/nginx/html/index.html
# Expose port 80 for the web server
EXPOSE 80
# Start Nginx when the container launches
CMD ["nginx", "-g", "daemon off;"]
```

Step 4: Build and Run the Docker Container

- 1. Build the Docker image:
- 2. docker build -t my-website .
- 3. Run the Docker container (map container port 80 to host port 8080):
- 4. docker run -d -p 8080:80 --name my-website-container my-website

Step 5: Access the Website

Open your browser and go to:

f http://localhost:8080

You should see the "Welcome to My Docker Website!" page.

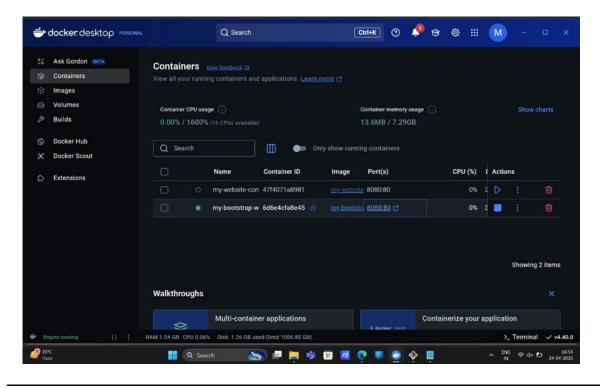
Step 6: Stop and Clean Up (Optional)

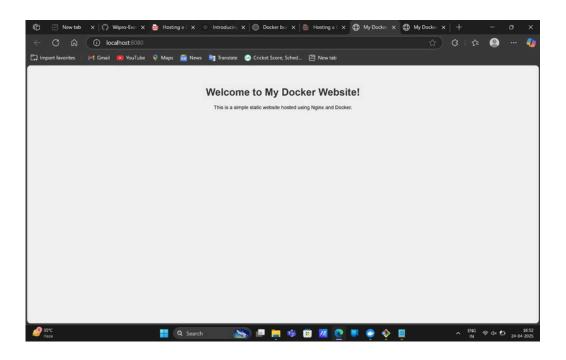
- 1. Stop and remove the container:
- 2. docker stop my-website-container
- 3. docker rm my-website-container
- 4. Remove the Docker image:
- 5. docker rmi my-website

SCREENSHOT OF THE STEPS

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STEP-2





Steps to build my-bootstrap-website

Step 1: Create Project Directory

Open your terminal and run:

mkdir my-bootstrap-website
cd my-bootstrap-website

Step 2: Create Website Files

```
File: index.html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>My Docker Website</title>
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <!-- Bootstrap CSS CDN -->
 link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css
" rel="stylesheet">
 <!-- Custom CSS -->
 <link rel="stylesheet" href="styles.css">
</head>
<body>
 <div class="container text-center mt-5">
 <h1>Welcome to My Docker Website!</h1>
 This website uses Bootstrap, jQuery, and custom CSS, hosted with Nginx
and Docker.
   <button id="toggleButton" class="btn btn-primary mt-3">Toggle
Message</button>
   Hello! This message was toggled using
jQuery.
 </div>
 <!-- jQuery CDN -->
 <script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
 <!-- Custom JS -->
 <script src="script.js"></script>
</body>
</html>
```

```
File: styles.css
body {
   background-color: #f8f9fa;
   font-family: Arial, sans-serif;
}
h1 {
   color: #343a40;
}
.lead {
   color: #6c757d;
}

File: script.js
$ (document).ready(function() {
   $('#toggleButton').click(function() {
    $('#message').toggleClass('d-none');
   });
});
```

Step 3: Create Dockerfile

File: Dockerfile

```
# Use the official Nginx image from Docker Hub
FROM nginx:alpine
# Copy website files to the Nginx HTML directory
COPY index.html /usr/share/nginx/html/
COPY styles.css /usr/share/nginx/html/
COPY script.js /usr/share/nginx/html/
# Expose port 80 for the web server
EXPOSE 80
# Start Nginx when the container launches
CMD ["nginx", "-g", "daemon off;"]
```

Step 4: Build and Run the Docker Container

1. Build the Docker image:

docker build -t my-bootstrap-website .

2. Run the Docker container:

docker run -d -p 8080:80 --name my-bootstrap-website-container my-bootstrap-website

Step 5: Access the Website

Open your browser and visit:

† http://localhost:8080

You should see a Bootstrap-styled page with a button and a message that toggles using jQuery.

Step 6: Stop and Clean Up (Optional)

1. Stop and remove the container:

docker stop my-bootstrap-website-container
docker rm my-bootstrap-website-container

2. Remove the Docker image:

docker rmi my-bootstrap-website

SCREENSHOT OF THE STEPS

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