```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Welcome to My Custom Apache Server</title>

</head>

<body>

    <h1>Hello, World!</h1>

    <p>This is my custom HTML page served by Apache2.</p>

</body>

</html>
```

Updated Dockerfile.

```dockerfile
# Use the official Ubuntu image as the base

FROM ubuntu:latest


# Set environment variables to prevent interactive prompts during package installation

ENV DEBIAN_FRONTEND=noninteractive


# Update the package list and install Apache2

RUN apt-get update && \

    apt-get install -y apache2 && \

    apt-get clean && \

    rm -rf /var/lib/apt/lists/*


# Copy the sample HTML file to the default Apache web directory

COPY index.html /var/www/html/index.html
```

Expose port 80

EXPOSE 80

Start Apache2 in the foreground

CMD ["apache2ctl", "-D", "FOREGROUND"]