Apache inside Docker

Prerequistes:

- In Instance security group add custom TCP port 8080 along with http port 80 and ssh port 22.
- Instance is installed with docker.

Project Structure:

```
|— Dockerfile
└— my-site/
    └— index.html
```

Commands:

- sudo apt install docker.io –y
- sudo systemctl status docker
- sudo usermod -aG docker $USER
- Build the Dockerfile

Dockerfile:

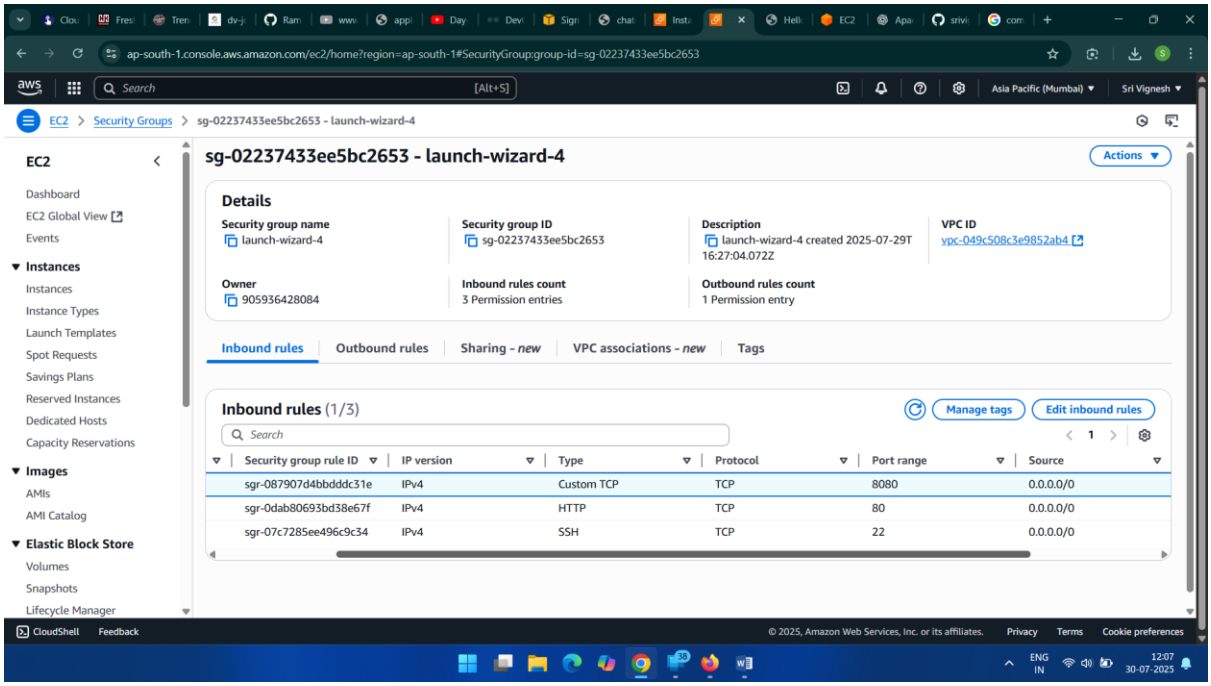
```
# Use the official Apache image
FROM httpd:2.4

# Copy website files into the Apache document root
COPY ./my-site/ /usr/local/apache2/htdocs/
```

Html code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Hello from Apache in Docker!</title>
</head>
<body>
    <h1>Welcome to my Apache Docker container </h1>
</body>
</html>
```

Commands :

- docker build -t my-apache-site .
- docker run -d -p 8080:80 --name apache-container my-apache-site
  Here we are trying to run this container in 8080 port number. Go check http://<public_Ip>:8080.
- docker stop apache-container


ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroup:group-id=sg-02237433ee5bc2653
EC2 > Security Groups > sg-02237433ee5bc2653 - launch-wizard-4
sg-02237433ee5bc2653 - launch-wizard-4
Actions
Details
Security group name
launch-wizard-4
Security group ID
sg-02237433ee5bc2653
Description
launch-wizard-4 created 2025-07-29T 16:27:04.072Z
VPC ID
vpc-049c508c3e9852ab4
Owner
905936428084
Inbound rules count
3 Permission entries
Outbound rules count
1 Permission entry
Inbound rules
Outbound rules
Sharing - new
VPC associations - new
Tags
Inbound rules (1/3)
Manage tags
Edit inbound rules
Security group rule ID
IP version
Type
Protocol
Port range
Source
sgr-087907d4bbdddc31e
IPv4
Custom TCP
TCP
8080
0.0.0.0/0
sgr-0dab80693bd38e67f
IPv4
HTTP
TCP
80
0.0.0.0/0
sgr-07c7285ee496c9c34
IPv4
SSH
TCP
22
0.0.0.0/0
CloudShell
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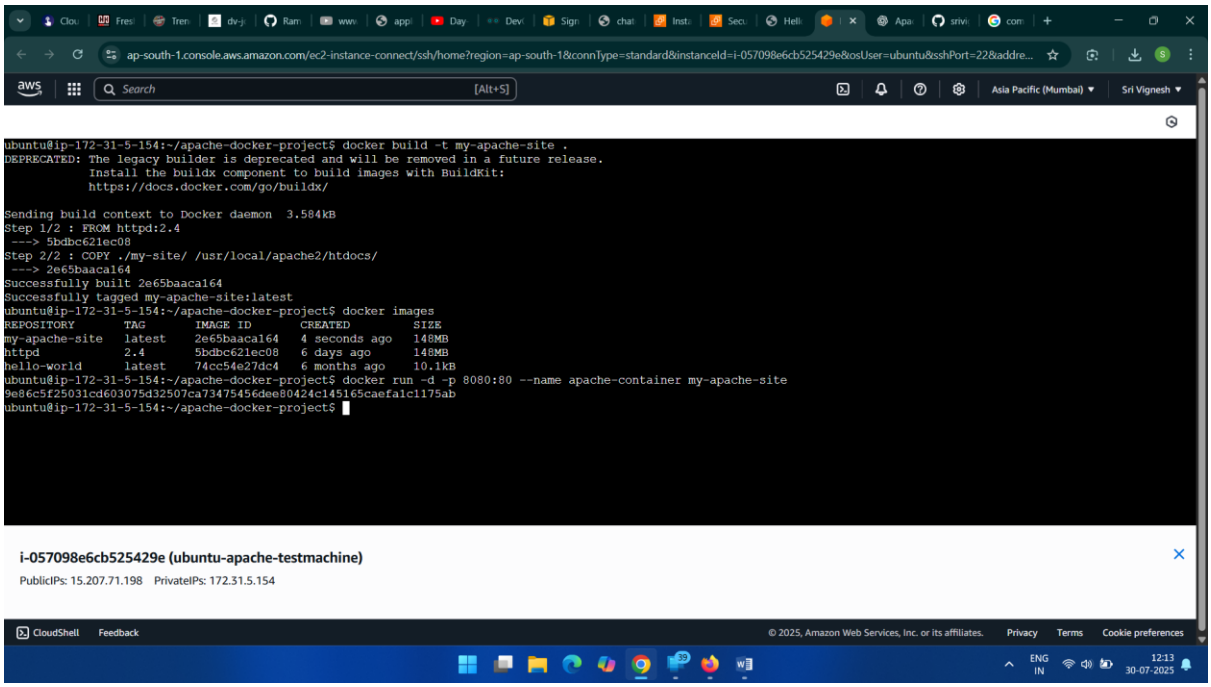
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-south-1&connType=standard&instanceId=i-057098e6cb525429e&osUser=ubuntu&sshPort=22&addre...
ubuntu@ip-172-31-5-154:~/apache-docker-project$ docker build -t my-apache-site .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/
Sending build context to Docker daemon 3.584kB
Step 1/2 : FROM httpd:2.4
---> 5bdbc621ec08
Step 2/2 : COPY ./my-site/ /usr/local/apache2/htdocs/
---> 2e65baaca164
Successfully built 2e65baaca164
Successfully tagged my-apache-site:latest
ubuntu@ip-172-31-5-154:~/apache-docker-project$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
my-apache-site latest 2e65baaca164 4 seconds ago 148MB
httpd 2.4 5bdbc621ec08 6 days ago 148MB
hello-world latest 74cc54e27dc4 6 months ago 10.1kB
ubuntu@ip-172-31-5-154:~/apache-docker-project$ docker run -d -p 8080:80 --name apache-container my-apache-site
9e86c5f25031cd603075d32507ca73475456dee80424c145165caefa1c1175ab
ubuntu@ip-172-31-5-154:~/apache-docker-project$
i-057098e6cb525429e (ubuntu-apache-testmachine)
PublicIPs: 15.207.71.198 PrivateIPs: 172.31.5.154
CloudShell
Feedback
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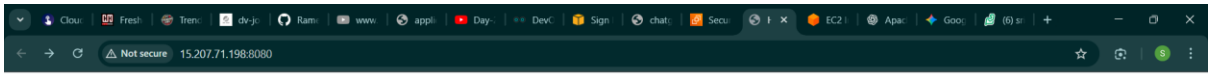

Welcome to my Apache Docker container ðŸš€