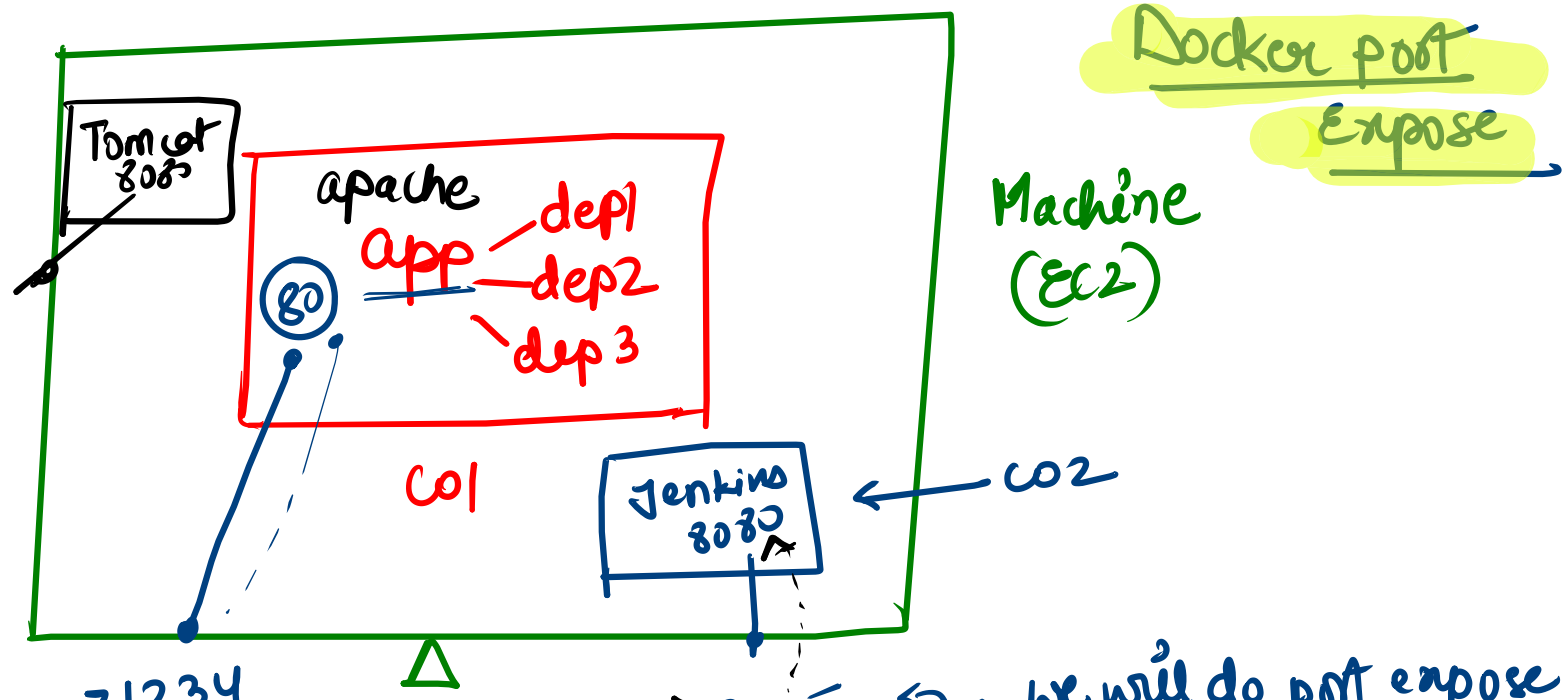
Docker port Expose

A container does not have its own public ip.

Then how we can access the app from the Internet



we will do port expose where we can expose port 8080 of the container with port 2025 of the machine

```
# docker run -it -p 1234:80 --name webapp ubuntu /bin/bash
```

Create a container

Interactive terminal

Port

Machine port

Container port
(since we will deploy apache app & by default apache works on port 80)

name of the container

Base Image

Bash terminal

you will Enter Inside the container.

apt update → update all packages

apt install apache2 -y → Install apache in container

lets deploy a websik Inside container which is present in github.

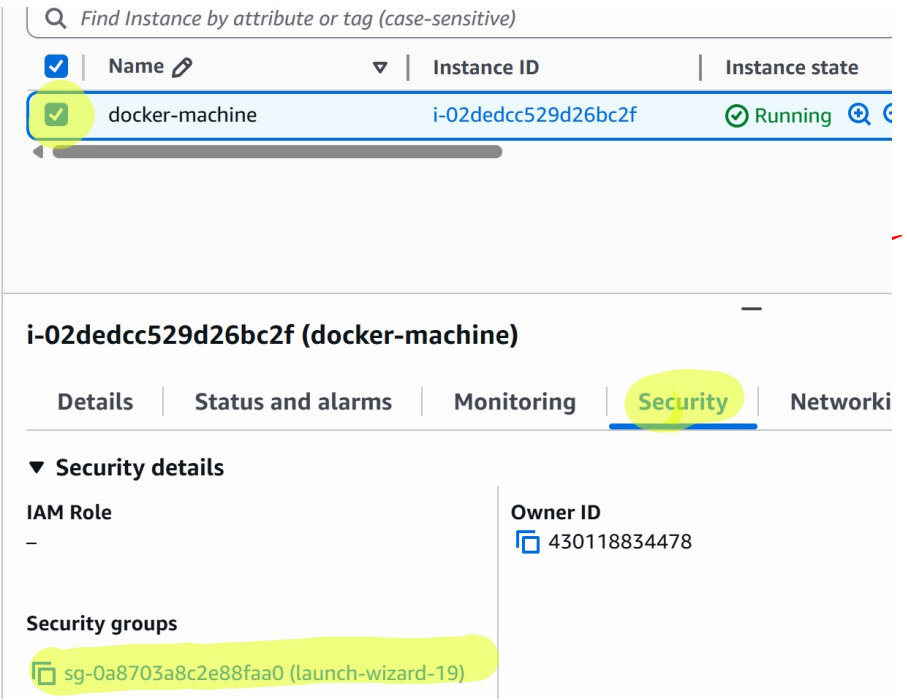
apt install git -y → Install git in container

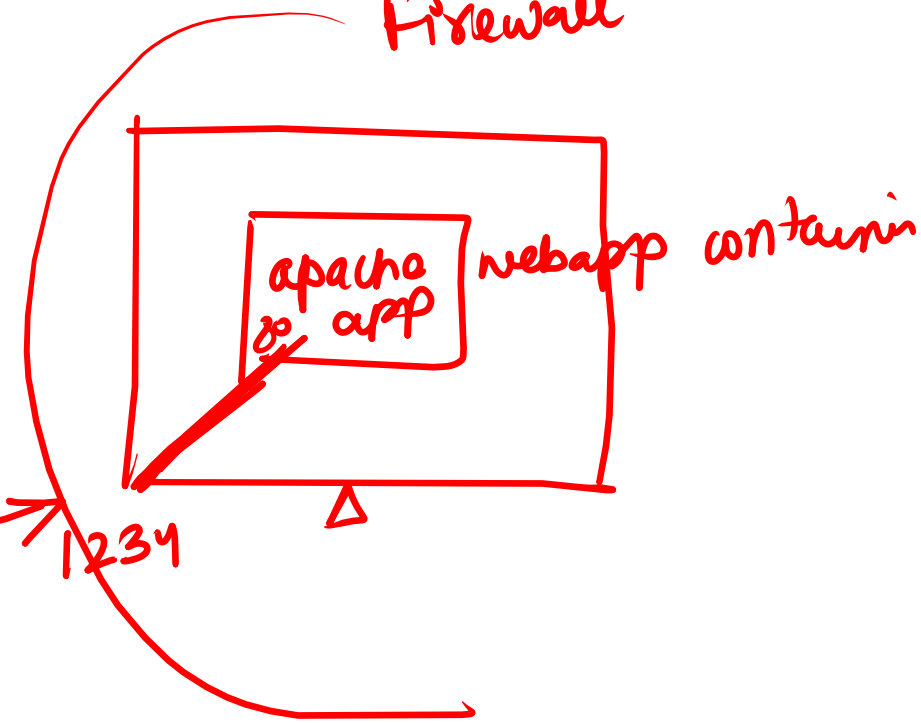
Now we need to start apache :

service apache2 start ← start the apache package

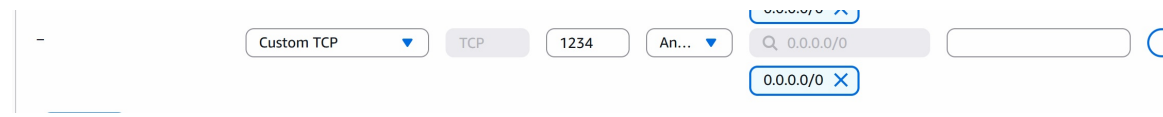
```
root@be32b3385eab:/# service apache2 start
 * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' dir
obally to suppress this message
```

Go to the security group of the machine & allow Inbound Traffic from port 1234





Edit Inbound rule →



Instances (1/1) Info

Last updated less than a minute ago

Connect

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance
docker-machine	i-02dedcc529d26bc2f	Runn

i-02dedcc529d26bc2f (docker-machine)

Details | Status and alarms | Monitoring | Security | N

Instance summary Info

Instance ID
i-02dedcc529d26bc2f

Public IPv4 address
3.110.163.95 | open addres

IPv6 address

Instance state
Running

But we need to deploy apache custom app inside the container

https://github.com/akshu20791/apachewebsite

remove

default page which we saw in previous slide

```
root@be32b3385eab:/# rm /var/www/html/index.html
root@be32b3385eab:/# git clone https://github.com/akshu20791/apachewebsite /var/www/html/
Cloning into '/var/www/html'...
remote: Enumerating objects: 128, done.
remote: Counting objects: 100% (51/51), done.
remote: Compressing objects: 100% (29/29), done.
remote: Total 128 (delta 47), reused 22 (delta 22), pack-reused 77 (from 1)
Receiving objects: 100% (128/128), 1.31 MiB | 12.50 MiB/s, done.
Resolving deltas: 100% (53/53), done.
root@be32b3385eab:/#
```

Press ctrl p & ctrl q to come out of container

we cloned the apachewebsite git repo to /var/www/html