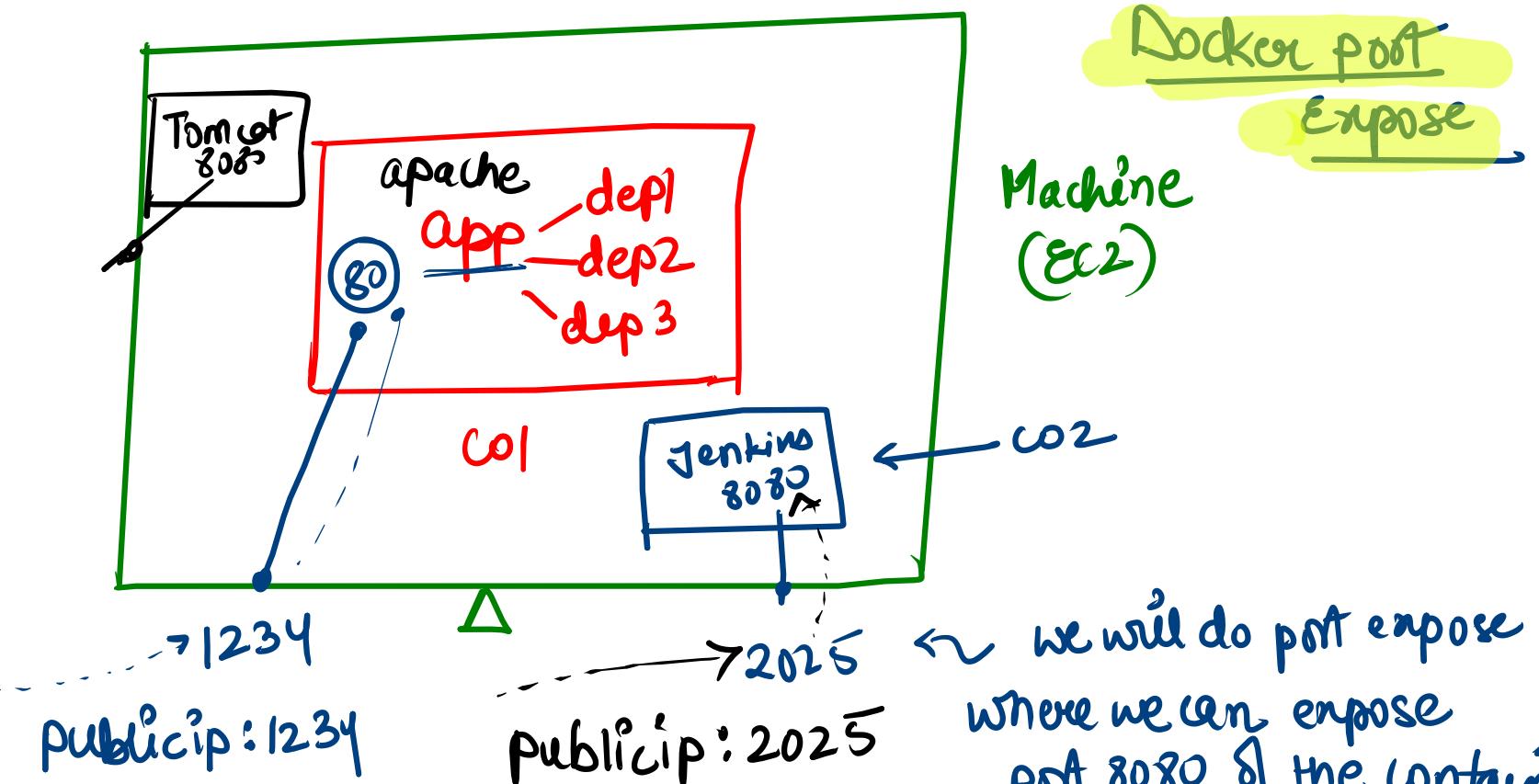


A container does not have its own public ip.

Then how we can access the app from the Internet



Docker port
Expose

Machine
(EC2)

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

name of the container

Container port

Bash terminal

Base Image

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

you will Enter Inside the container.

apt update → update all packages

apt install apache2 -y → Install Apache in container

lets deploy a website 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

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state
<input checked="" type="checkbox"/> docker-machine	i-02dedcc529d26bc2f	<input checked="" type="checkbox"/> Running

i-02dedcc529d26bc2f (docker-machine)

Details | Status and alarms | Monitoring | **Security** | Network

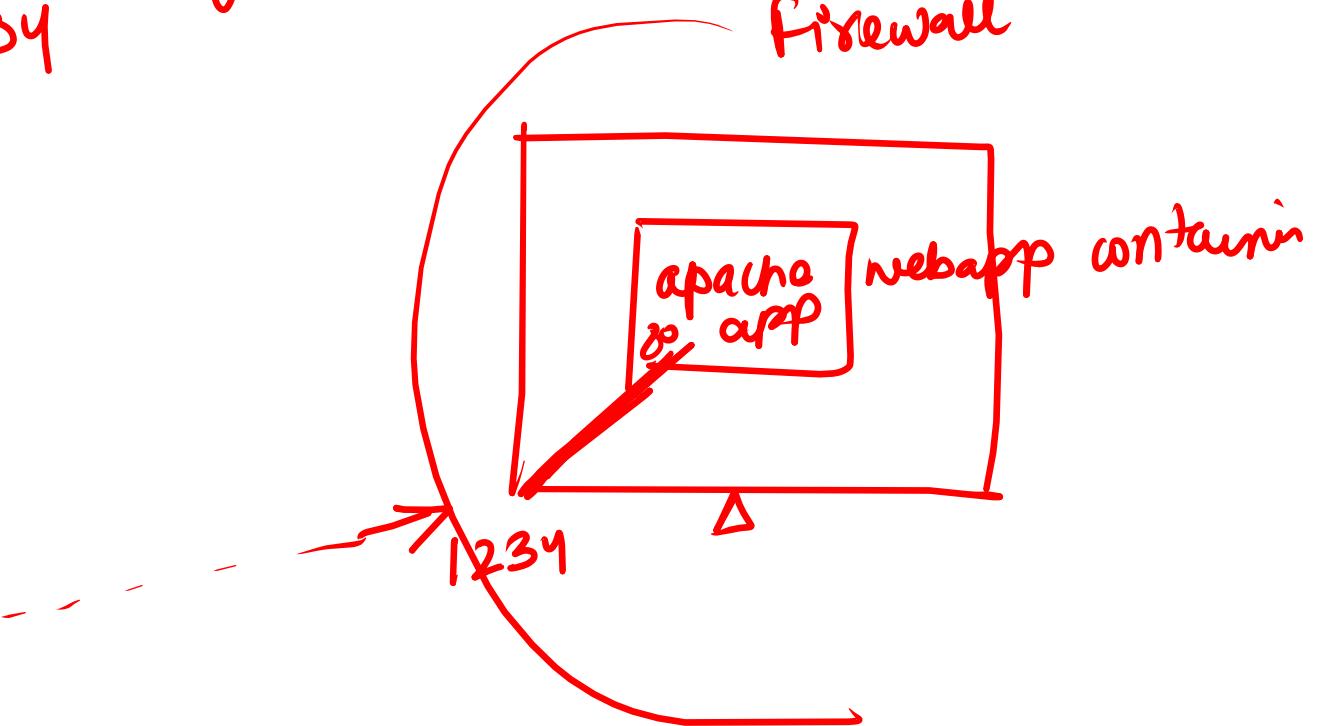
▼ Security details

IAM Role -

Owner ID 430118834478

Security groups

sg-0a8703a8c2e88faa0 (launch-wizard-19)



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
<input checked="" type="checkbox"/> docker-machine	i-02dedcc529d26bc2f	<input checked="" type="checkbox"/> Running

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 address](#)

Instance state [Running](#)



Not secure 3.110.163.95:1234

Apache2 Default Page

Ubuntu ~ It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Apache packaging is derived. If you can read this page, it means that the Apache HTTP server at this site is working properly. You should [replace this file](#) (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

But we need to deploy apache custom app inside the container

<https://github.com/akshu20791/apachewebsite>

```
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:/#
```

remove

default page which we
saw in previous
slide

Press **ctrl p & ctrl q** to come out of container

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