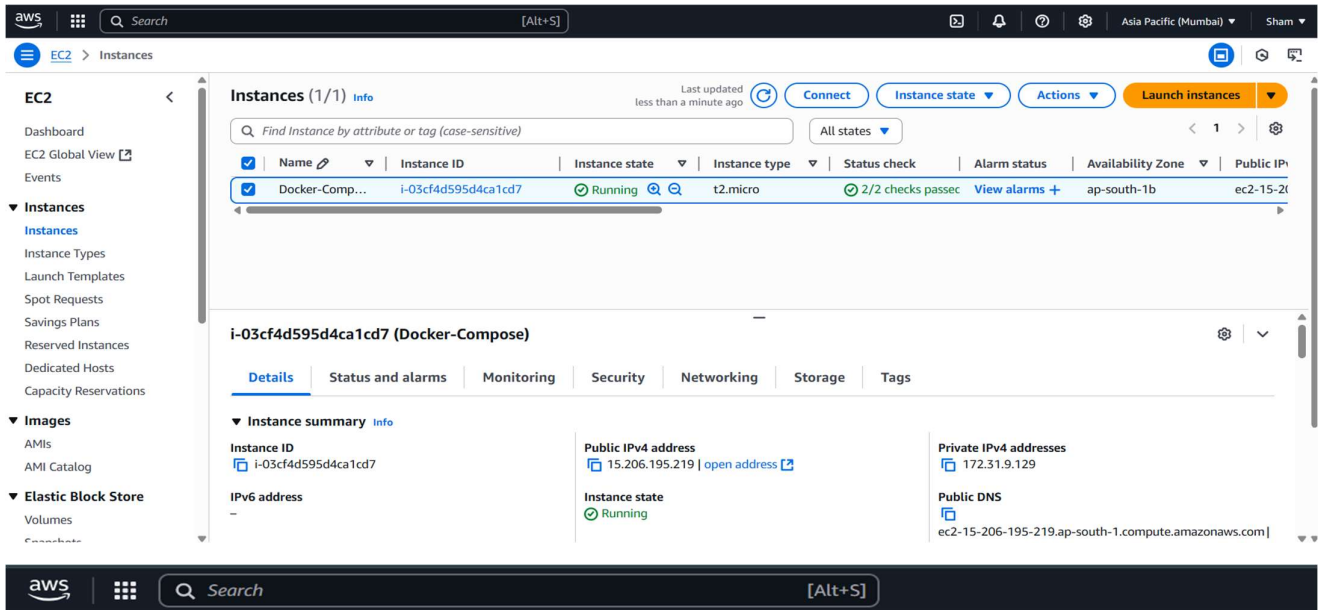


# Create A Webserver and Launch Through Docker Compose with Volume Mount in Docker Compose.

## 1. Launch Instance with Docker and Docker compose socket.



```
root@ip-172-31-9-129:~# docker --version
Docker version 28.3.0, build 38b7060
root@ip-172-31-9-129:~# docker compose version
Docker Compose version v2.37.3
root@ip-172-31-9-129:~#
```

## 2. Creating Working Directory and Writing docker-compose.yml File.

```
root@ip-172-31-9-129:~# ls
snap
root@ip-172-31-9-129:~# mkdir docker-comp
root@ip-172-31-9-129:~# ls
docker-comp  snap
root@ip-172-31-9-129:~#
```

```
root@ip-172-31-9-129:~/docker-comp# vi docker-compose.yml
root@ip-172-31-9-129:~/docker-comp# cat docker-compose.yml
```

```
service:
  webserver-1:
    container_name: my-web-server-1
    image: nginx
    ports:
      - "8080:80"
    environment:
      Name: PRODUCTION
```

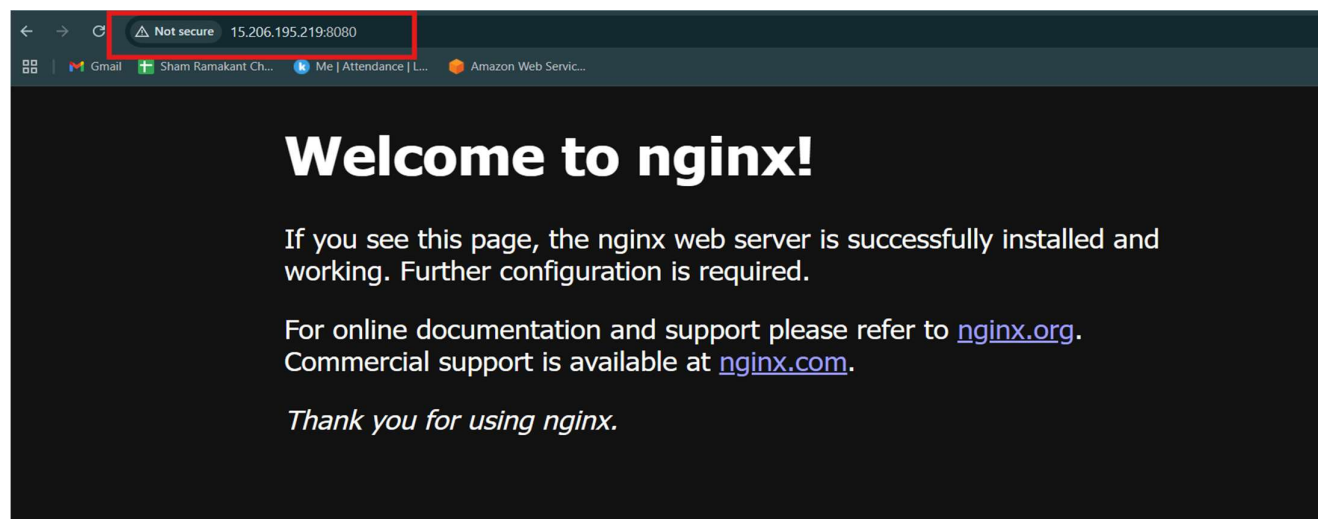
```
root@ip-172-31-9-129:~/docker-comp#
```

### 3. Running Docker Container “my-web-server-1” Through docker-compose.yml.

```
root@ip-172-31-9-129:~/docker-comp# docker compose up -d
[+] Running 8/8
✓ webserver-1 Pulled
✓ dad67da3f26b Pull complete
✓ 4eb3a9835b30 Pull complete
✓ 021db26e13de Pull complete
✓ 397cc88dcd41 Pull complete
✓ 5f4a88bd8474 Pull complete
✓ 66467f827546 Pull complete
✓ f05e87039331 Pull complete
[+] Running 2/2
✓ Network docker-comp default Created
✓ Container my-web-server-1 Started
root@ip-172-31-9-129:~/docker-comp# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
fa476bc67065	nginx	"/docker-entrypoint..."	41 seconds ago	Up 40 seconds	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	my-web-server-1

```
root@ip-172-31-9-129:~/docker-comp#
```



### 4. Running Docker Container “my-web-server-2” with Volume Mount through docker-compose.yml.

```
root@ip-172-31-9-129:~/docker-comp# vi docker-compose.yml
root@ip-172-31-9-129:~/docker-comp# cat docker-compose.yml
```

```
services:
  webserver-1:
    container_name: my-web-server-1
    image: nginx
    ports:
      - "8080:80"
    environment:
      Name: PRODUCTION

  webserver-2:
    container_name: my-web-server-2
    image: nginx
    ports:
      - "8082:80"
    volumes:
      - ./html:/usr/share/nginx/html
    environment:
      Name: PRODUCTION

root@ip-172-31-9-129:~/docker-comp#
```

```

root@ip-172-31-9-129:~/docker-comp# docker compose up -d
[+] Running 2/2
 ✓ Container my-web-server-1 Running
 ✓ Container my-web-server-2 Started
root@ip-172-31-9-129:~/docker-comp# docker ps

```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
dbfc006fe4e0	nginx	"/docker-entrypoint..."	5 seconds ago	Up 5 seconds	0.0.0.0:8082->80/tcp, [::]:8082->80/tcp	my-web-server-2
fa476bc67065	nginx	"/docker-entrypoint..."	8 minutes ago	Up 8 minutes	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	my-web-server-1

```

root@ip-172-31-9-129:~/docker-comp#

```

## 5. Checking Mounted Volume:

```

root@ip-172-31-9-129:~/docker-comp# ls
docker-compose.yml  html
root@ip-172-31-9-129:~/docker-comp#

```

```

root@ip-172-31-9-129:~/docker-comp/html# vi index.html
root@ip-172-31-9-129:~/docker-comp/html# cat index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Welcome to My Web Server</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background: #f5f5f5;
      text-align: center;
      padding-top: 100px;
    }
    h1 {
      color: #333;
    }
    p {
      color: #666;
    }
  </style>
</head>
<body>
  <h1>Welcome to Webserver-2</h1>
  <p>This is served by NGINX running in Docker with volume mount.</p>
</body>
</html>

```

