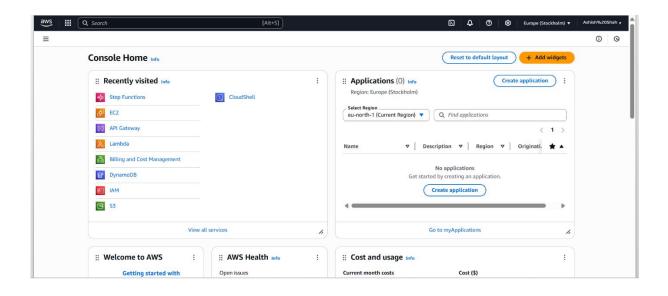
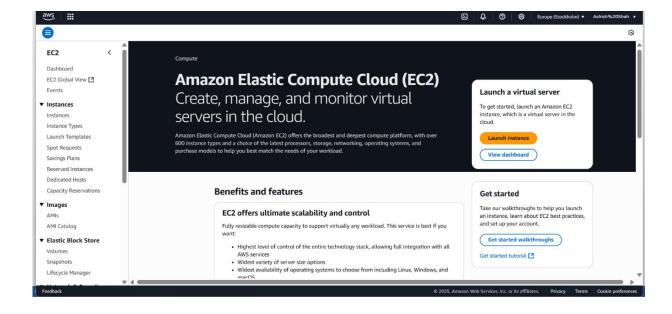
## PROGRAM 6: Migrating a Web Application to Docker Containers

### **Steps for creating an EC2 Instance:**

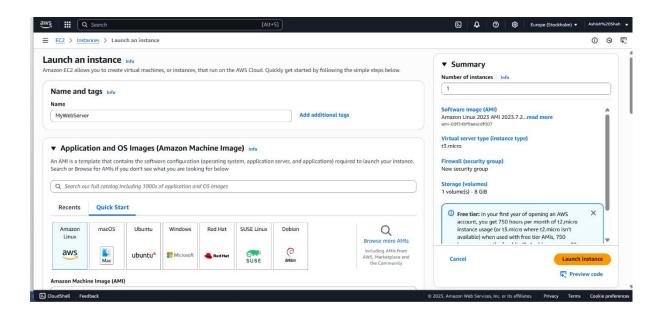
**Step 1:** Login to AWS Account.



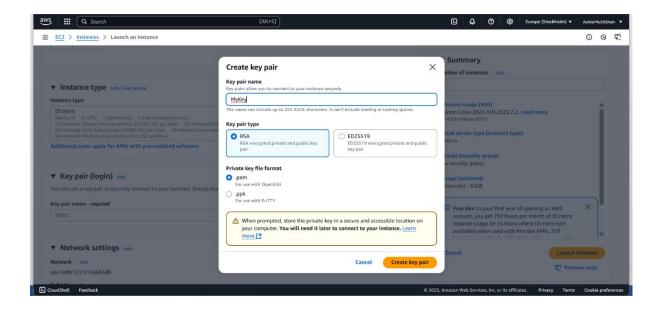
Step 2: Open Amazon EC2 dashboard and click on Launch Instance.



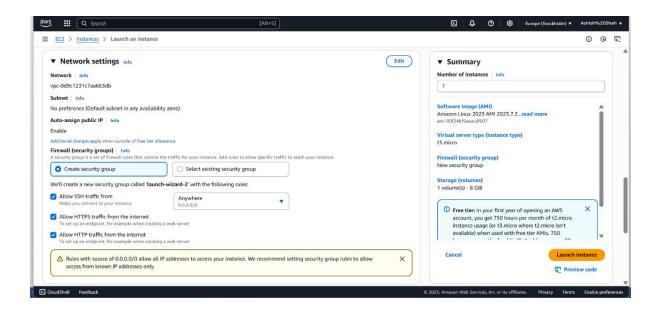
**Step 3:** Give instance a Name (e.g. MyWebServer) and Select Amazon Linux as Instance Type.



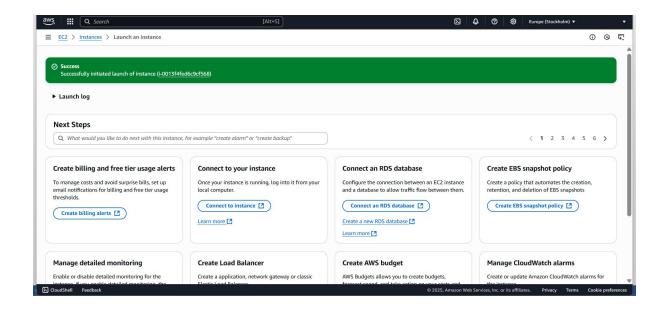
Step 4: Select Key pair or create new key pair.



**Step 5:** Under Firewall Allow HTTPS and HTTP traffic from Internet and click on Launch Instance.

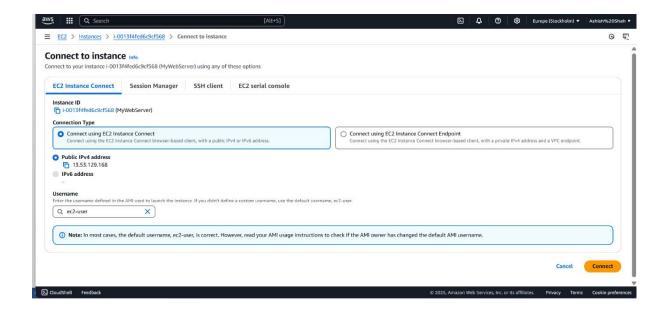


Step 6: A successful launch initiation notification is displayed.



# Steps for migrating a Web Application to Dockers:

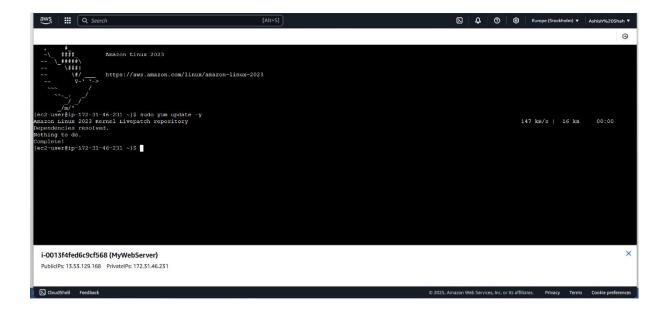
Step 1: Connect to instance created (e.g. MyWebServer).



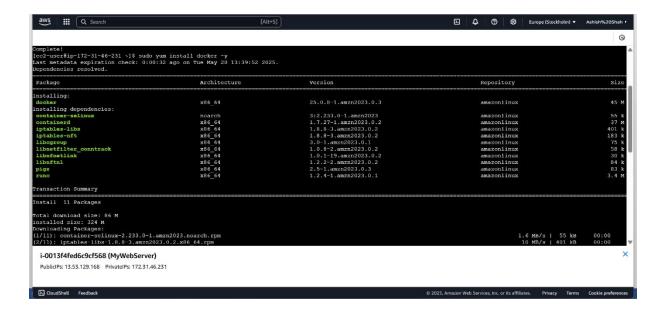
Step 2: Amazon Linux Shell is opened.

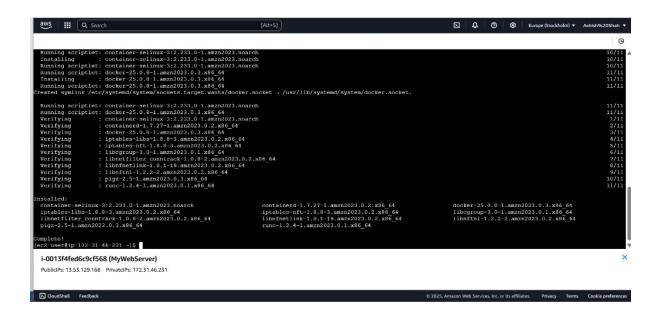


**Step 3:** Run 'sudo yum update -y' command to update or get newer features if available.



Step 4: Run 'sudo yum install docker -y' command to install Docker application on our instance.





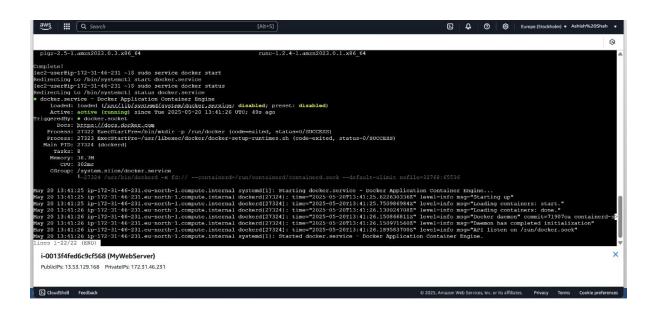
Step 5: Run 'sudo service docker start' command to start docker service on our instance.

```
## Q Search [Altr5]

**Running scriptlet: docker-25.0.8-1-amm2023.0-1.amm2023.noarch
Running scriptlet: docker-25.0.8-1-amm2023.0.3.x86_64

**Running scriptlet: dock
```

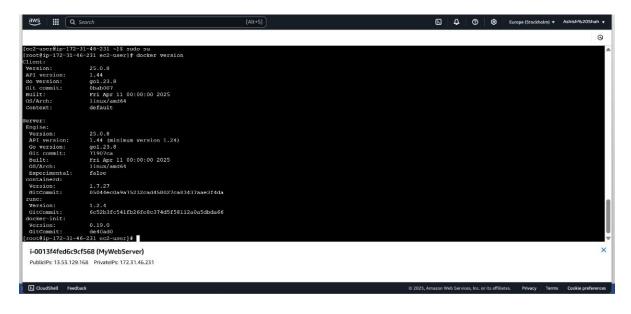
Step 6: Run 'sudo service docker status' command to check if Docker is running.



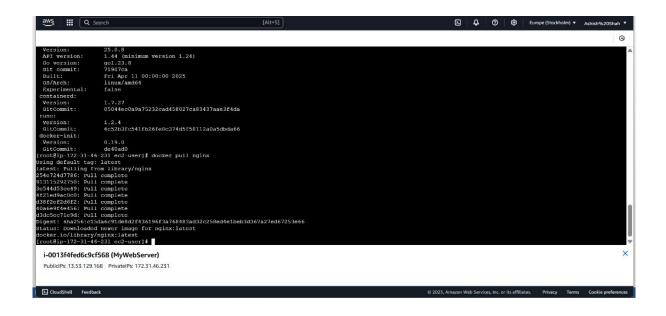
#### Step 7: Run 'sudo su' command to go to root directory on our instance.

```
| Search | Altest | Search |
```

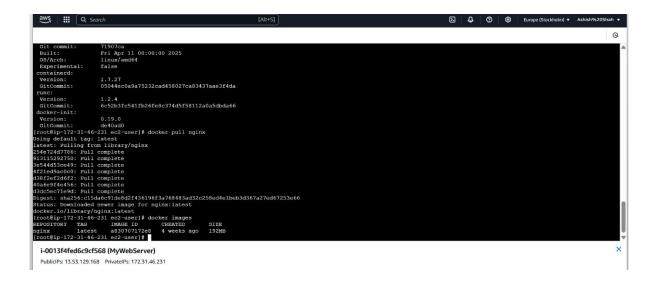
Step 8: Run 'docker version' command to check version of Docker installed.



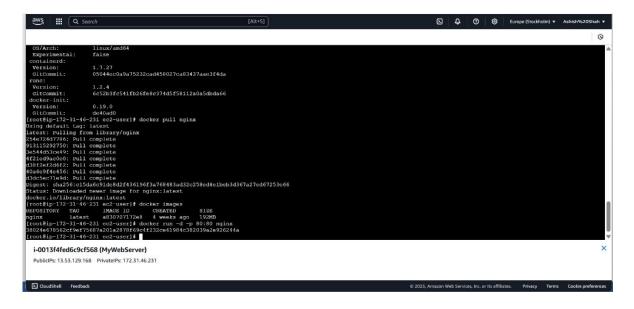
Step 9: Run 'docker pull nginx' command to download the nginx web application from Docker's repository.

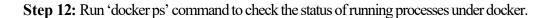


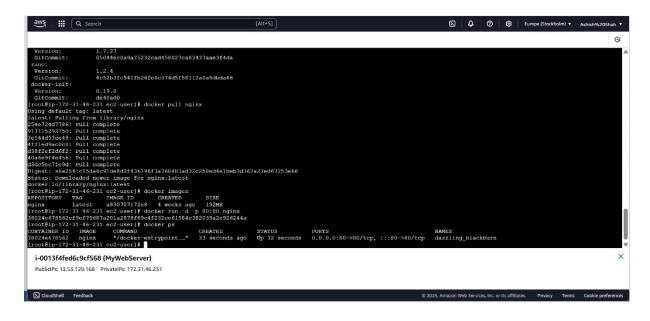
Step 10: Run 'docker images' command to see downloaded application images.



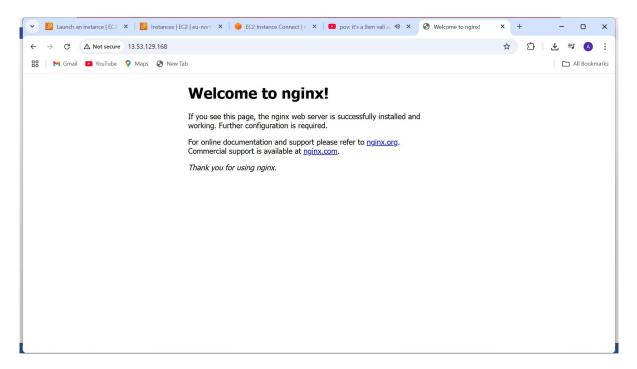
Step 11: Run 'docker run -d -p 80:80 nginx' command to start the nginx application.

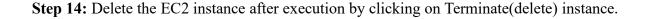


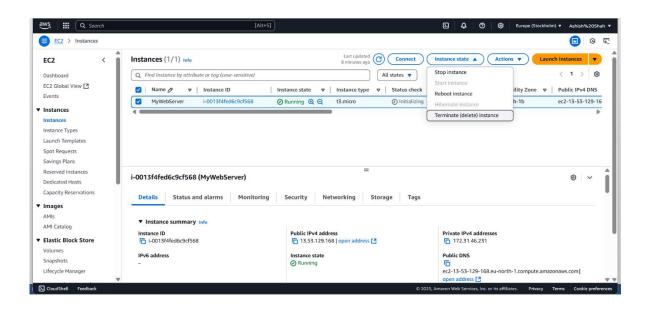




#### **Step 13:** Copy the public IP Address (e.g. 13.53.129.168) to a new tab to view the running nginx application.







**Step 15:** Indicates the successful termination of the instance. Also delete the corresponding key pair and Security groups associated with this instance.

User can sign-out of the AWS account after these steps.

