Lesson 10 Demo 01

Running a Docker Container on an AWS EC2 Instance

Objective: To demonstrate the process of running a Hello World Docker container on an AWS EC2 instance

Tools required: AWS Management Console

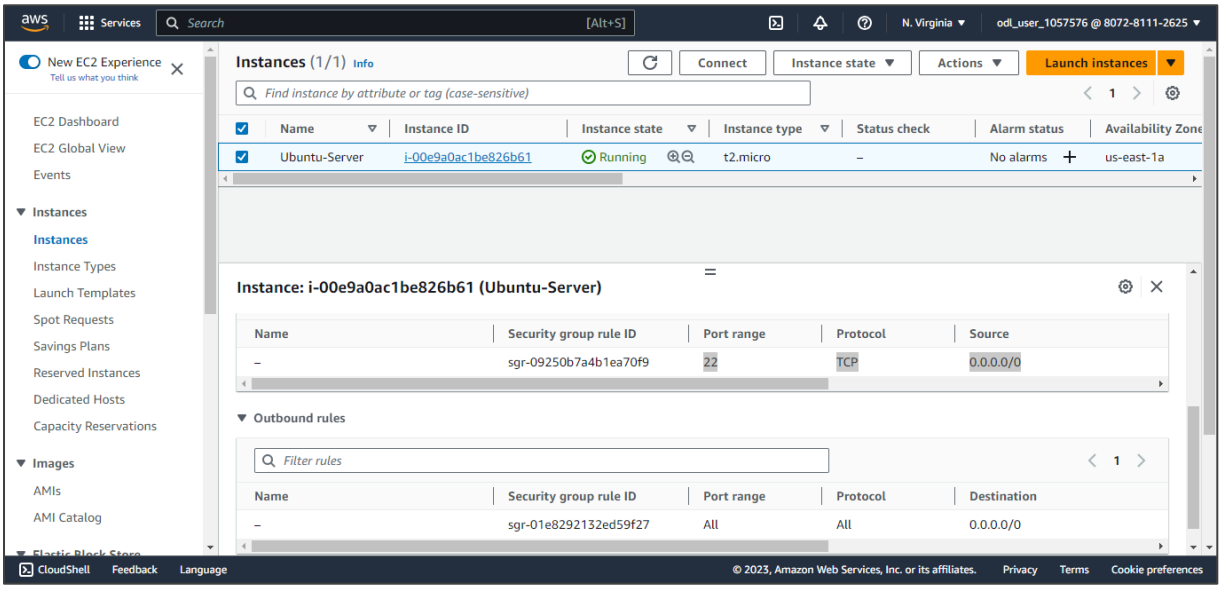
Prerequisites: An EC2 instance with Ubuntu installed

Steps to be followed:

1. Set up an EC2 instance
2. Install the Docker on Ubuntu
3. Run the Hello World Container

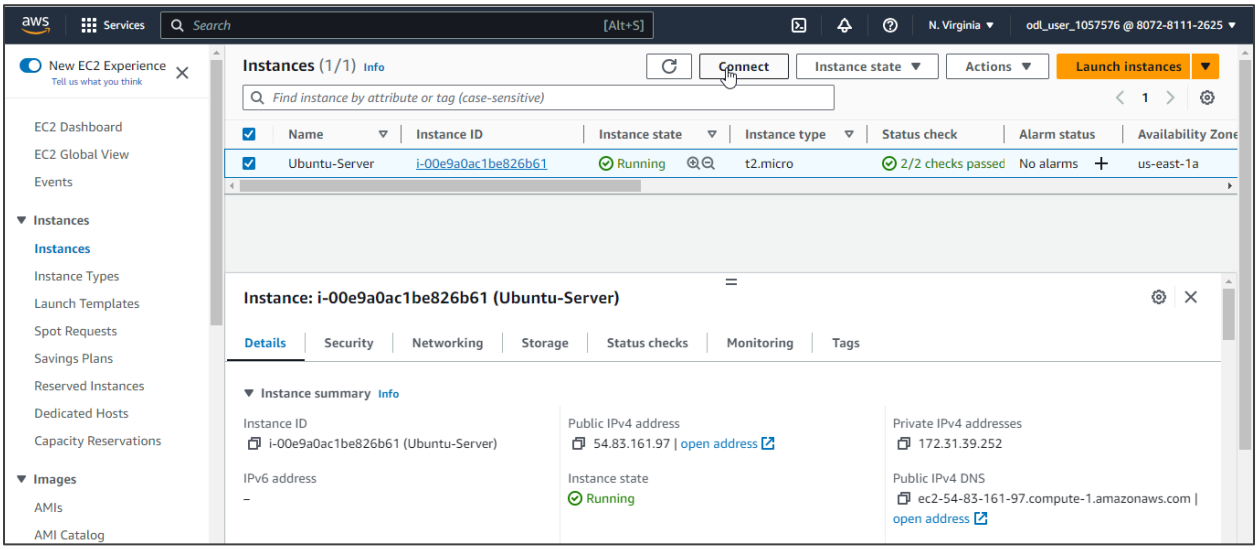
Step 1: Set up an EC2 instance

1.1 Launch a new EC2 instance with Ubuntu as the operating system. Ensure that you have the necessary security group rules to allow SSH access.

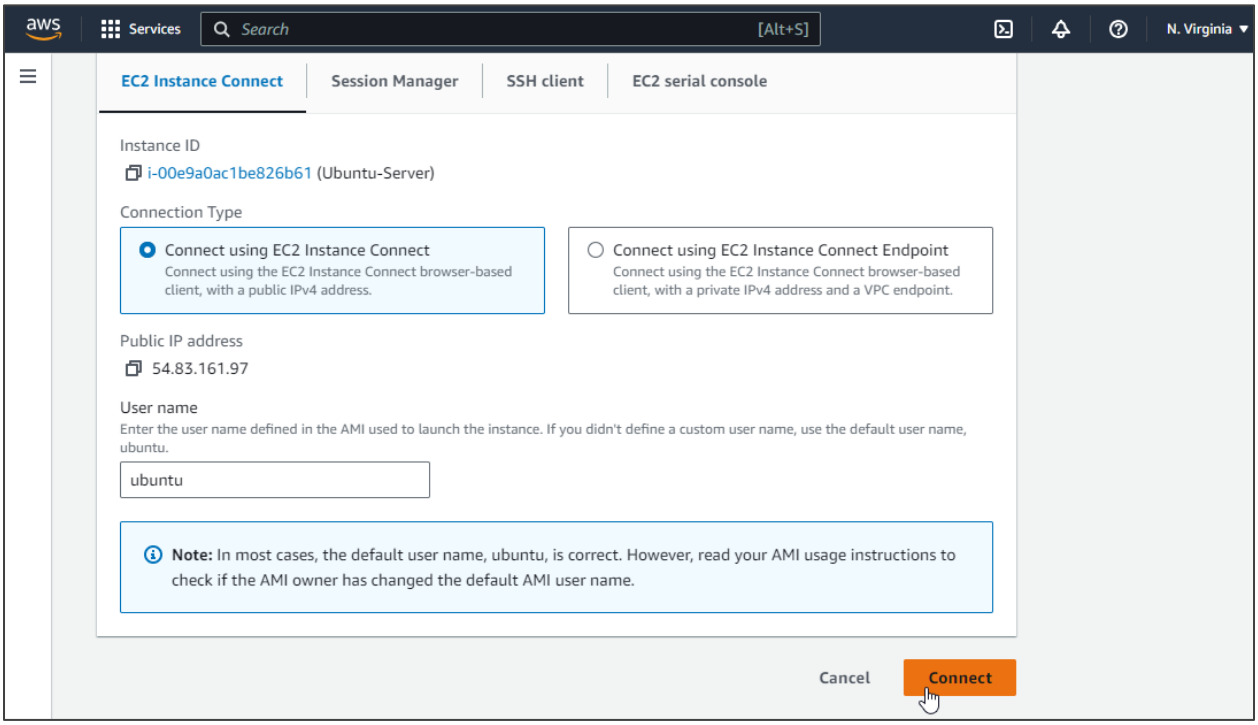


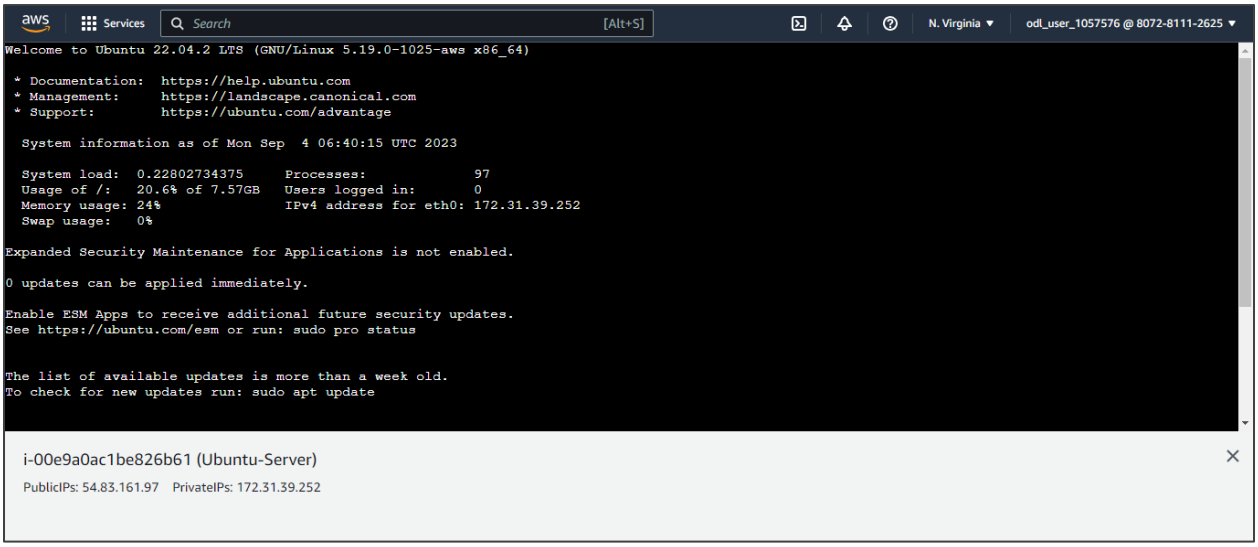
Note: Please refer to previous lesson demos on how to launch an EC2 instance.

1.2 Select the instance and click **Connect**



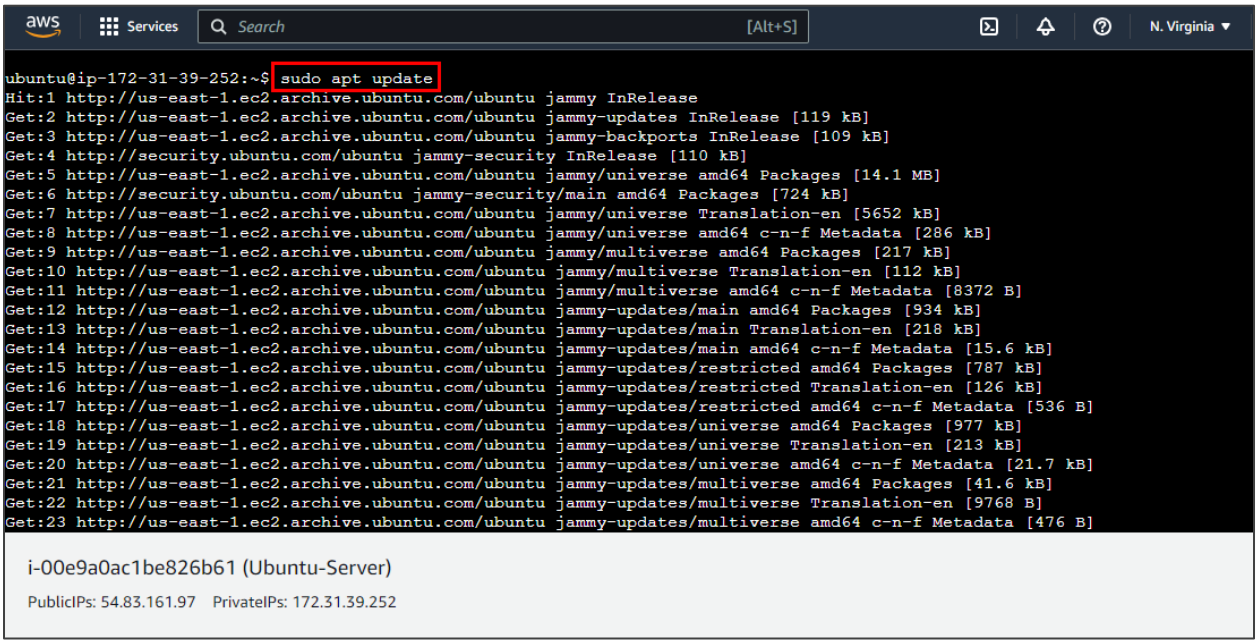
1.3 Click **Connect**



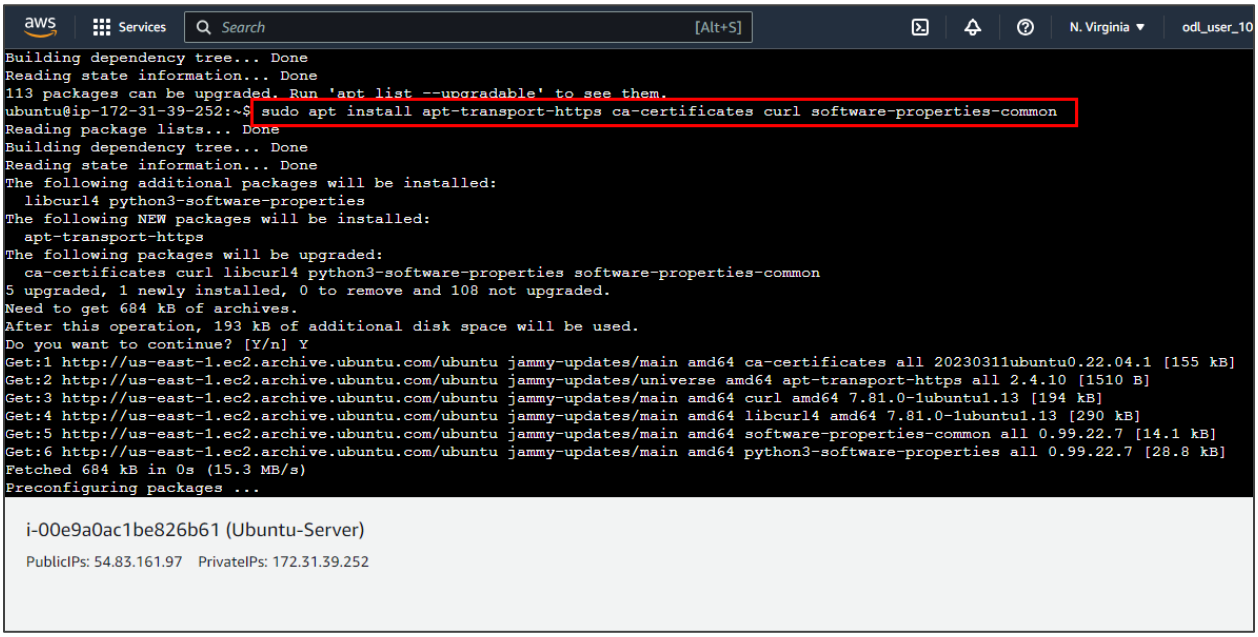


Step 2: Install the Docker on Ubuntu

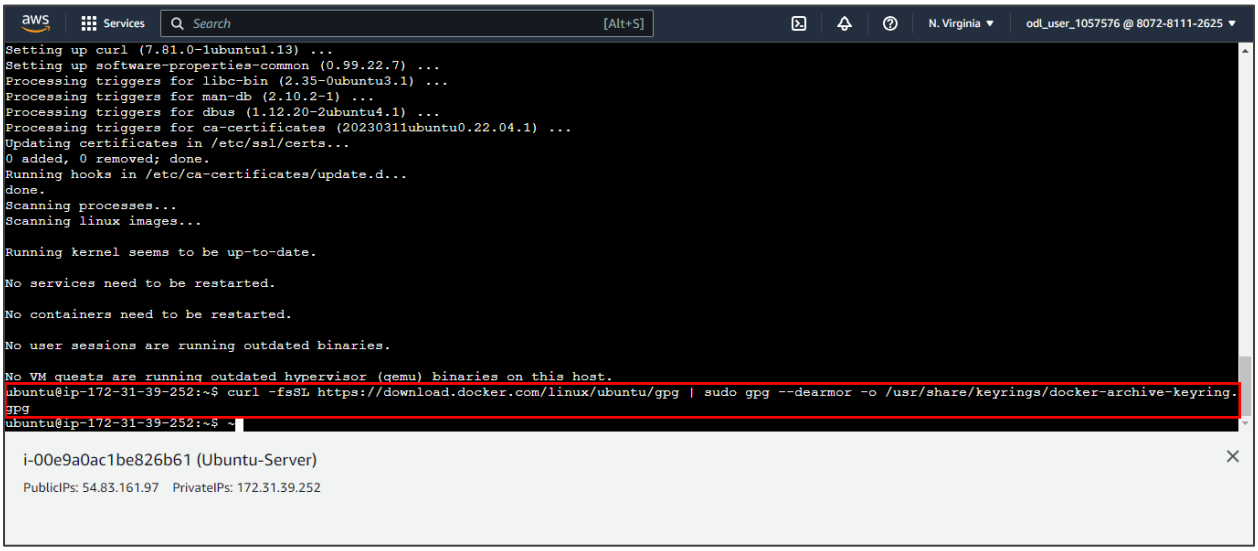
2.1 Run the following command to update the package list:
sudo apt update



2.2 Run the following command to install the necessary dependencies:
sudo apt install apt-transport-https ca-certificates curl software-properties-common

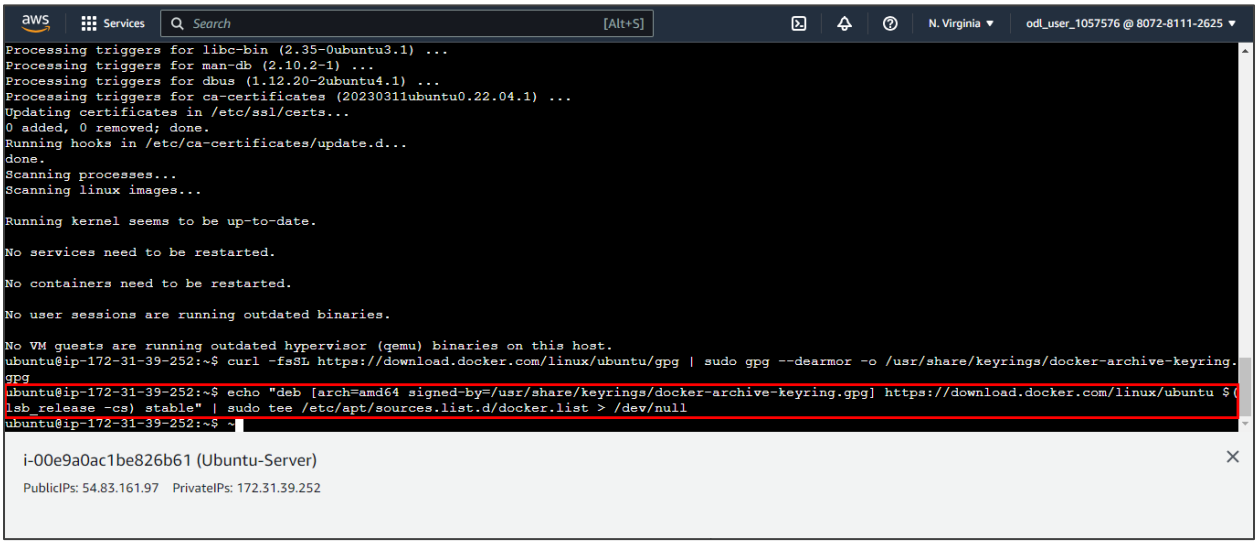


2.3 Run the following command to add the Docker GPG key:
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg



2.4 Run the following command to add the Docker repository:

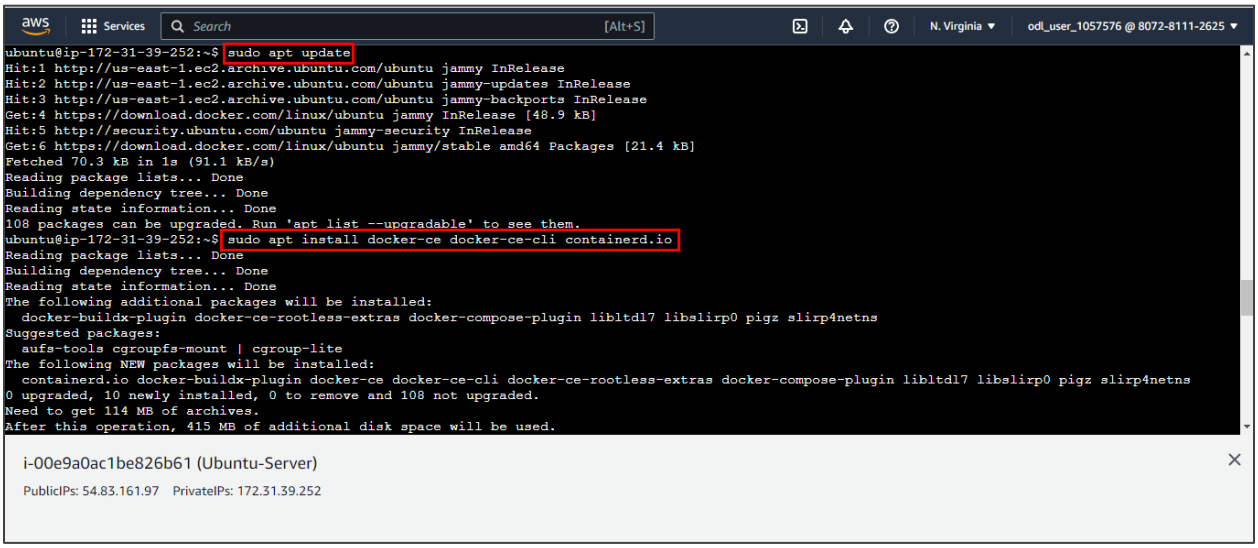
echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null



2.5 Run the following commands to install Docker:

sudo apt update

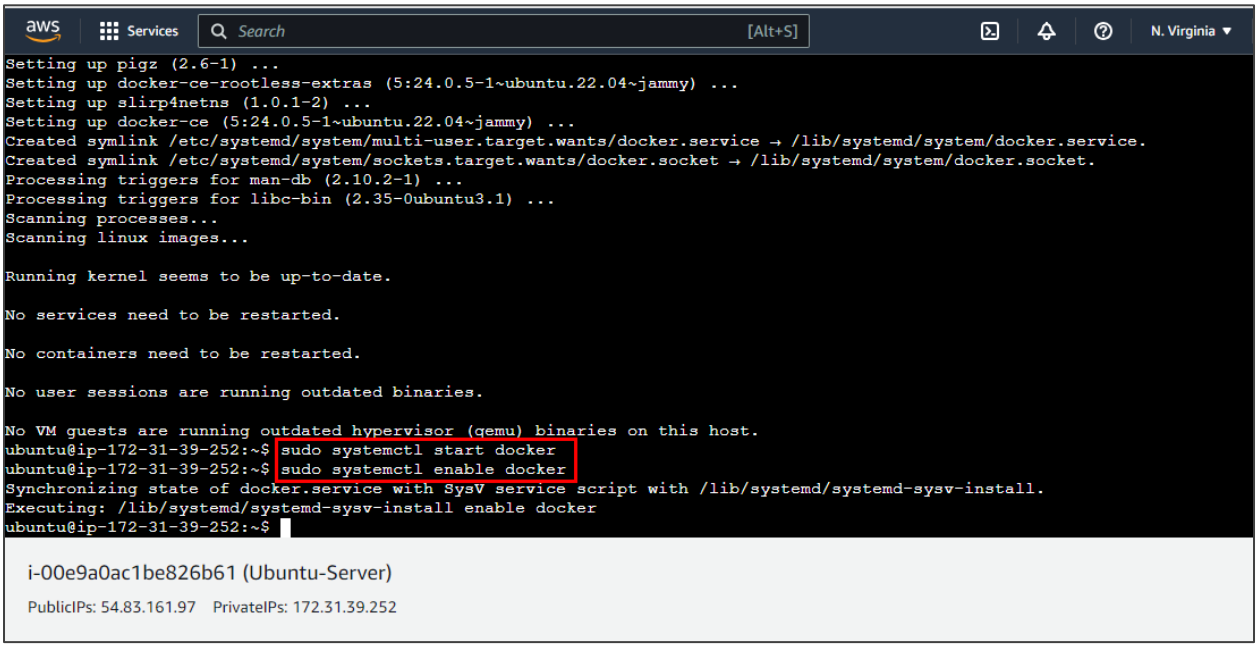
sudo apt install docker-ce docker-ce-cli containerd.io



2.6 Run the following commands to start and enable the Docker service:

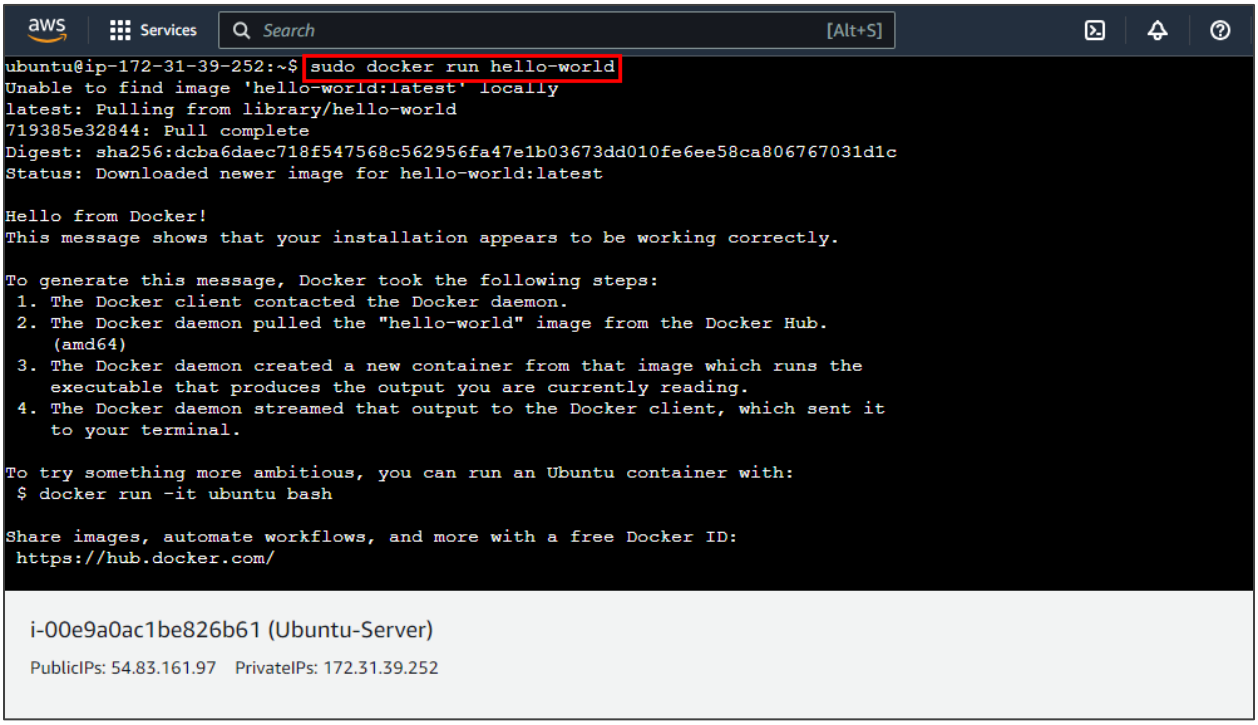
sudo systemctl start docker

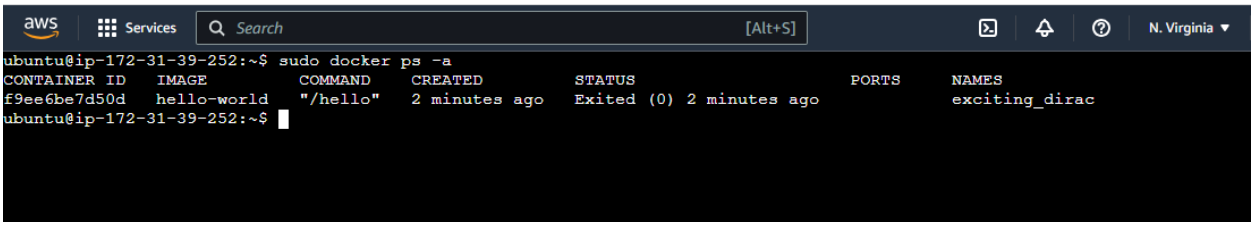
sudo systemctl enable docker



Step 3: Run the Hello World Container

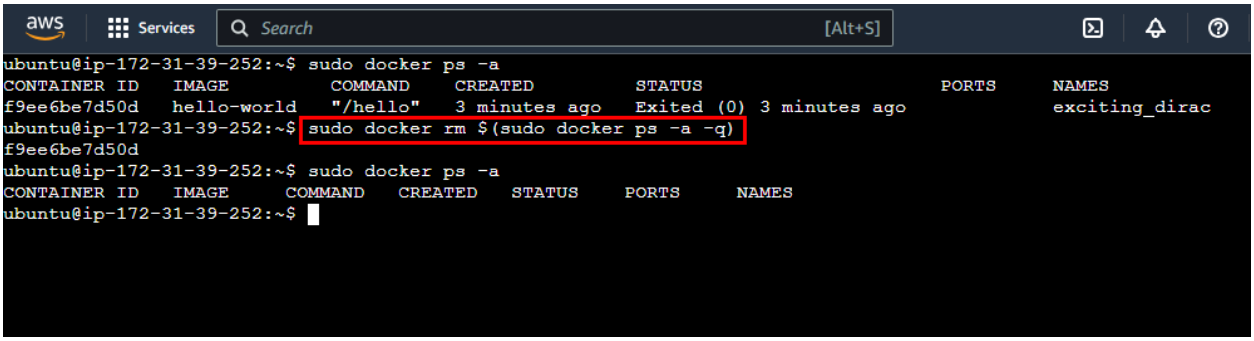
3.1 Run the **Hello World** container using the below command:
sudo docker run hello-world





You will see a message indicating that your installation appears to be working correctly.

3.2 If you want to remove the container, use the given command:
sudo docker rm $(docker ps -a -q)



By following these steps, you have successfully run a **Hello World** container on an EC2 instance using Ubuntu and Docker.