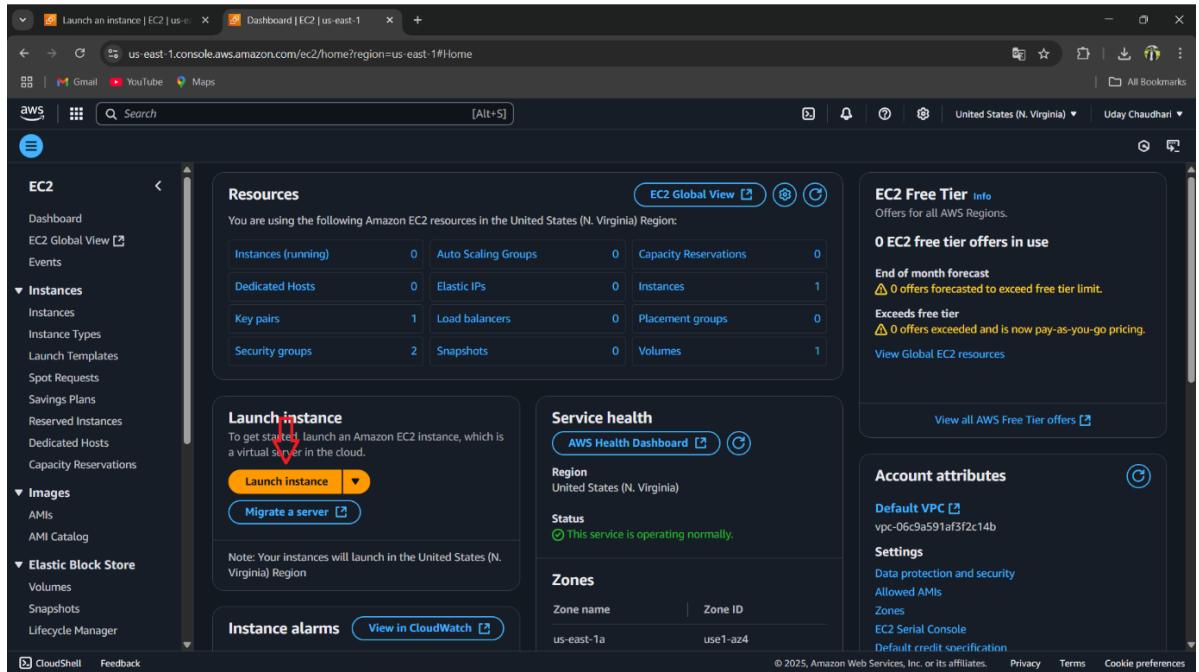


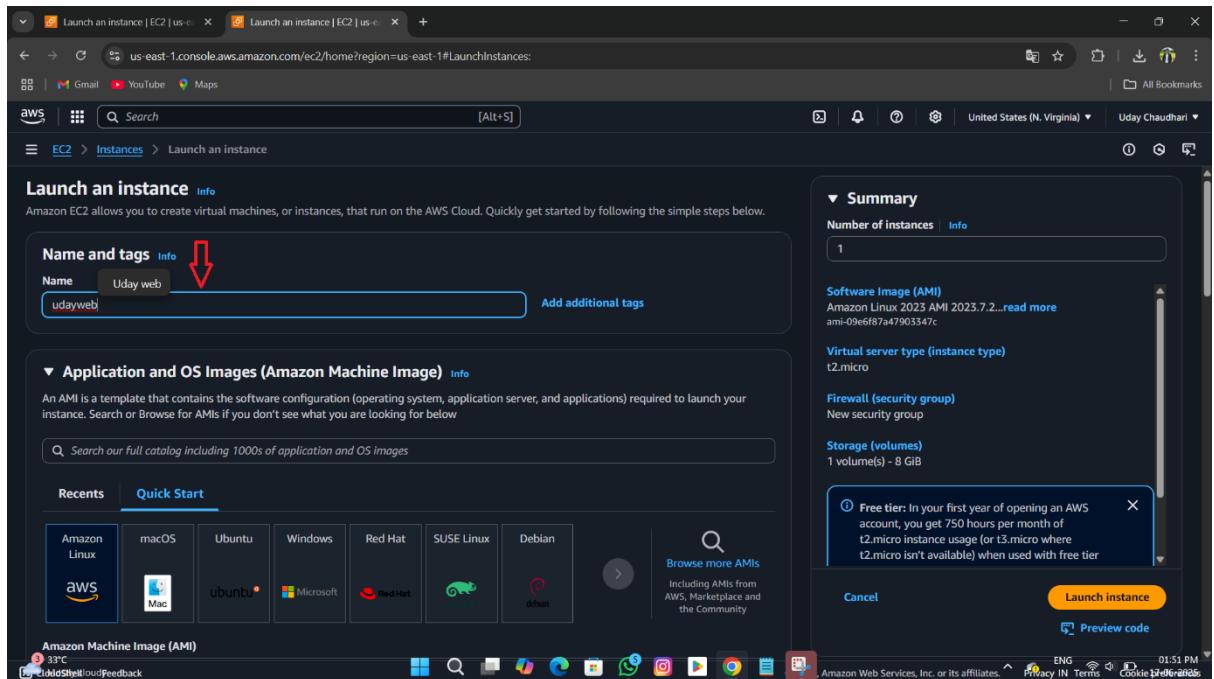
AWS Loadbalancer Handling Project

Step - 1 Creating Instance

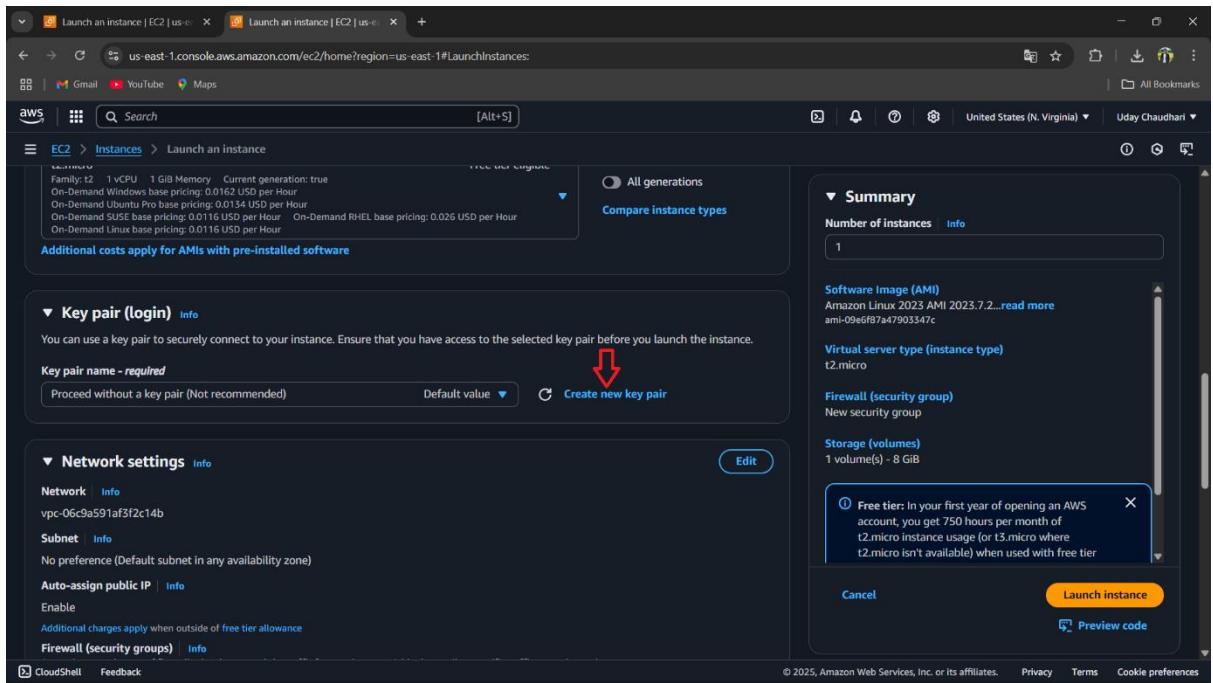
- Open AWS Control Panel
- Select Launch instance



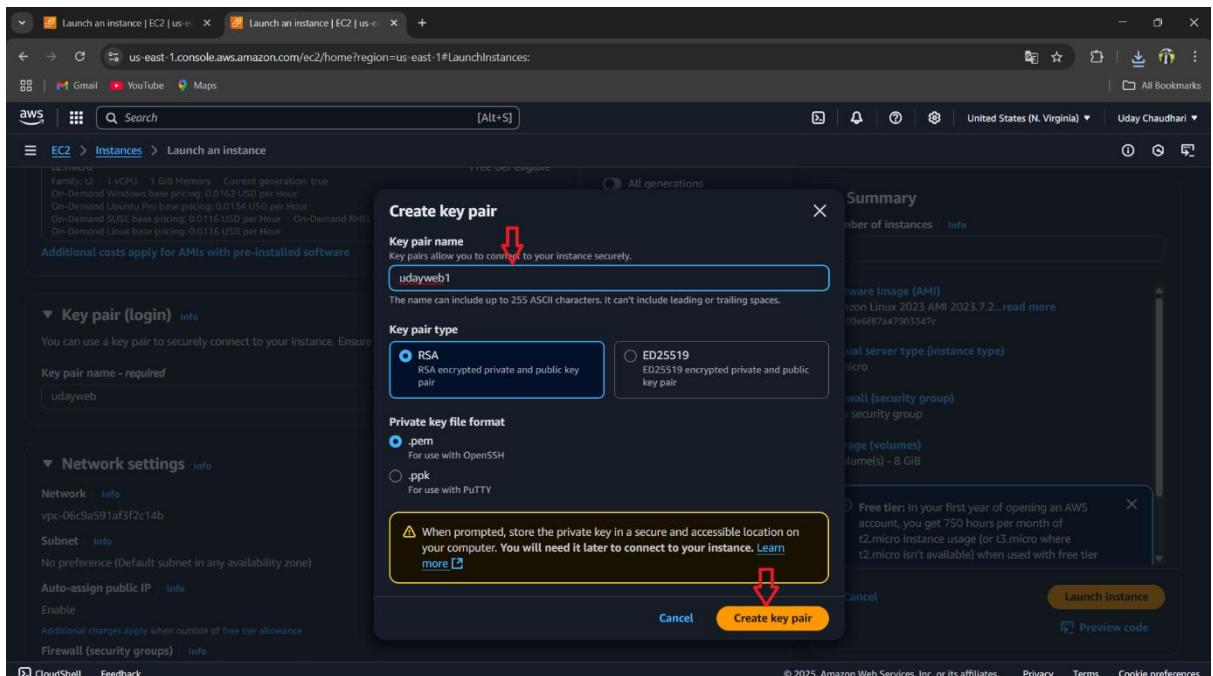
- Enter Instance Name



- Select Option Create New Key Pair

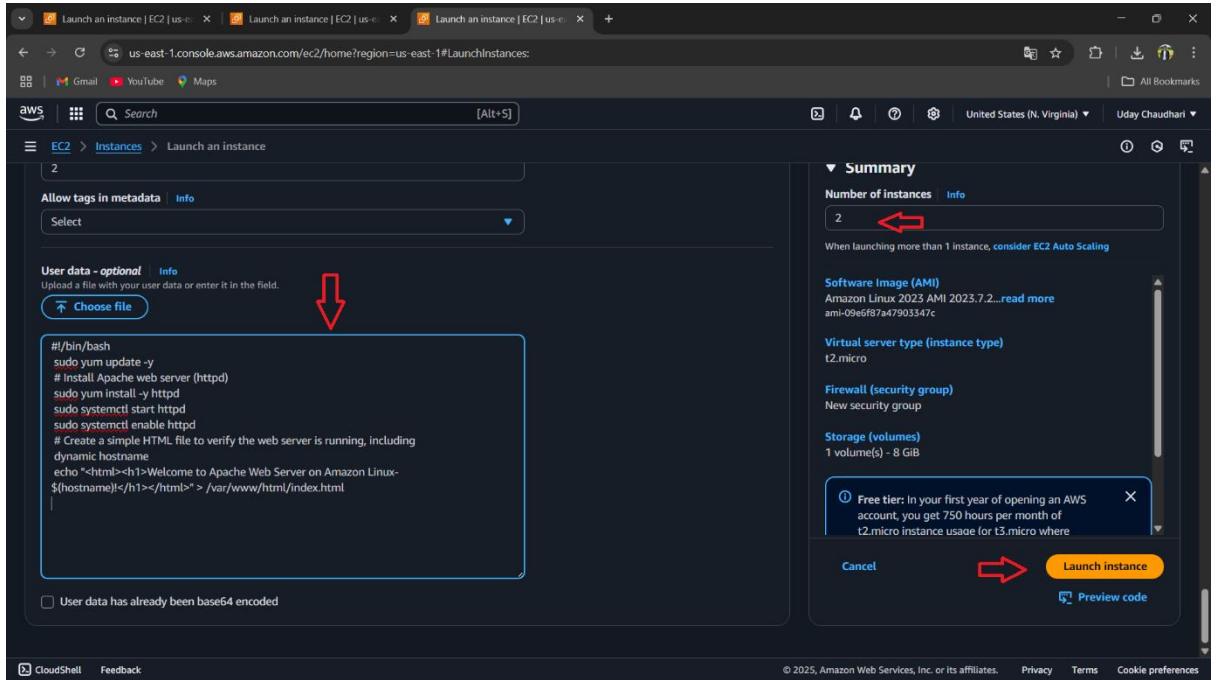


- Enter Key Pair Name
- Select Create Key Pair

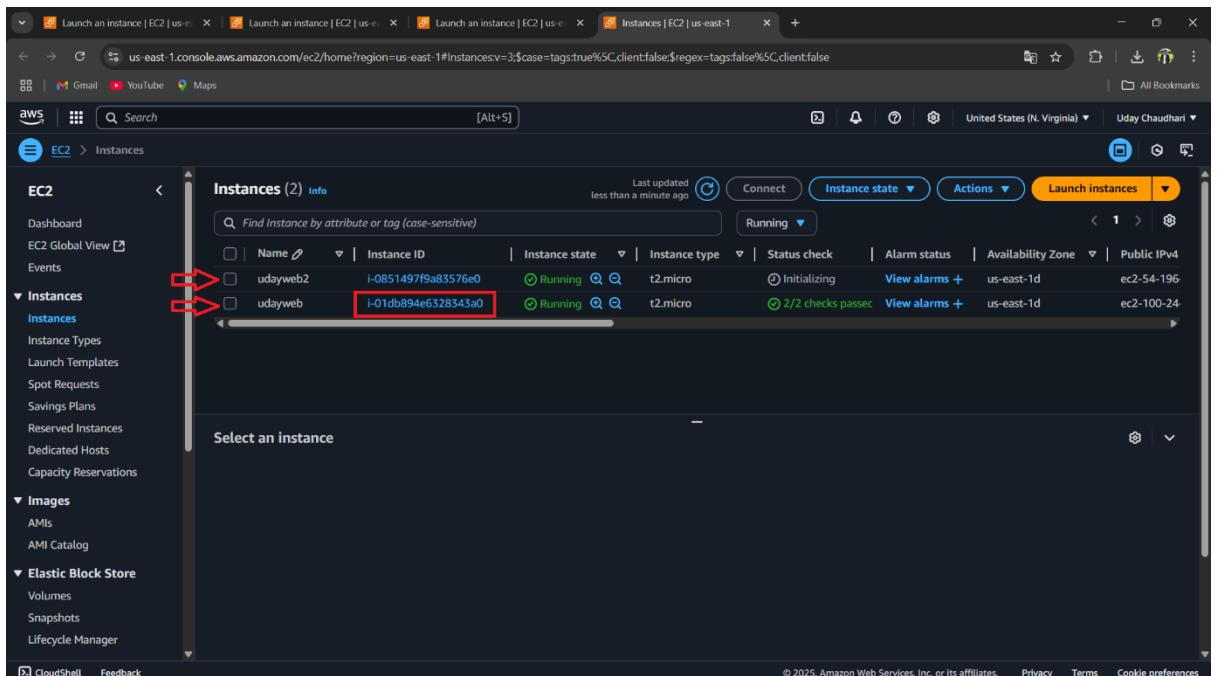


- Enter The WebSite Code In Blank box OR Select Choose File

- Select Number Of Instance 2 For Create 2 Instances At a Time
- Last Click On Launch Instance



- Go to Instance And You Can See Tow Instances Are Created
- Click First Instance Id



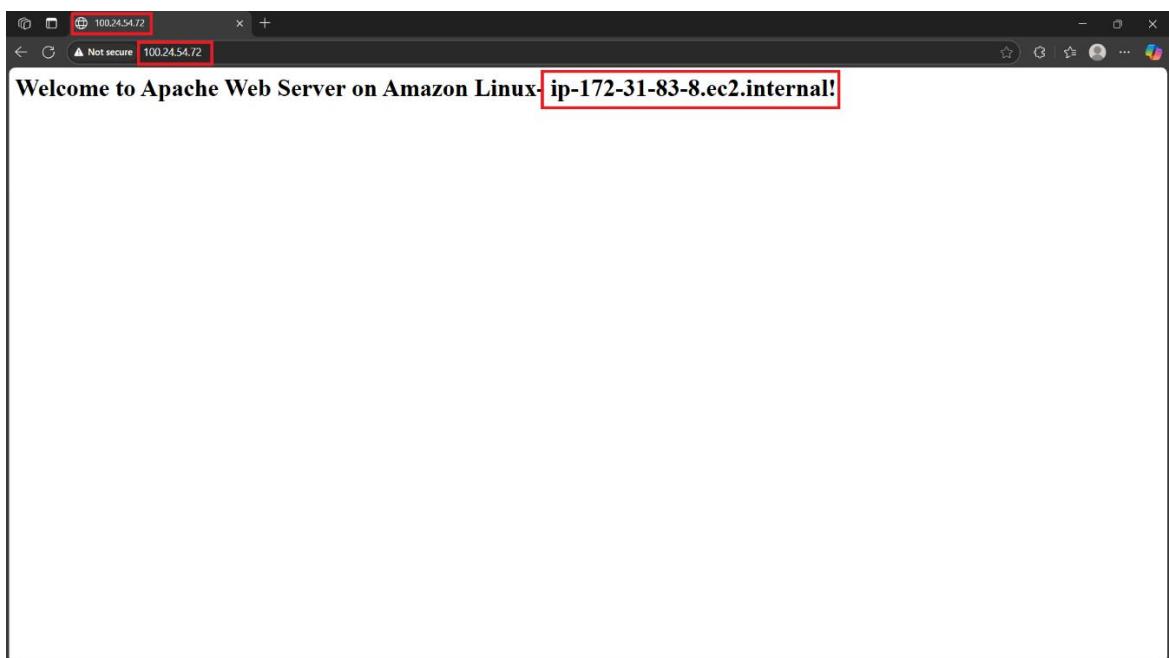
- Copy Public IPv4 address

The screenshot shows the AWS EC2 Instances details page for an instance named `i-01db894e6328343a0 (udayweb)`. The left sidebar shows navigation options like Dashboard, EC2 Global View, Events, Instances, Images, and Elastic Block Store. The main content area displays the instance summary for `i-01db894e6328343a0`. Key details include:

- Public IPv4 address:** `100.24.54.72` (highlighted with a red box)
- Instance state:** Running
- Private IP DNS name (IPv4 only):** `ip-172-31-83-8.ec2.internal`
- Instance type:** t2.micro
- VPC ID:** `vpc-06c9a591af3f2c14b`
- Subnet ID:** `subnet-0aabf254f43af3234`
- Instance ARN:** `arn:aws:ec2:us-east-1:943645054222:instance/i-01db894e6328343a0`

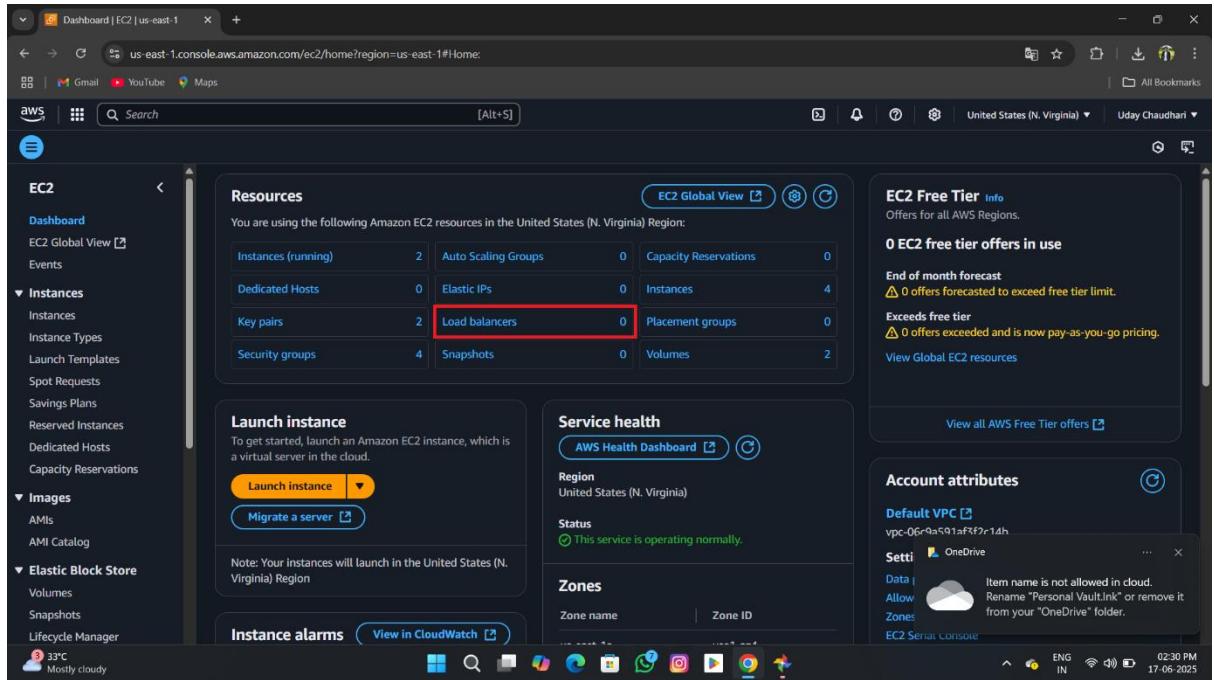
On the right side, there are sections for Private IPv4 addresses (172.31.83.8), Public DNS (ec2-100-24-54-72.compute-1.amazonaws.com), and Elastic IP addresses. A note about AWS Compute Optimizer is also present.

- Paste This IPv4 address On Chrome Browser
- You can See Your web is on running with unique ip address
- So your First Instance on running
- Check Second Instance on Running Follow this process on Second Instance

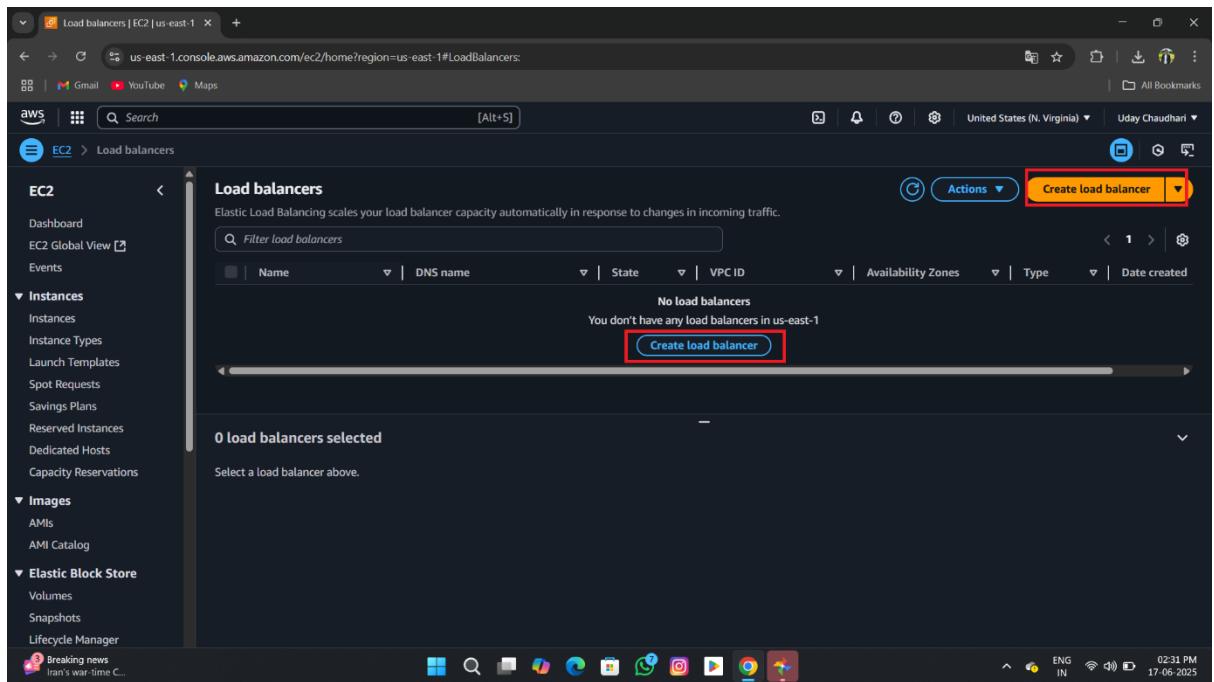


Step – 2 Creating Loadbalancer

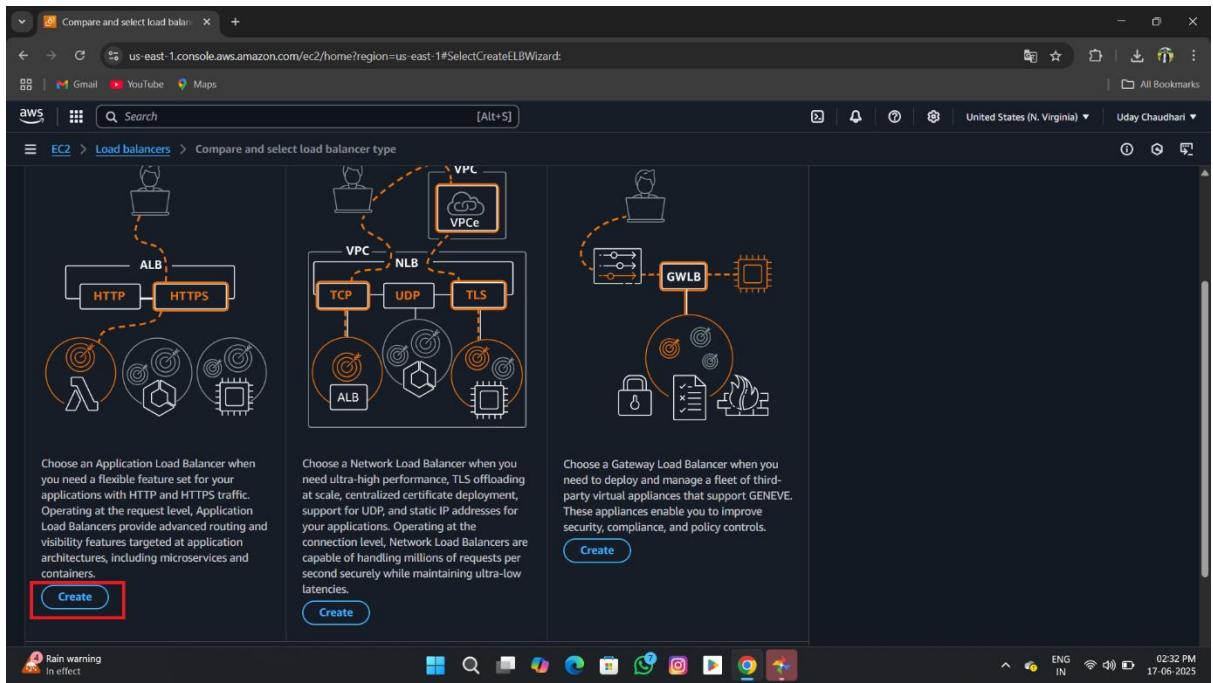
- Go to EC2 Dashboard and Click Load balancers



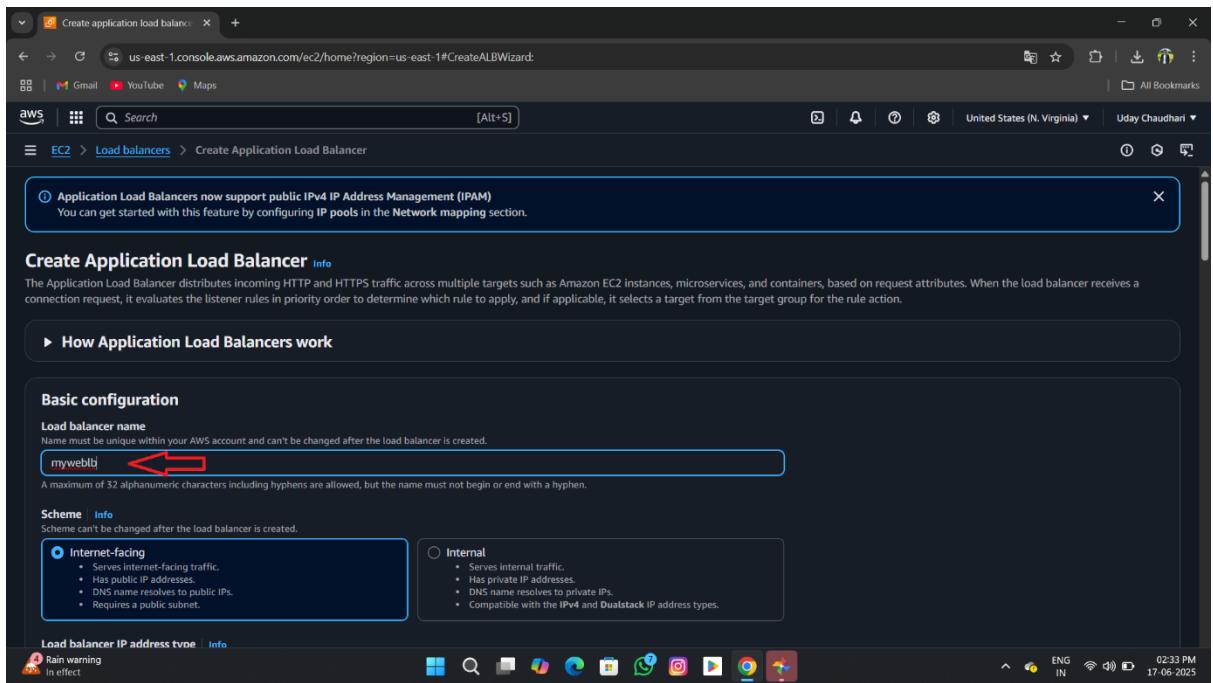
- Click On Create load balancer



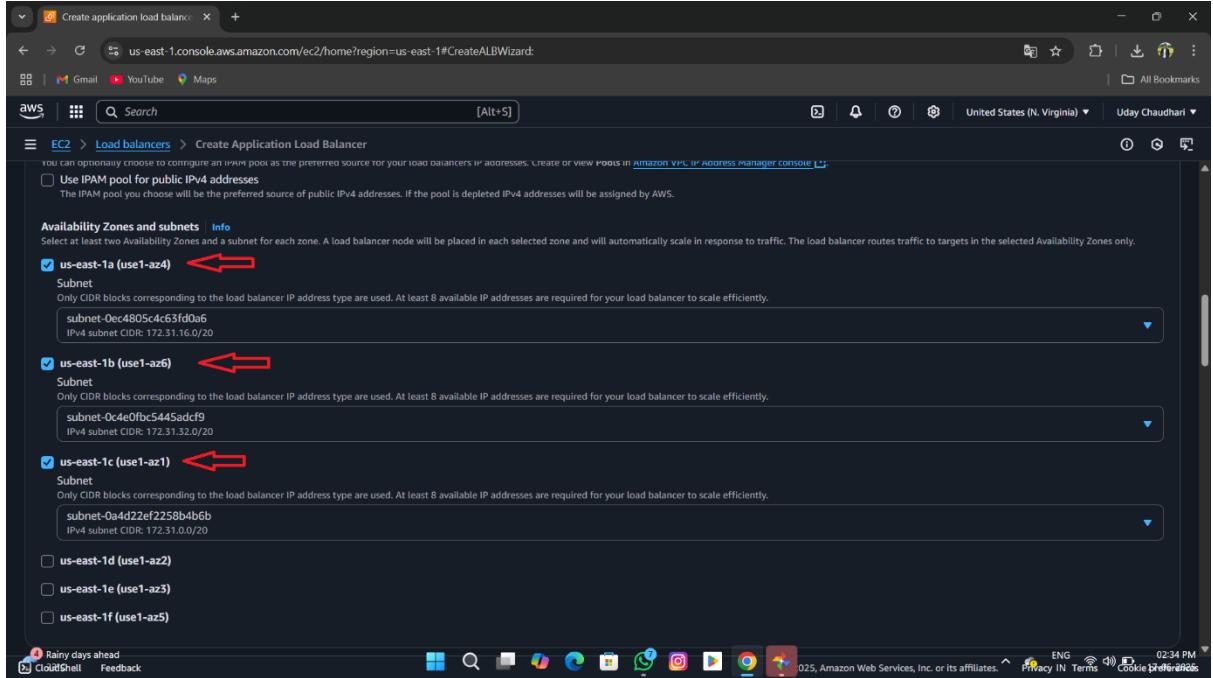
- Select First Option ALB (Application Load Balancer)
- Click Create Button



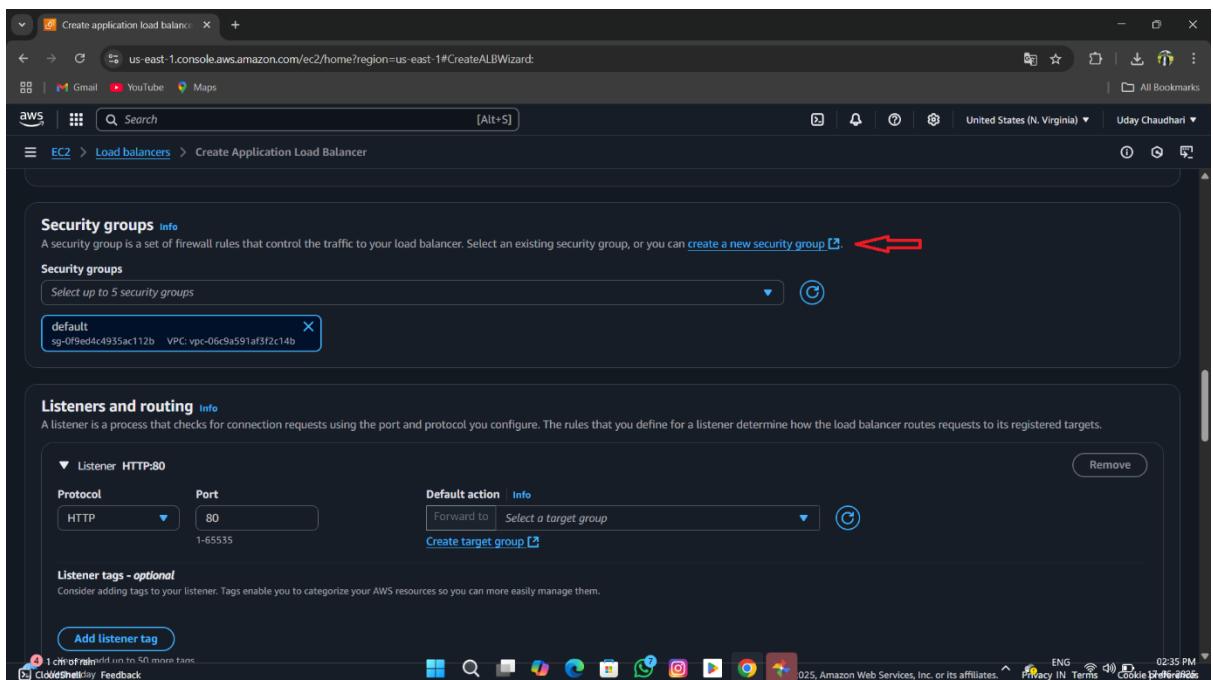
- Enter Load Balancer Name



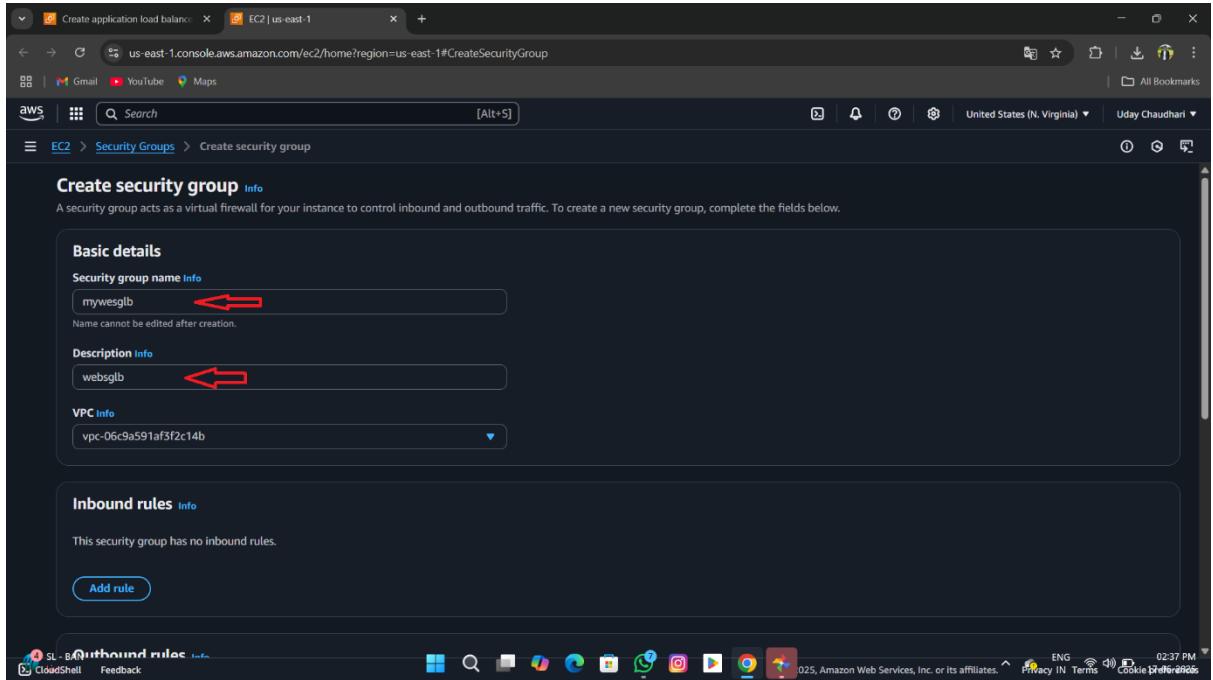
- Select Availability Zones and subnets (A , B , C)



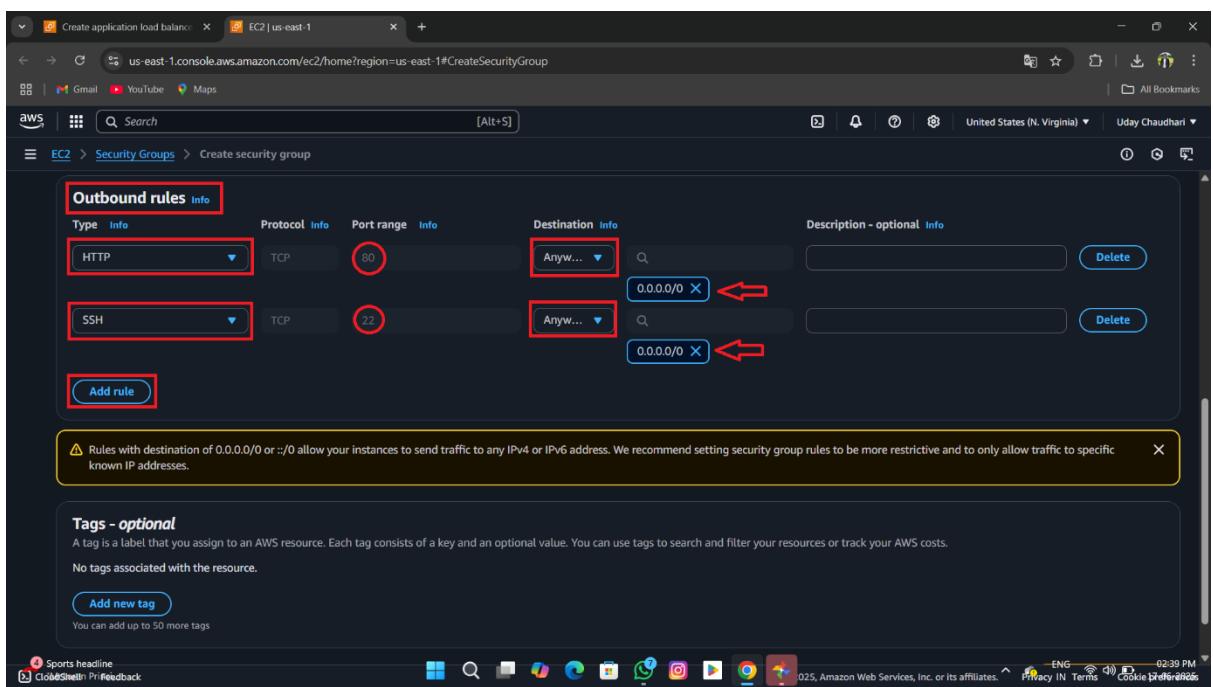
- Click on Create a New Security Group and Create Security Group



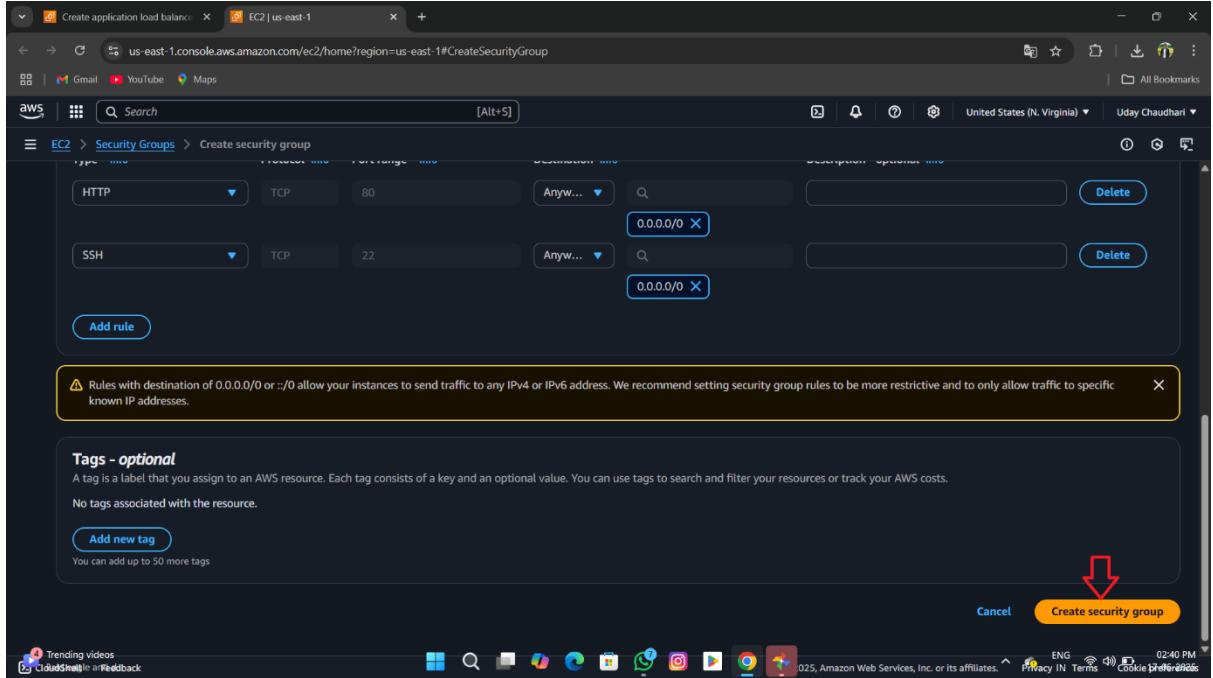
- Enter Security Group Name And Description



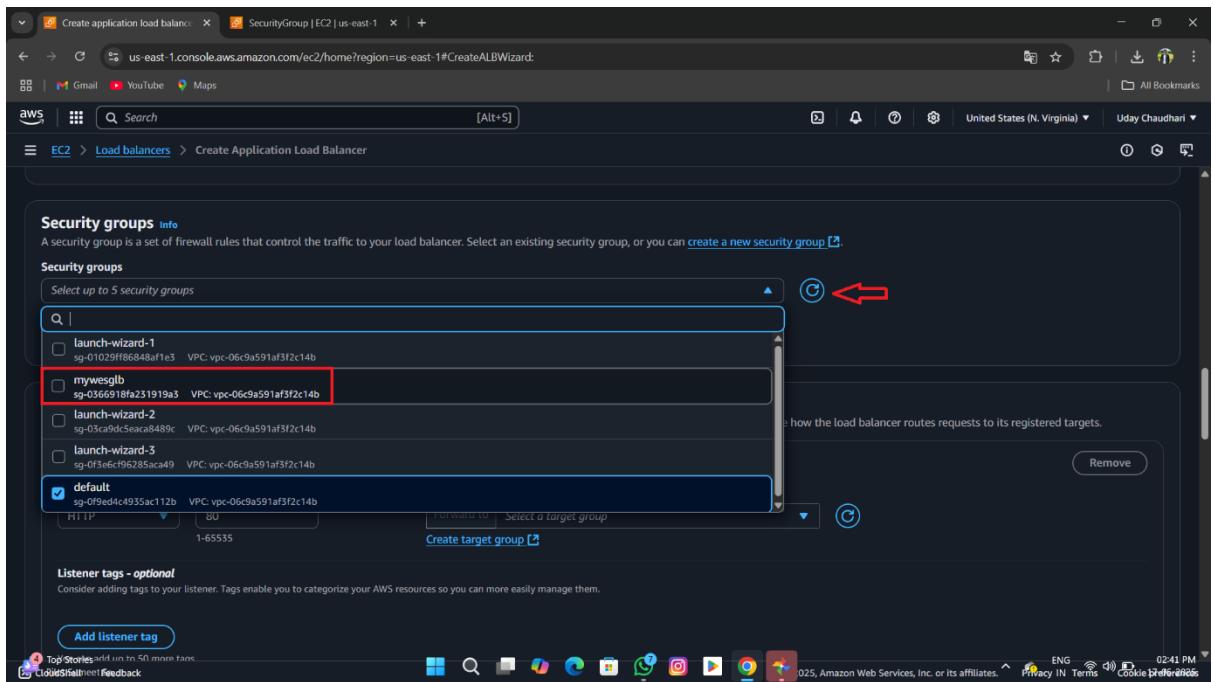
- Create Outbound rule using data in Image
- Click on Add rule



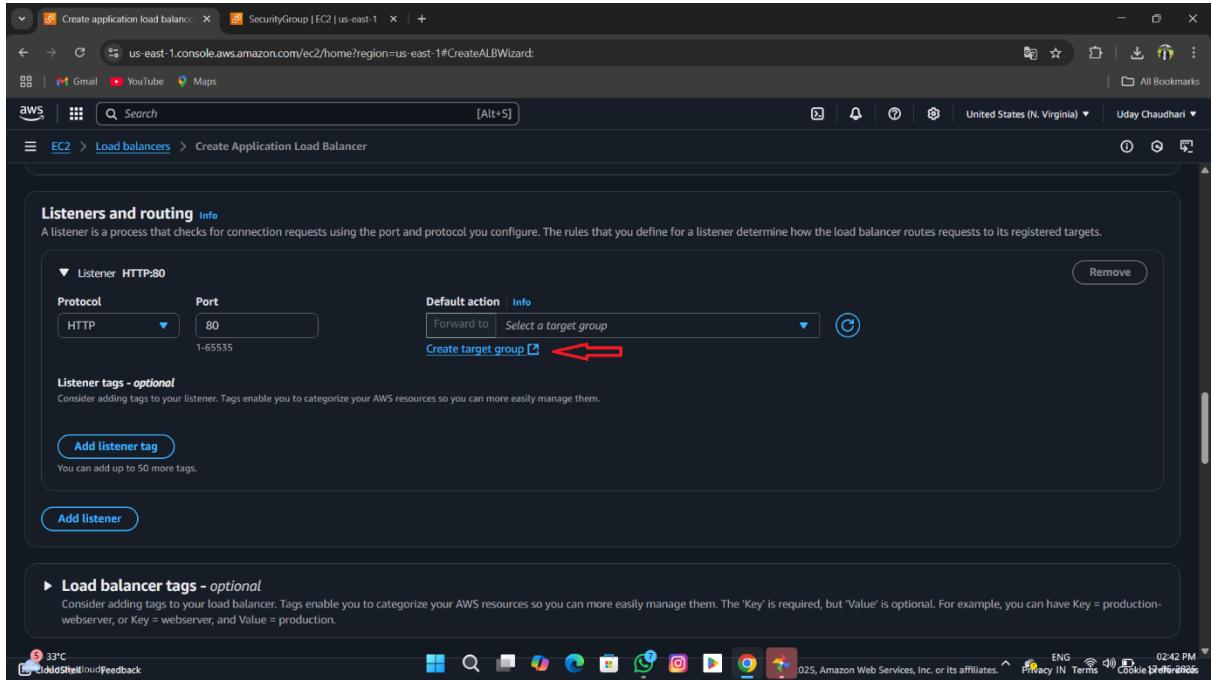
- Click on Create Security Group



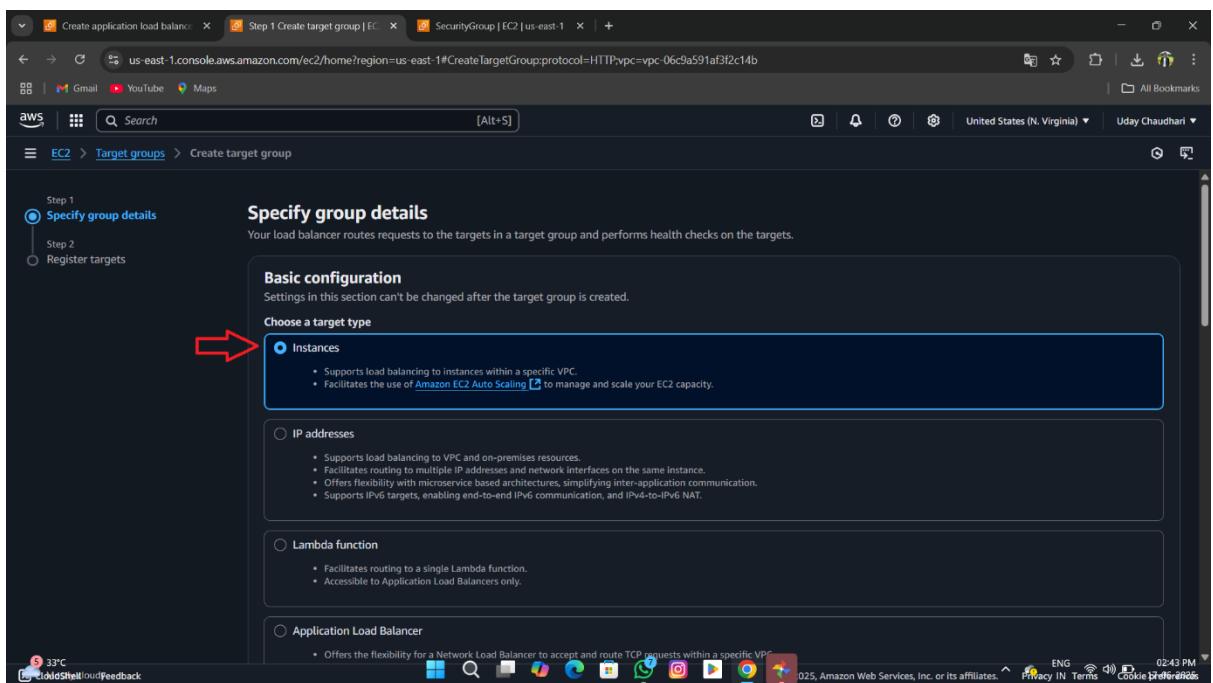
- Click Refresh Button And Select Security Group in List



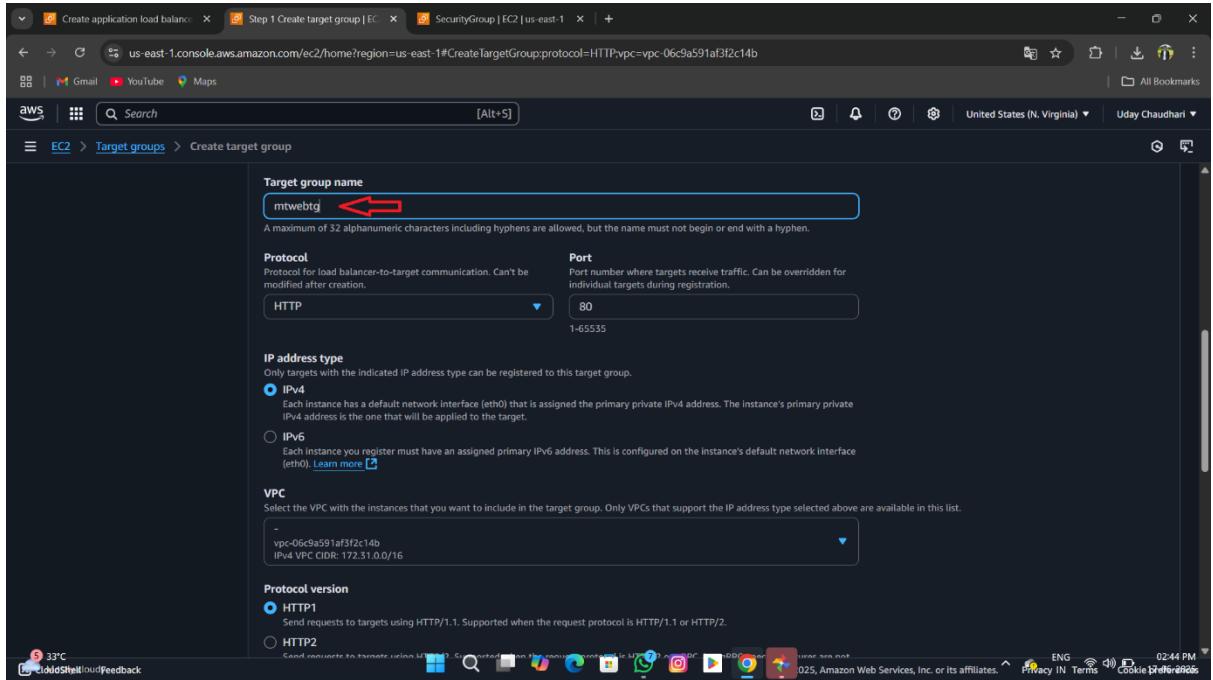
- Click on Create Target Group



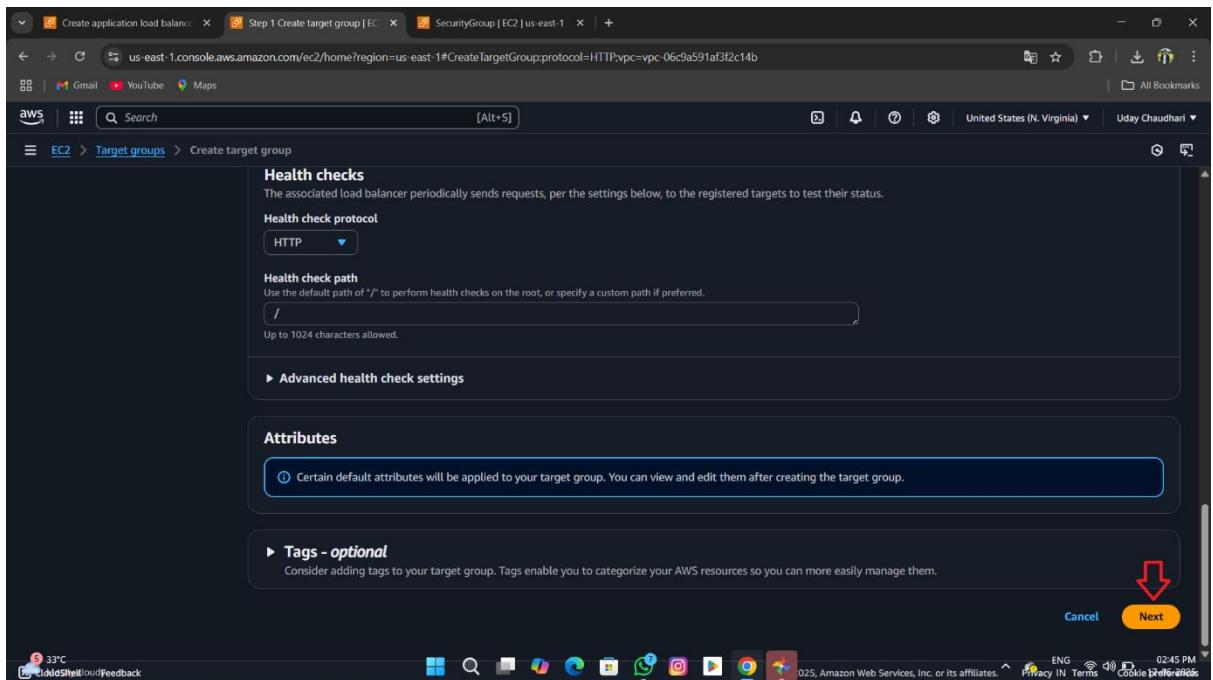
- Choose a Target Type – Instance



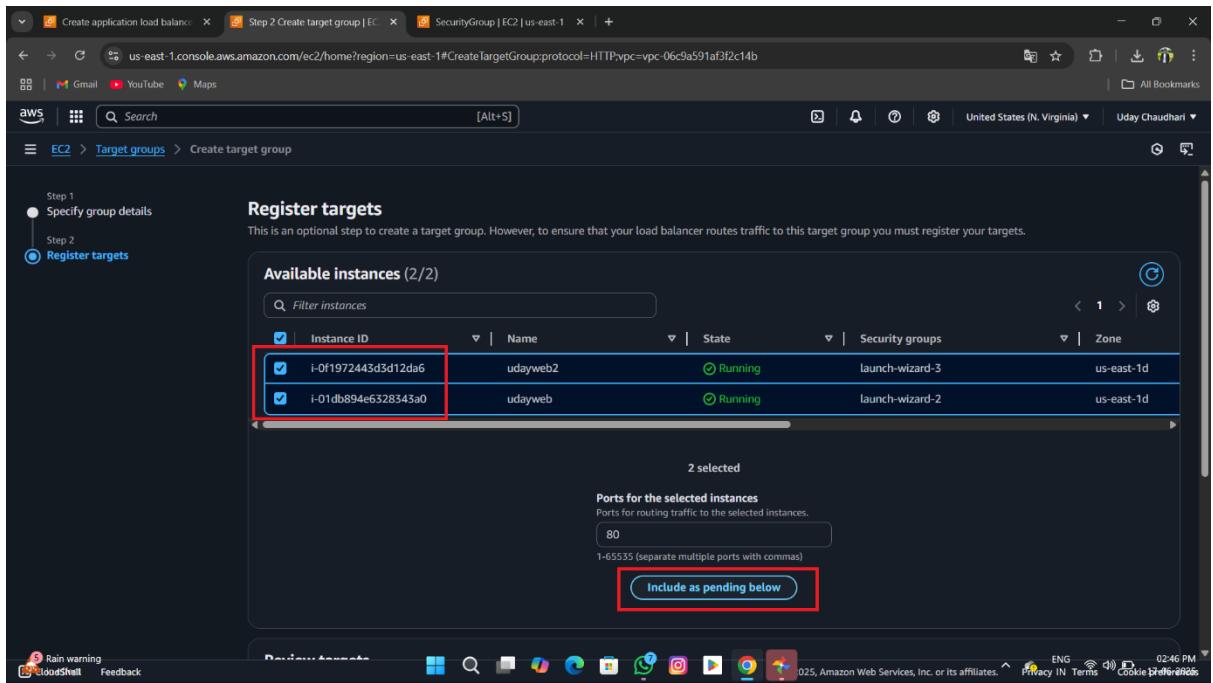
- Enter Target Group Name



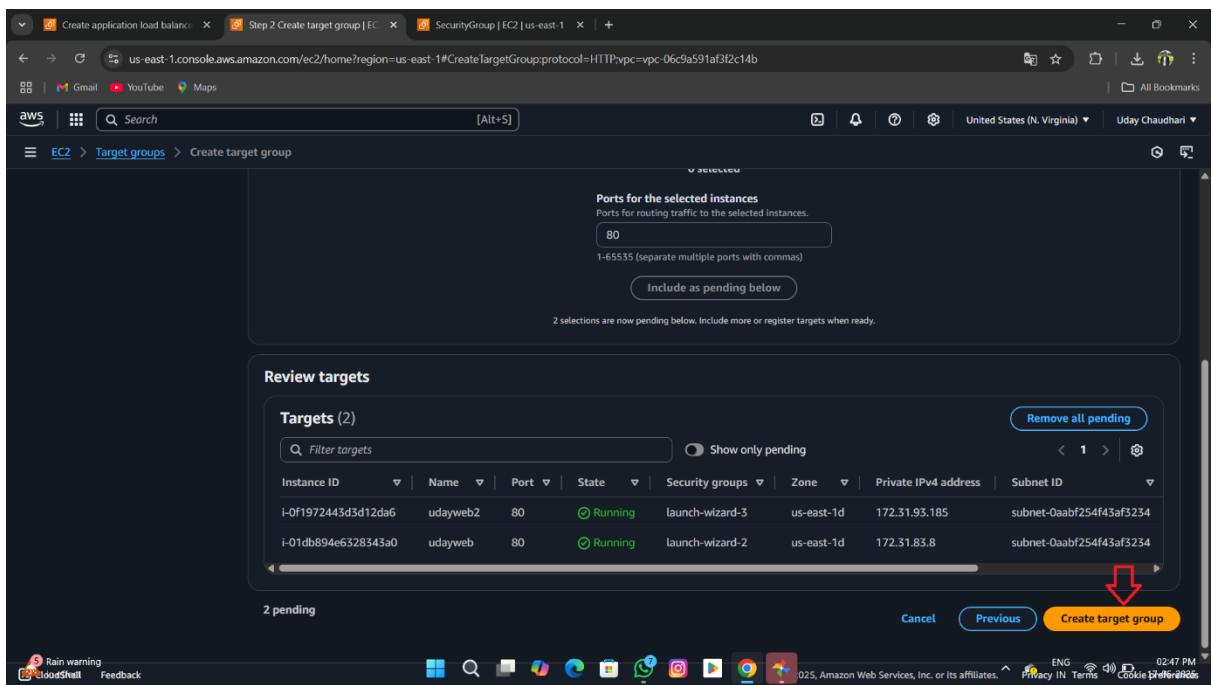
- Click on Next Button



- Select Two Instances In List That Show In Image
- Click on Include as pending below



- Click on Create Target Group



- You can see Your Target Group is Created
- Click on Loadbalancing tab

The screenshot shows the AWS EC2 Target groups page. A green success message box at the top states: "Successfully created the target group: mtwebtg. Anomaly detection is automatically applied to all registered targets. Results can be viewed in the Targets tab." The main table shows the following details:

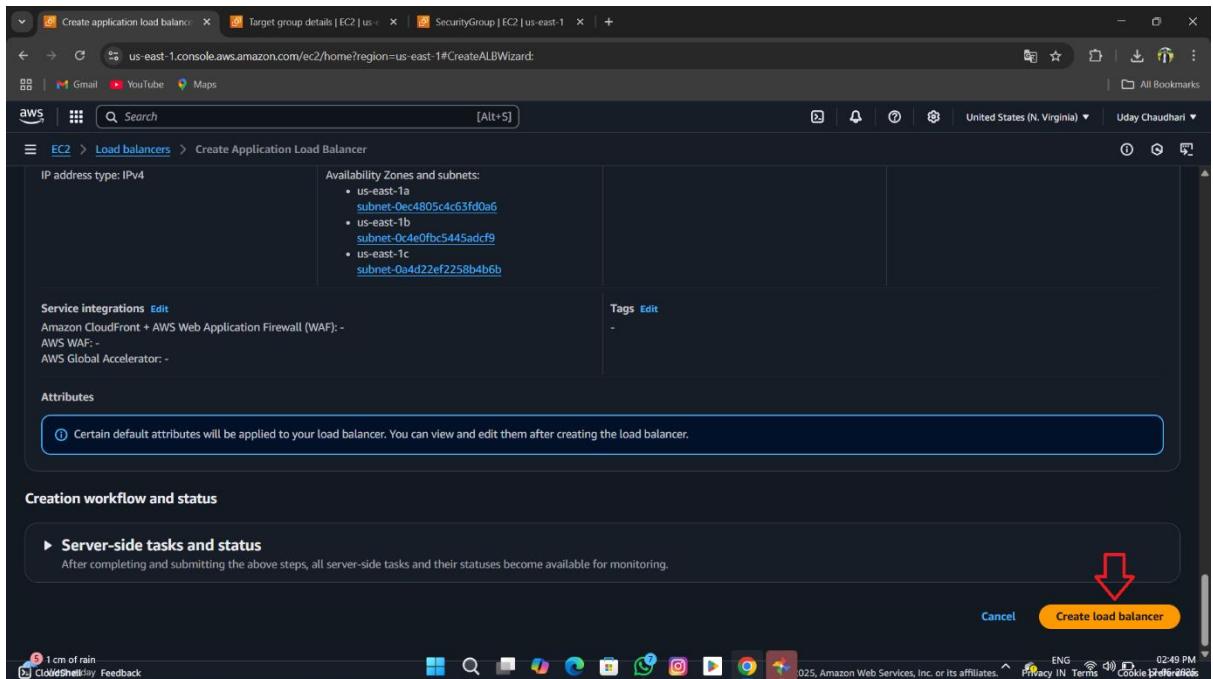
Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-06c9a591af3f2c14b
IP address type	Load balancer IPv4		
2 Total targets	0 Healthy 0 Unhealthy 0 Anomalous	2 Unused	0 Initial 0 Draining

Below the table, a section titled "Distribution of targets by Availability Zone (AZ)" is visible. At the bottom of the page, there are tabs for Targets, Monitoring, Health checks, Attributes, and Tags. The Targets tab is selected.

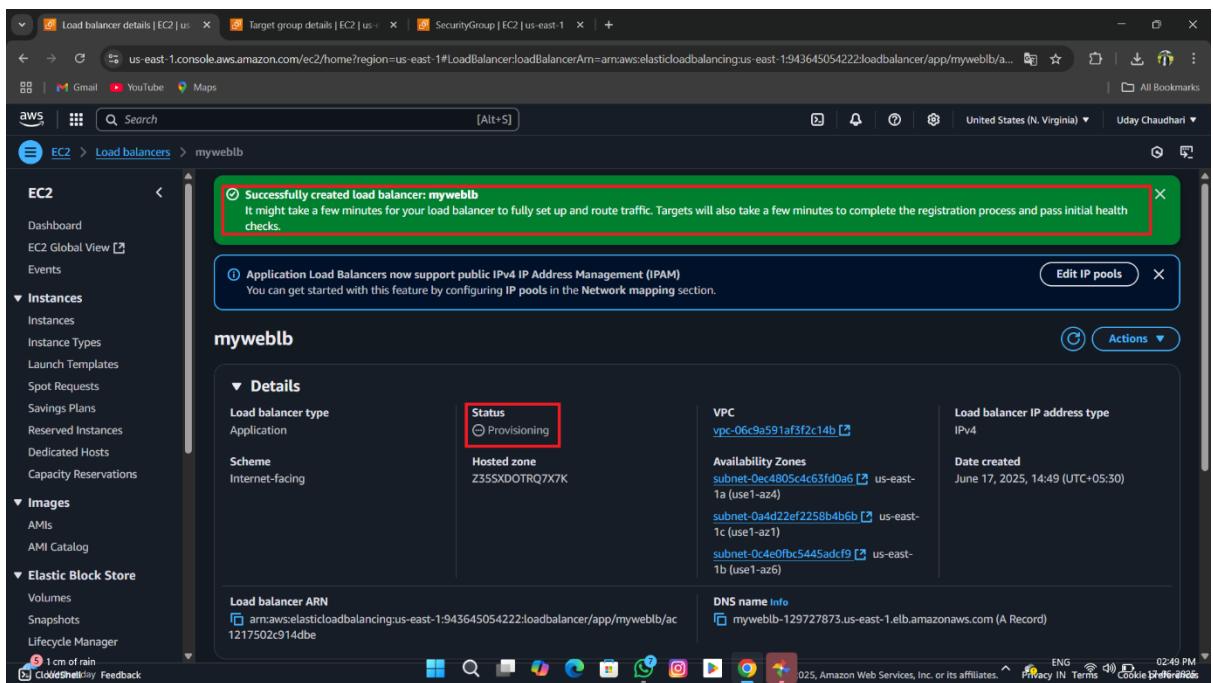
- Click On refresh Button And Refresh List
- Select Target Group On List

The screenshot shows the "Listeners and routing" step of the Create Application Load Balancer wizard. It displays a configuration for a "Listener HTTP:80". The "Default action" dropdown is set to "Forward to" and has a "Select a target group" option. A red arrow points to this dropdown. Below it, a search bar shows the target group "mtwebtg" selected. Other options in the dropdown include "Create target" and "mtwebtg" (Target type: Instance, IPv4). There is also a "Remove" button at the top right of the dropdown.

- Click on Create Load Balancer Button



- You Can See Your Loadbalancer is Created
- Check Status Active OR Provisionning



- After Status is Active than Copy DNS Name

The screenshot shows the AWS EC2 Load Balancer Details page for a load balancer named 'myweb-lb'. The 'Status' field is highlighted in red and shows 'Active'. The 'DNS name info' field, which contains the value 'myweb-lb-25532613.us-east-1.elb.amazonaws.com (A Record)', is also highlighted in red.

- Past DNS Name On Chrome Browser
- You Can See Same Web Page But Different Unique Ip Addresses

The screenshot shows a Chrome browser window with the URL 'myweb-lb-25532613.us-east-1.elb.amazonaws.com' in the address bar. The page content, which reads 'Welcome to Apache Web Server on Amazon Linux-ip-172-31-83-8.ec2.internal!', is also highlighted in red.

