

Configure Load Balancer:

First I will create a target group. Go to target group from side bar.

The screenshot shows the 'Create target group' wizard in the AWS Management Console. The 'Specify group details' step is active. The 'Name' field is populated with 'us-east-1-console.aws.amazon.com/ec2/home?region=us-east-1&CreateTargetGroup'. The 'VPC' dropdown is set to 'vpc-0f6e0f9855d74537'. The 'Protocol version' is set to 'HTTP1'. The 'Health check protocol' is set to 'HTTP'. The 'Health check path' is set to '/'. The 'Attributes' section shows 'Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.' The 'Tags - optional' section is expanded, showing 'Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.'

Step 1: Specify group details

Name: us-east-1-console.aws.amazon.com/ec2/home?region=us-east-1&CreateTargetGroup

VPC: vpc-0f6e0f9855d74537 (IPv4: 172.31.0.0/16)

Protocol version: HTTP1

Health check protocol: HTTP

Health check path: /

Attributes: Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.

Tags - optional: Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.

Buttons: Cancel, Next

Give it a name and configure the rest of options as required and click on “Next” button.

The screenshot shows the 'Create target group' wizard in the AWS Management Console. The 'Register targets' step is active. The 'Available instances' table shows two instances: 'Little Bit Advance Labs 1' and 'Little Bit Advance Labs 2'. The 'Targets' table shows two targets: 'Little Bit Advance Labs 1' and 'Little Bit Advance Labs 2'. The 'Review targets' section shows the selected targets and a 'Create target group' button.

Step 2: Register targets

Available instances (2)

Instance ID	Name	State	Security groups	Zone	Private (IPv4) address	Subnet ID	Launch time
i-06254866a2d775a3f	Little Bit Advance Labs 1	Running	launch-wizard-3	us-east-1b	172.31.26.194	subnet-0da3af4d981a655928	February 22, 2024, 22:27 (UTC+05:45)
i-0ae1ca1430ba30063	Little Bit Advance Labs 2	Running	launch-wizard-3	us-east-1b	172.31.22.151	subnet-0da3af4d981a655928	February 22, 2024, 22:27 (UTC+05:45)

0 selected

Ports for the selected instances: 80

Targets (2)

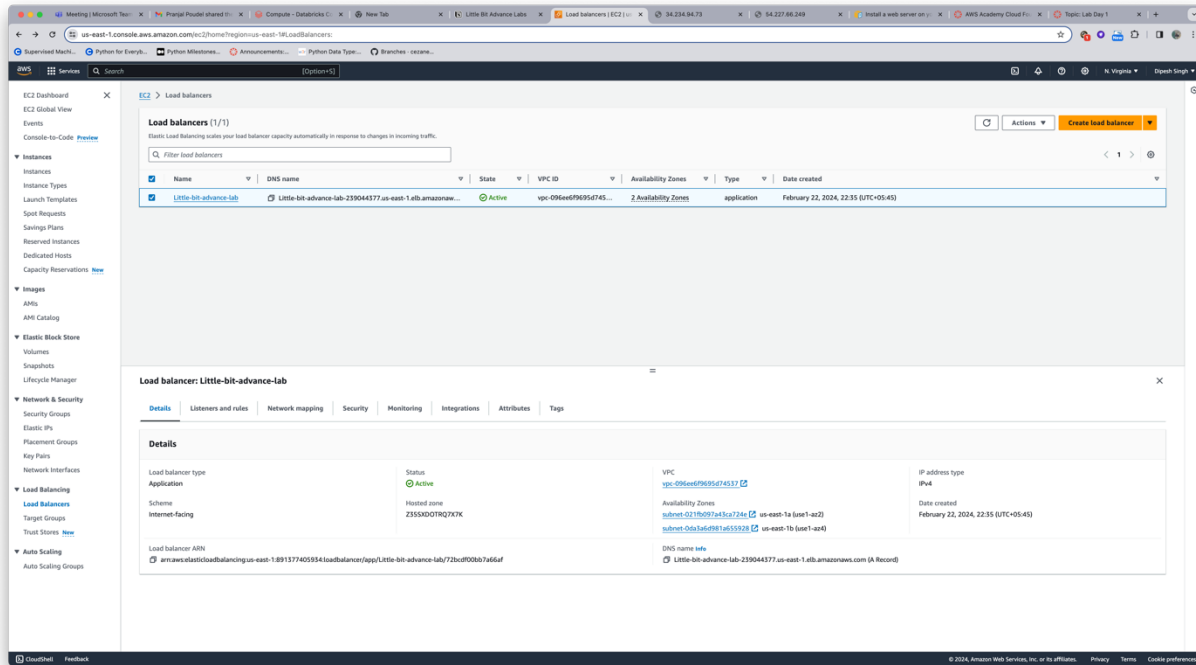
Instance ID	Name	Port	State	Security groups	Zone	Private (IPv4) address	Subnet ID	Launch time
i-06254866a2d775a3f	Little Bit Advance Labs 1	80	Running	launch-wizard-3	us-east-1b	172.31.26.194	subnet-0da3af4d981a655928	February 22, 2024, 22:27 (UTC+05:45)
i-0ae1ca1430ba30063	Little Bit Advance Labs 2	80	Running	launch-wizard-3	us-east-1b	172.31.22.151	subnet-0da3af4d981a655928	February 22, 2024, 22:27 (UTC+05:45)

2 pending

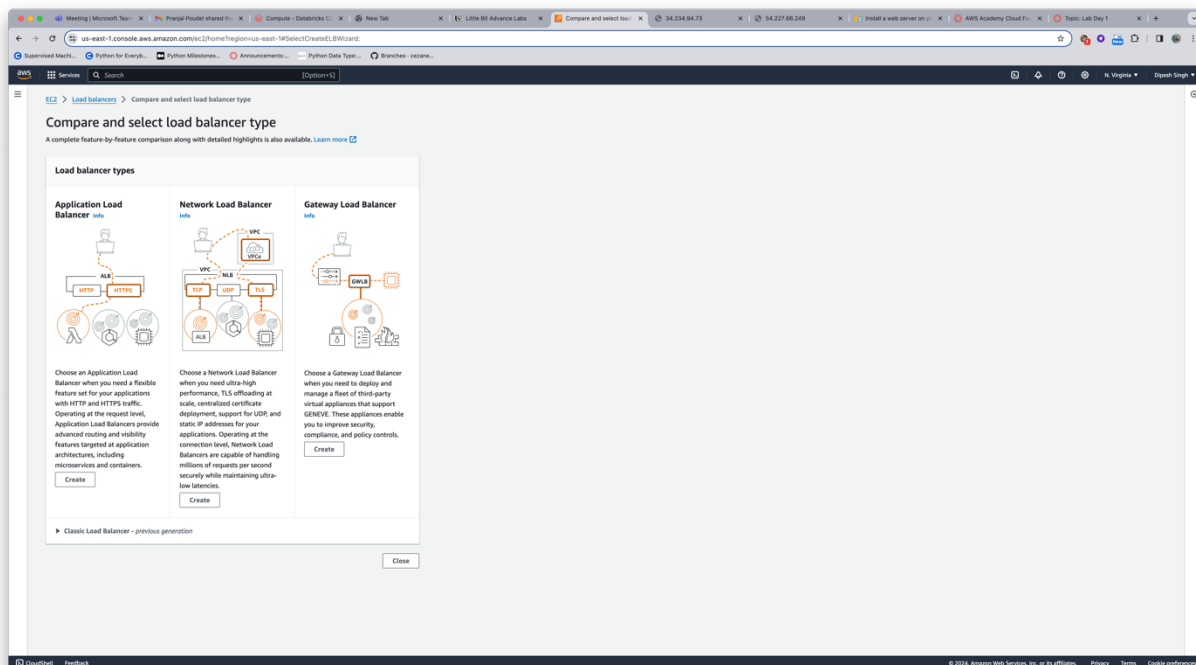
Buttons: Cancel, Previous, Create target group

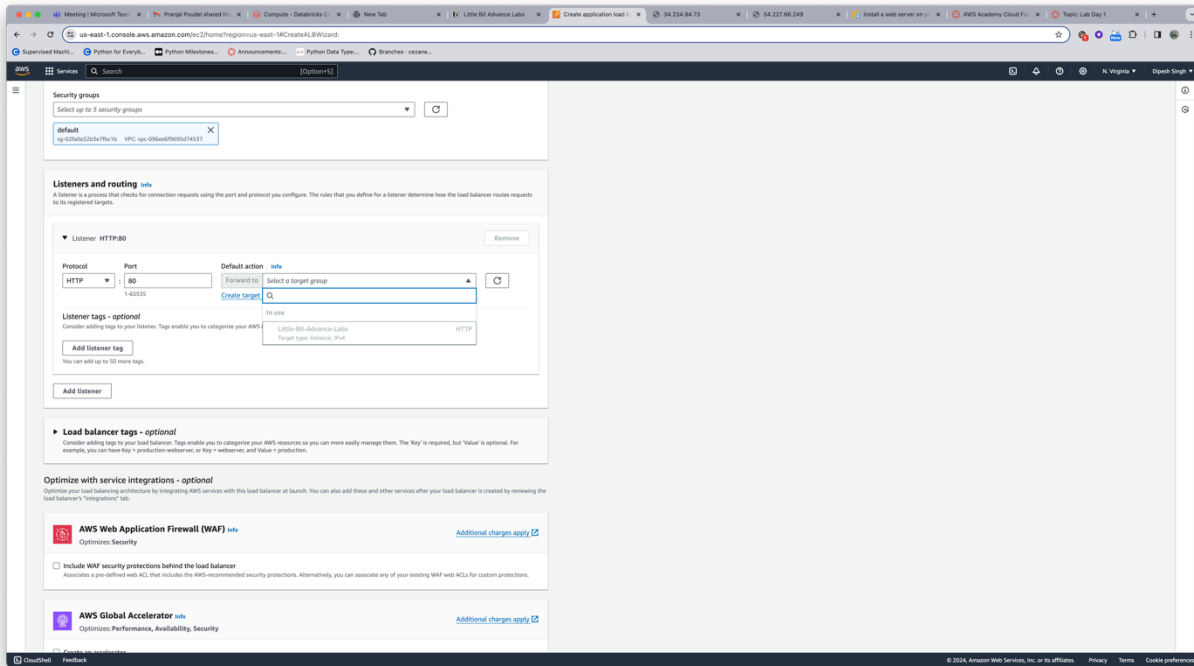
In this page, select the instances where you want to apply load balancing. Click on “Create target group” to successfully create target group.

Next go to load balancer page and click on “Create load balancer” button.

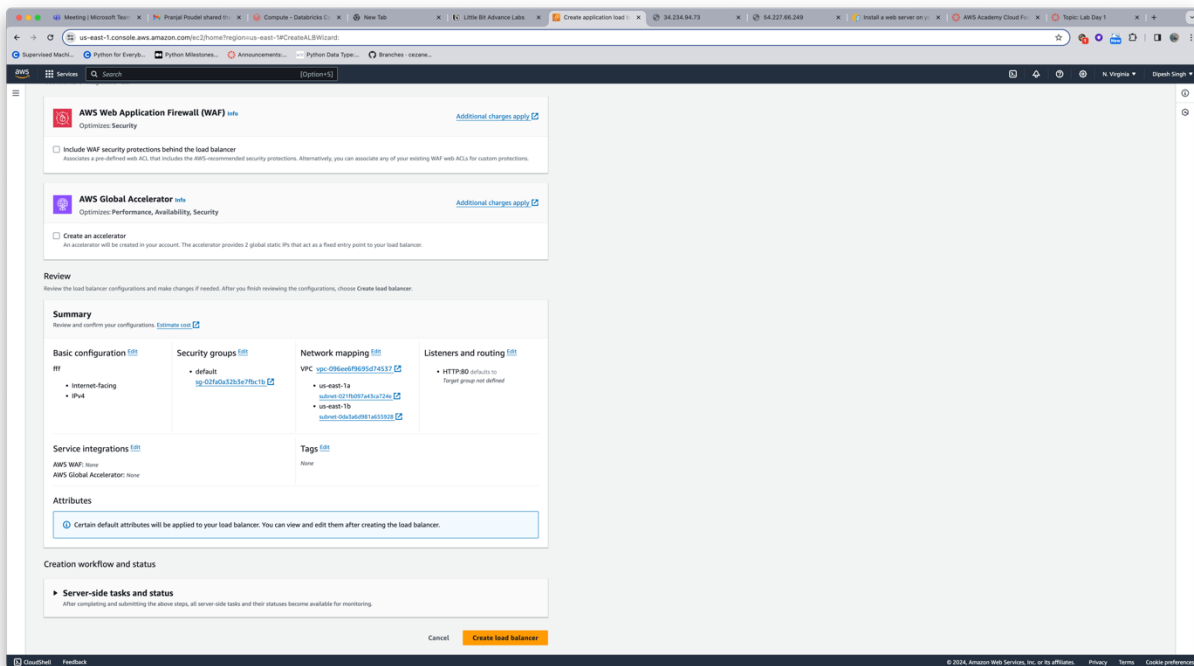


Select the type of load balancer. Since I am using it for instances, I will select Application Load Balancer.



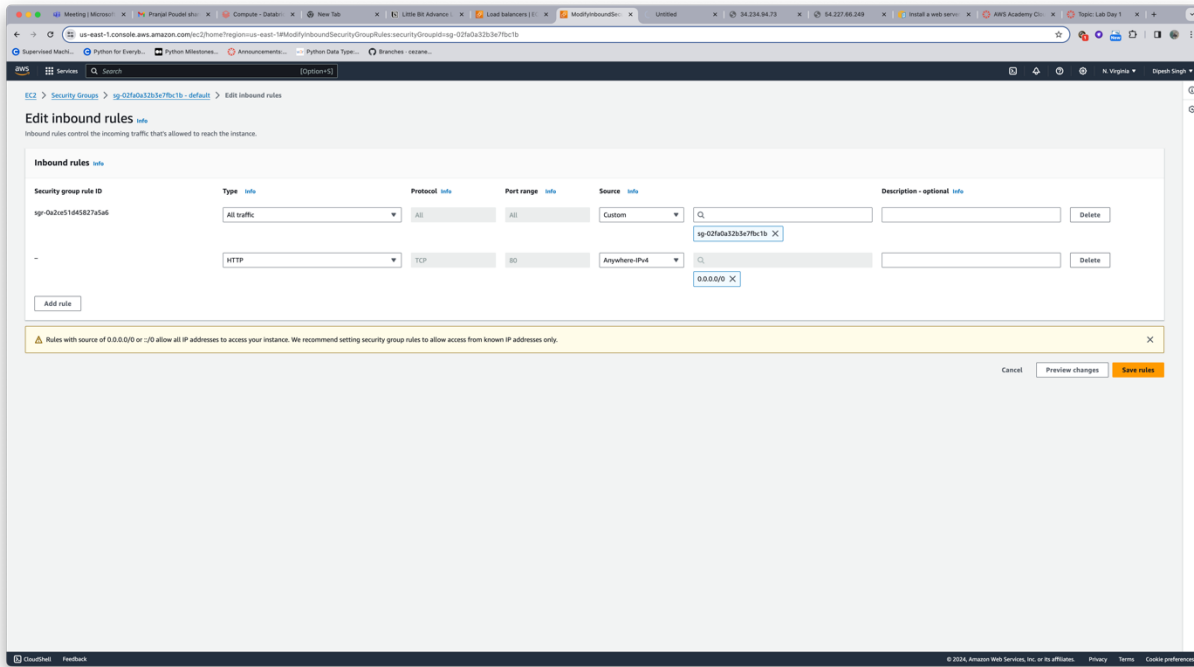


Configure the setting as per requirement. Attack the target group we create earlier.

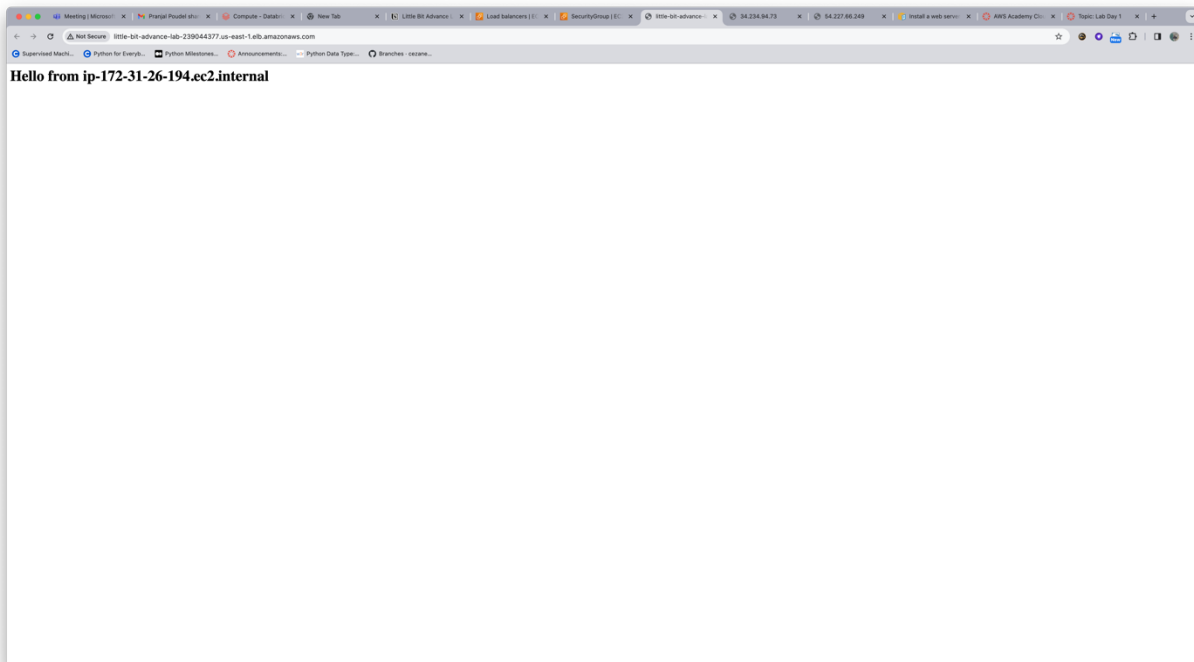


Review the settings and click “Create load balancer” button.

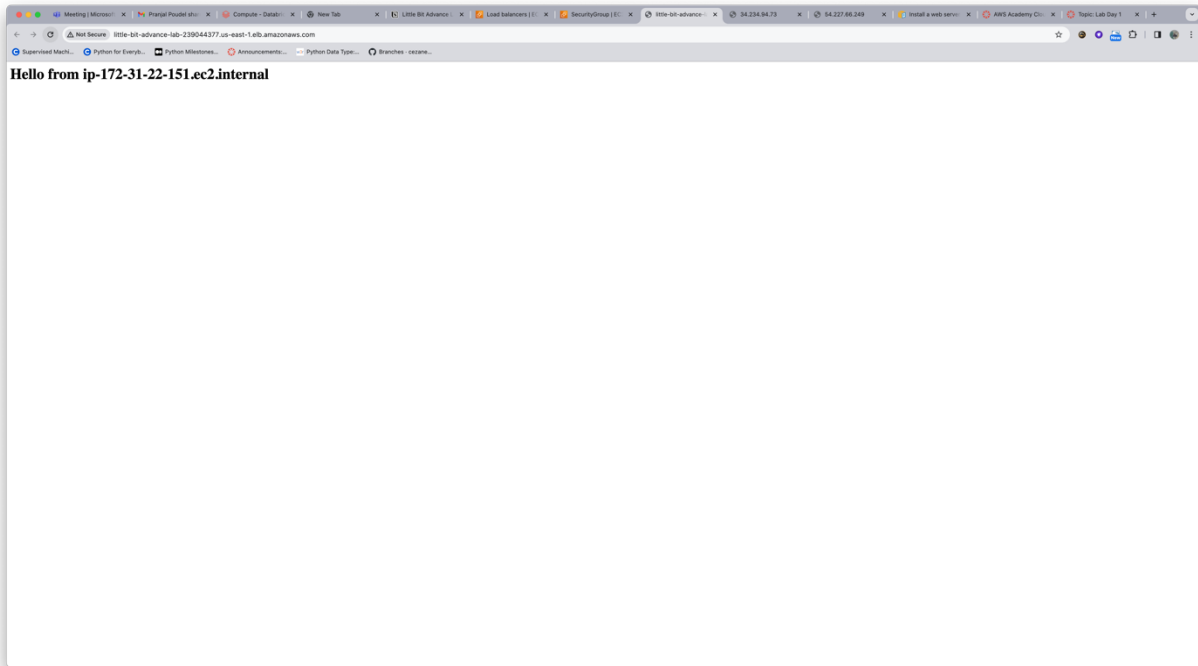
I will also add Http to the security group to access the website.



Testing the load balancer



The instance with ip 172-31-26-194 loads up initially. After refreshing the page for few times,



Load balancer diverted traffic to another instance with ip 172-31-22-151.