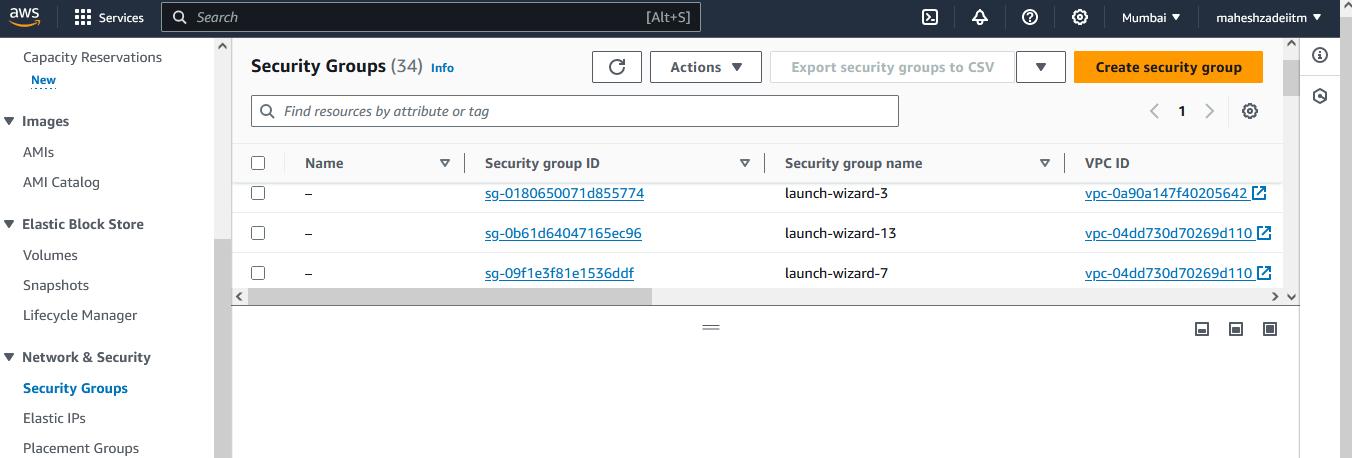
Dated 08-07-2-2024

**Elastic Load Balancer**

In AWS 4 LB >>> 3 are active and 1 is almost sunset

**ELB Lab**

1 - Create a Dedicated SG with HTTP protocol



Open Security Groups >> Create

A screenshot of a computer

Description automatically generated

Security group name >> Mahesh-SG

A screenshot of a computer

Description automatically generated

Choose your VPC

A screenshot of a computer

Description automatically generated

Inbound rules >>> add rule

A screenshot of a computer

Description automatically generated

Type >>> http

Source >> anywhere

A screenshot of a computer

Description automatically generated

Create SG

A screenshot of a computer

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A screenshot of a computer

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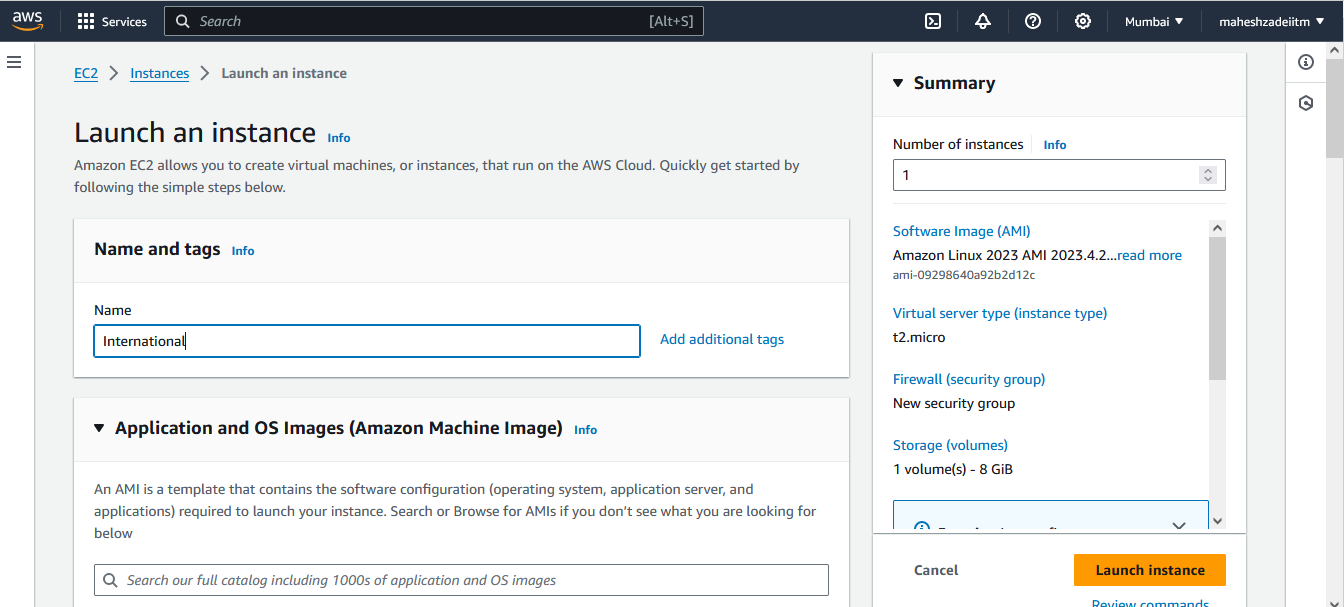
A screenshot of a computer

Description automatically generated

Now Go to AWS Console EC2 Instance

2 - Launch my international EC2

Name - international

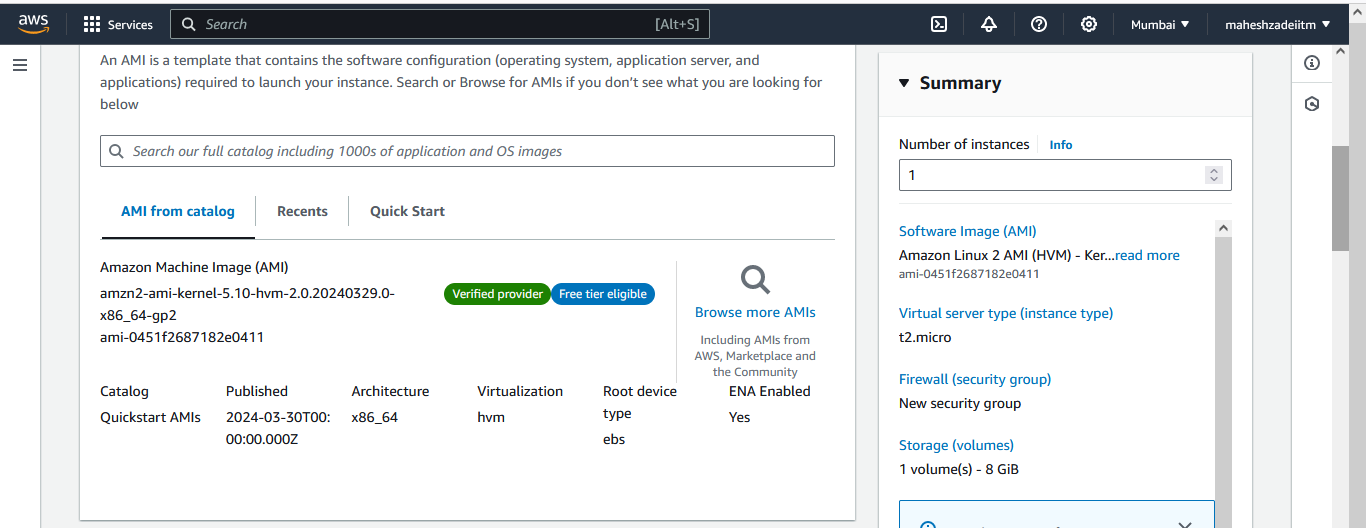


Browsee in AMI : AMI - "Amazon Linux 2" (Browse AMI)---Select

A screenshot of a computer

Description automatically generated

Instance type - t2.micro



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Description automatically generated

Keypair Mumbai Select

A screenshot of a computer

Description automatically generated

Choose your VPC and Choose Public Subnet Enable Public IP

A screenshot of a computer

Description automatically generated

Choose SG which you have created above >>> Select existing security group

A screenshot of a computer

Description automatically generated

Click on Advanced details >>> Scroll all the way down >>> update your user data

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A screenshot of a computer

Description automatically generated

Launch Instance

A screenshot of a computer

Description automatically generated

3 - Launch my domestic EC2

Name - domestic

A screenshot of a computer

Description automatically generated

AMI - "Amazon Linux 2" (Browse AMI)

A screenshot of a computer

Description automatically generated

Instance type - t2.micro

A screenshot of a computer

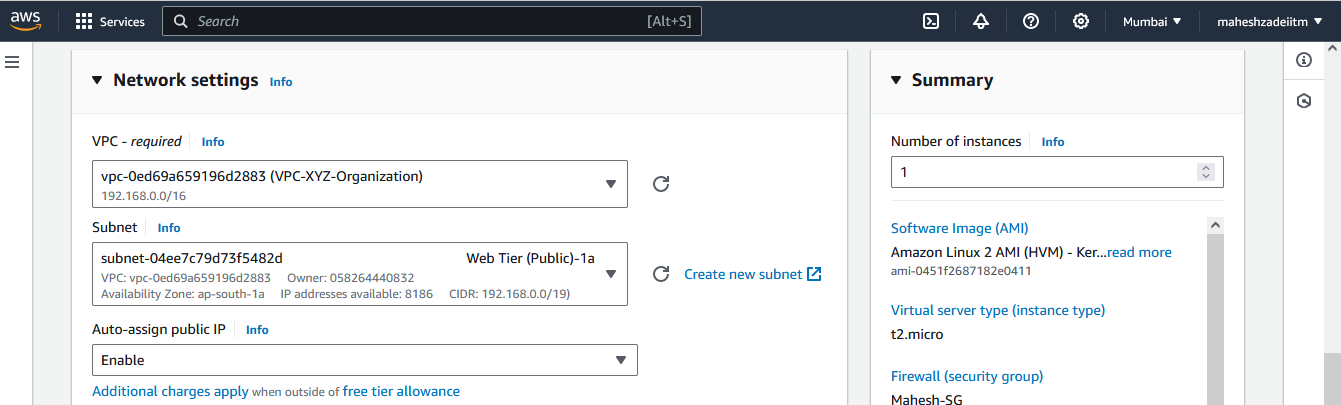
Description automatically generated

Keypair choose

A screenshot of a computer

Description automatically generated

Choose your VPC ,Choose Public Subnet ,Enable Public IP



Choose SG which you have created above >>> Select existing security group

A screenshot of a computer

Description automatically generated

Click on Advanced details >>> Scroll all the way down >>> update your user data

A screenshot of a computer

Description automatically generated

Launch Instance

A screenshot of a computer

Description automatically generated

4 - Copy your individual Public Ips and try to access them

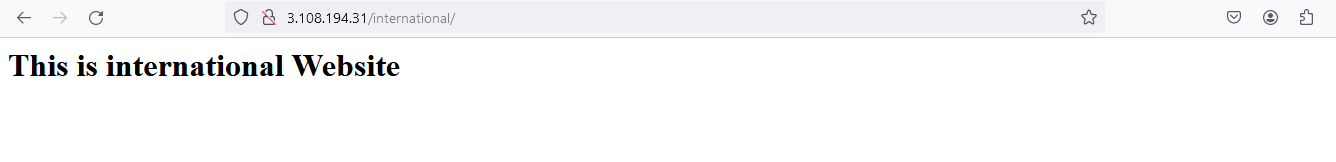
A screenshot of a computer

Description automatically generated

A screenshot of a test page

Description automatically generated

Type International after the IP address in the browser



A screenshot of a computer

Description automatically generated

Type domestic after the IP address in the browser

A white rectangular object with a black border

Description automatically generated with medium confidence

5 - Create a International TG

A screenshot of a computer

Description automatically generated

Create target group

Choose a target type >>> Instance

A screenshot of a computer

Description automatically generated

Target group name >>>> international

A screenshot of a computer

Description automatically generated

Protocol : Port >>>> HTTP

A screenshot of a computer

Description automatically generated

VPC >>>> Choose your VPC

A screenshot of a computer

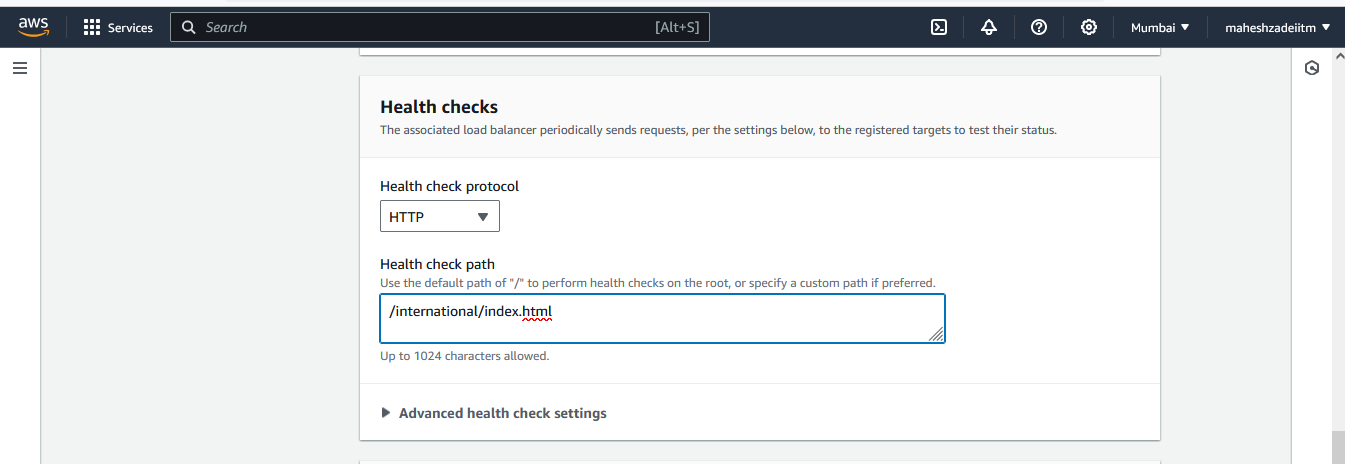
Description automatically generated

Health checks >>>

Health check protocol >>> HTTP

Health check path >>>>international/index.html

Please Note - There should be only one "/", double check



Next

A screenshot of a computer

Description automatically generated

Choose your International from your Available Instances >>> Include as pending below

A screenshot of a computer

Description automatically generated

Create target group

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

6 - Create a domestic TG

Create target group

A screenshot of a computer

Description automatically generated

Choose a target type >>> Instance

A screenshot of a computer

Description automatically generated

Target group name >>>> domestic

A screenshot of a computer

Description automatically generated

Protocol : Port >>>> HTTP

A screenshot of a computer

Description automatically generated

VPC >>>> Choose your VPC

A screenshot of a computer

Description automatically generated

Health checks >>>

Health check protocol >>> HTTP

Health check path >>>>domestic/index.html

Please Note - There should be only one "/", double check

A screenshot of a computer

Description automatically generated

Next

A screenshot of a computer

Description automatically generated

Choose your domestic from your Available Instances >>> Include as pending below

A screenshot of a computer

Description automatically generated

Create target group

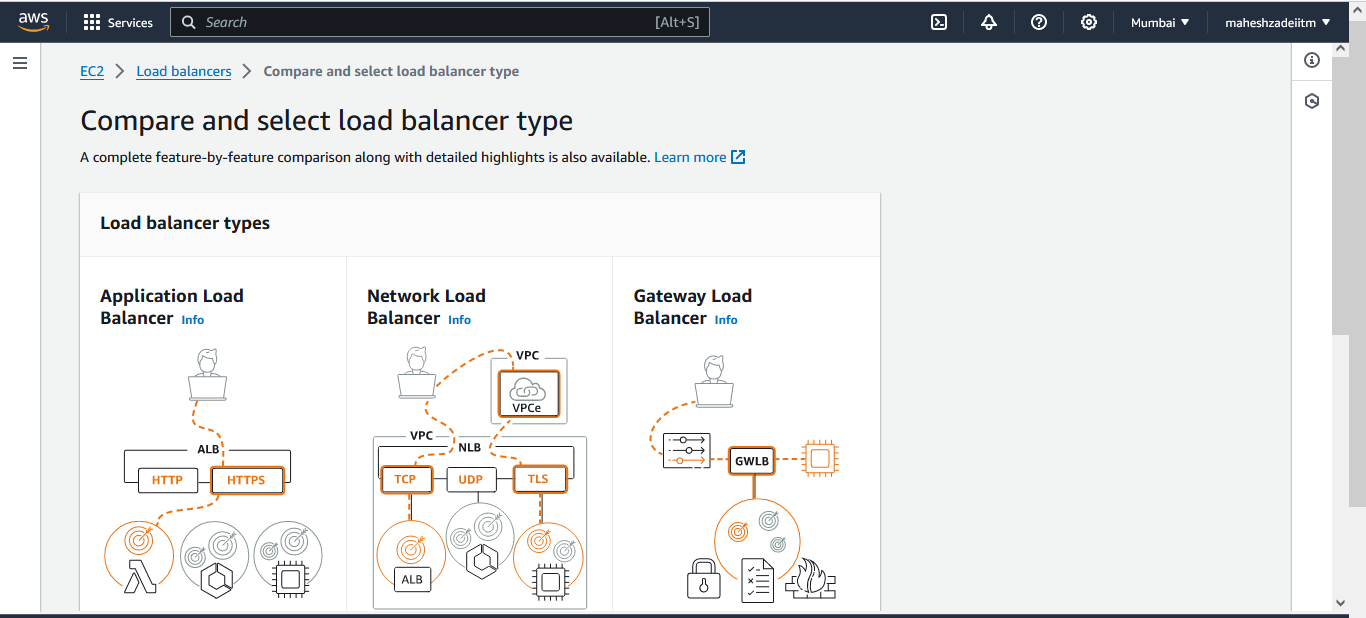
A screenshot of a computer

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A screenshot of a computer

Description automatically generated

7 - Create a ALB



A screenshot of a computer

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Click on create

Load balancer name >>> maheshapplication

A screenshot of a computer

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Scheme >>> Internet-facing

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Choose your VPC

A screenshot of a computer

Description automatically generated

Mappings >>> Choose your AZ >>> Cross verify yoour EC2 where you have launched

Choose min 2 AZ

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Description automatically generated

Choose SG which you have created above

A screenshot of a computer

Description automatically generated

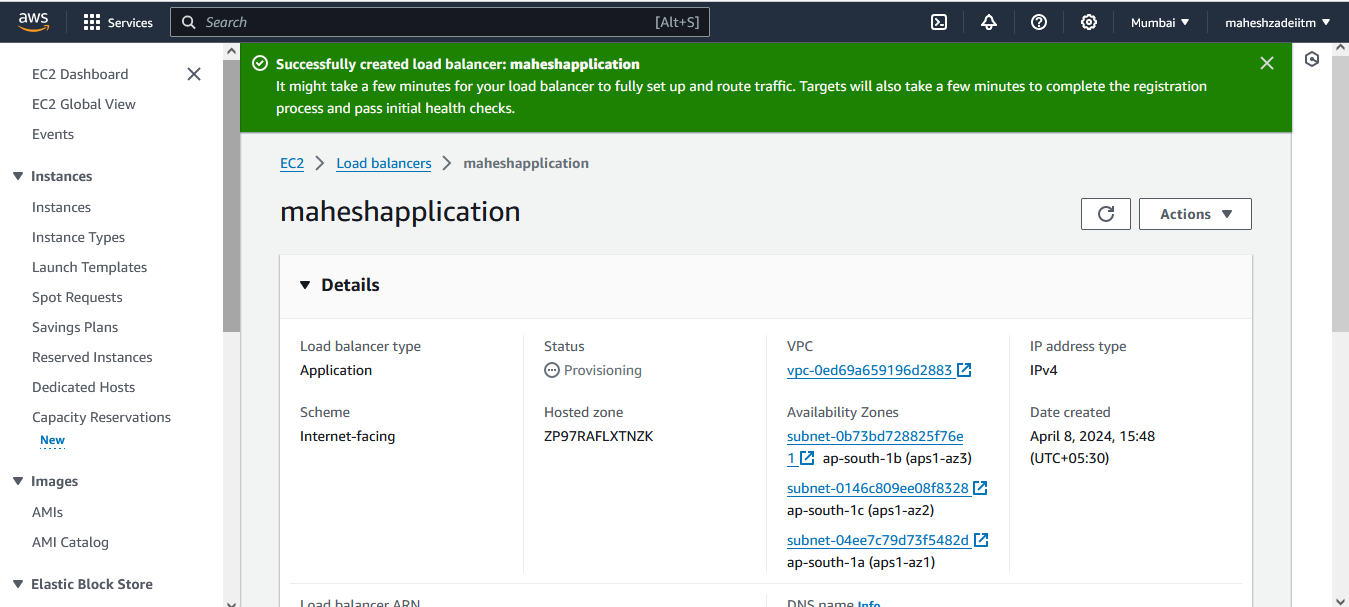
Listeners and routing

Default action >>> drop down >>> Choose International

A screenshot of a computer

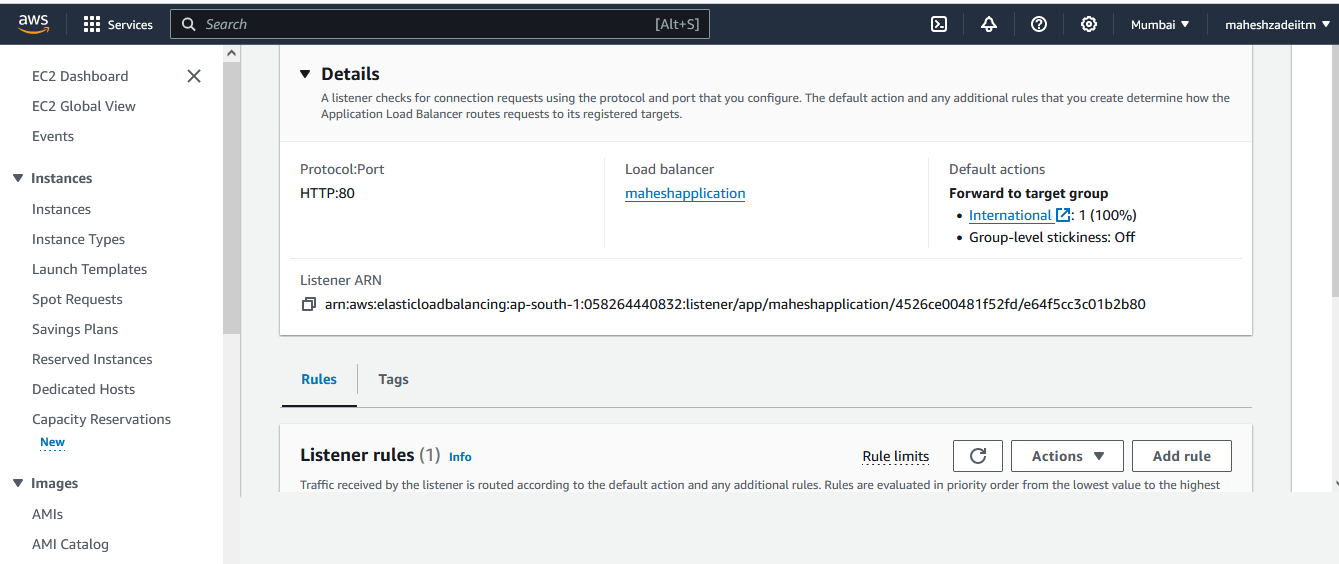
Description automatically generated

Leave all the options and Create a Load balancer



7A - you have to associate domestic TG as well

Go to the LB >>>> At the bottom >>> Listener and rule



Click on that protocol >>> Manage Rule >>> Add Rule

A screenshot of a computer

Description automatically generated

Name >>> domestic

A screenshot of a computer

Description automatically generated

Next

Add Condition

A screenshot of a computer

Description automatically generated

Rule condition types >>>>> Path >>>> /domestic\*

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Confirm

A screenshot of a computer

Description automatically generated

Next

A screenshot of a computer

Description automatically generated

Action types

Forward to target groups

Target group >>> Choose domestic

A screenshot of a computer

Description automatically generated

Next

A screenshot of a computer

Description automatically generated

Priority >>> 1

A screenshot of a computer

Description automatically generated

Next

A screenshot of a computer

Description automatically generated

Create

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Copy DNS Name from Maheshloadbalancer

A screenshot of a computer

Description automatically generated

Paste in browser

maheshapplication-387835366.ap-south-1.elb.amazonaws.com

A screenshot of a computer

Description automatically generated

maheshapplication-387835366.ap-south-1.elb.amazonaws.com/international

A computer screen with a white background

Description automatically generated

http://maheshapplication-387835366.ap-south-1.elb.amazonaws.com/domestic/

A computer screen with a white background

Description automatically generated with medium confidence

Elastic Load Balancer is working now .

Thanks

Pls check and update Security Group are configured properly, Application Load Balancer configured or nor , Customer VPC is configured properly or not ,

User data entry correct or not and also check the DNS URL is correct OR Not.