Name: Tejas Rahul Rokade

Reg. No.: 20BDS0033

Create a Load balancer using AWS and Test its running with sample set of web servers

Create two instances and while creating the instance in advacnce stteing under user data give below commands:

Instance 1

#!/bin/bash

Yum install httpd –y

Systemctl enable httpd

Mkdir /var/www/html/orders

Echo ”<h1>This is Orders App (20BDS0033)</h1>” >

/var/www/html/orders/index.html

Systemctl start httpd

Instance 2

#!/bin/bash

Yum install httpd –y

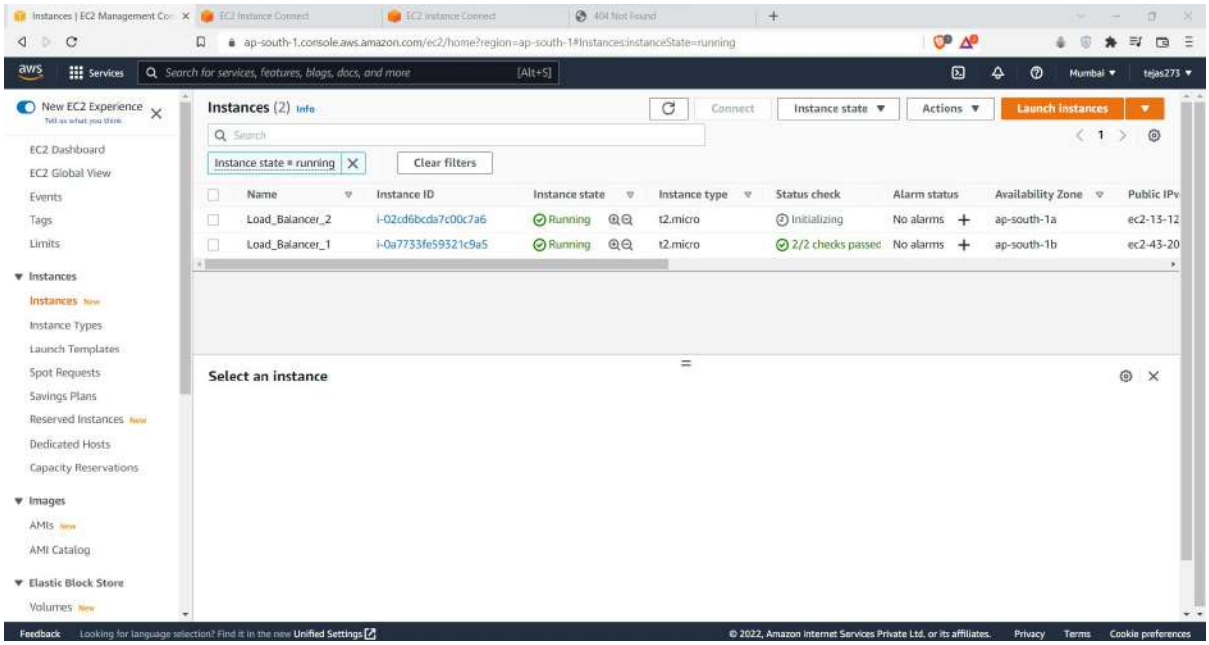
Systemctl enable httpd

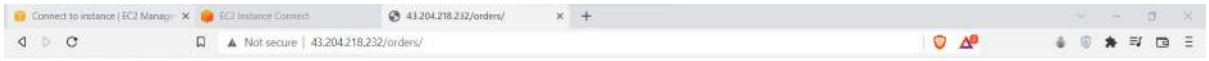
Mkdir /var/www/html/payments

Echo ”<h1>This is Payments App (20BDS0033)</h1>” >

/var/www/html/orders/index.html

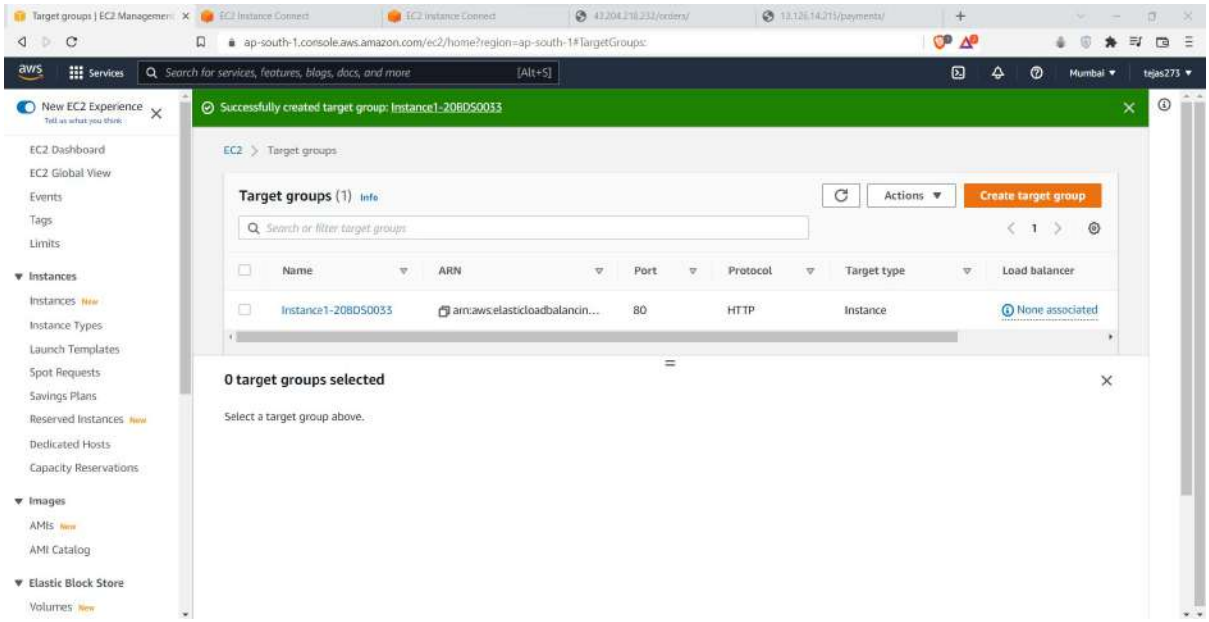
Systemctl start httpd

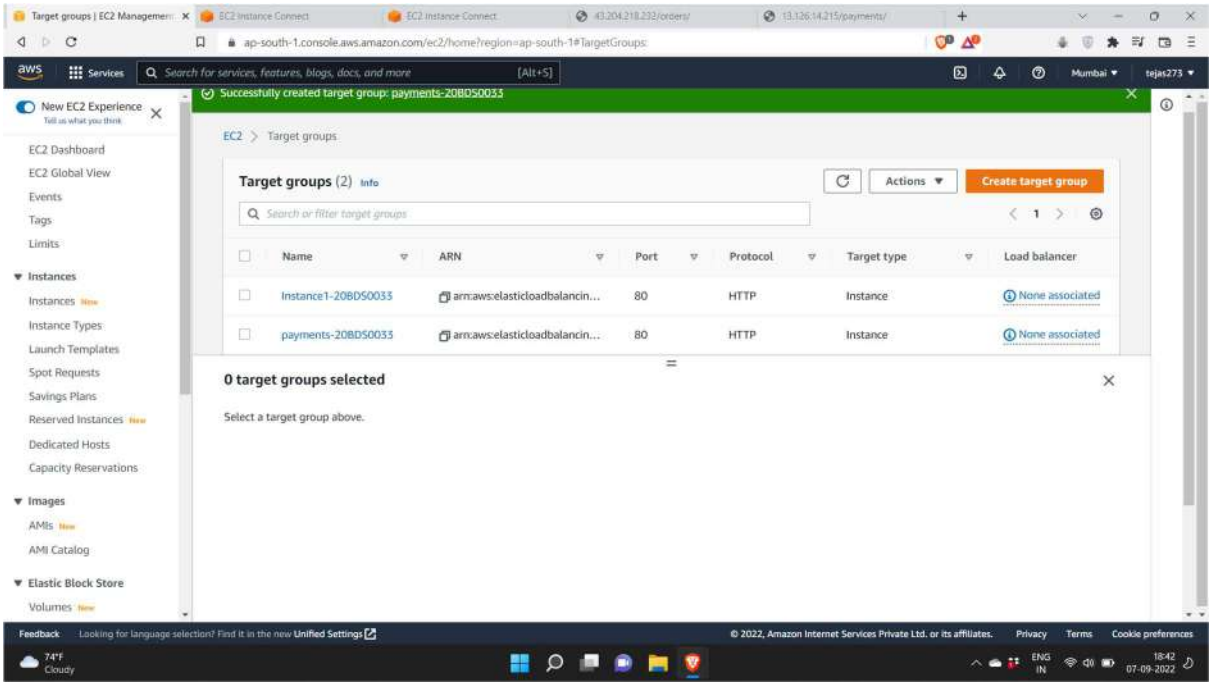




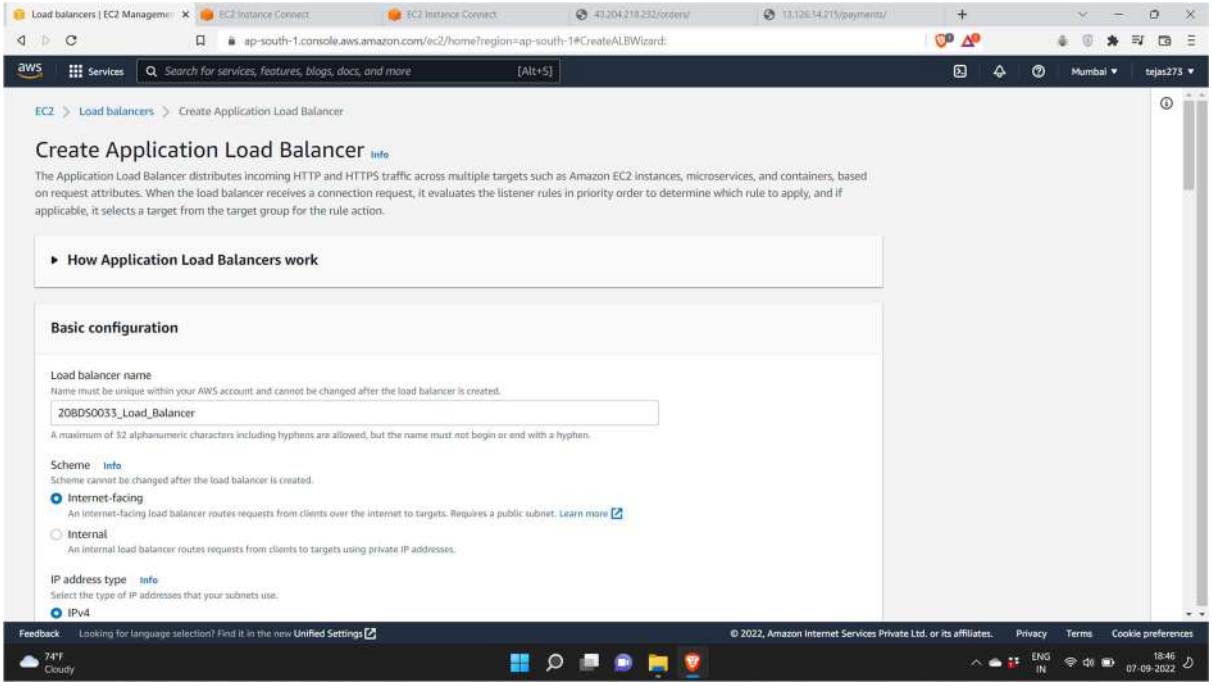
This is Orders App (20BDS0033)

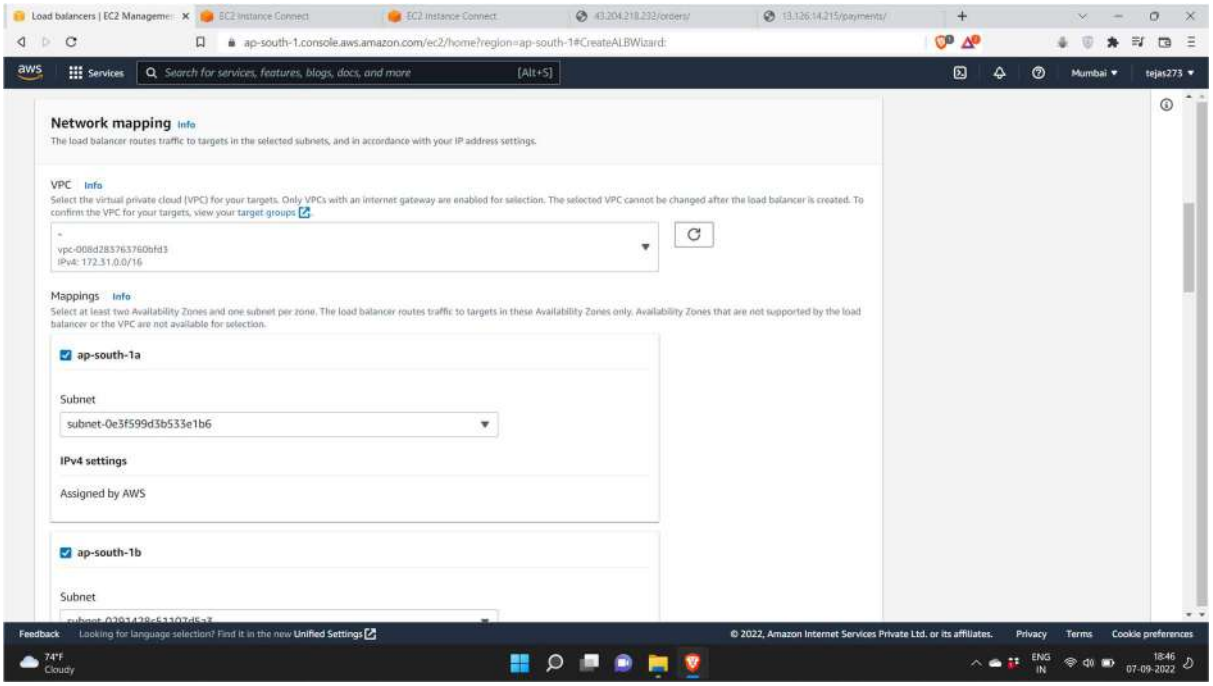
This is Payments App(20BDS0033)





Creating Load Balancer




Load balancers | EC2 Management
EC2 Instance Connect
EC2 Instance Connect
43.204.218.232/orders/
13.126.14.215/payments/
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateALBWizard:
aws
Services
Search for services, features, blogs, docs, and more
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Mumbai
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Network mapping Info
The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.
VPC Info
Select the virtual private cloud (VPC) for your targets. Only VPCs with an internet gateway are enabled for selection. The selected VPC cannot be changed after the load balancer is created. To confirm the VPC for your targets, view your target groups
vpc-008d283763760bfd3
IPv4: 172.31.0.0/16
Mappings Info
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.
ap-south-1a
Subnet
subnet-0e3f599d3b533e1b6
IPv4 settings
Assigned by AWS
ap-south-1b
Subnet
Feedback
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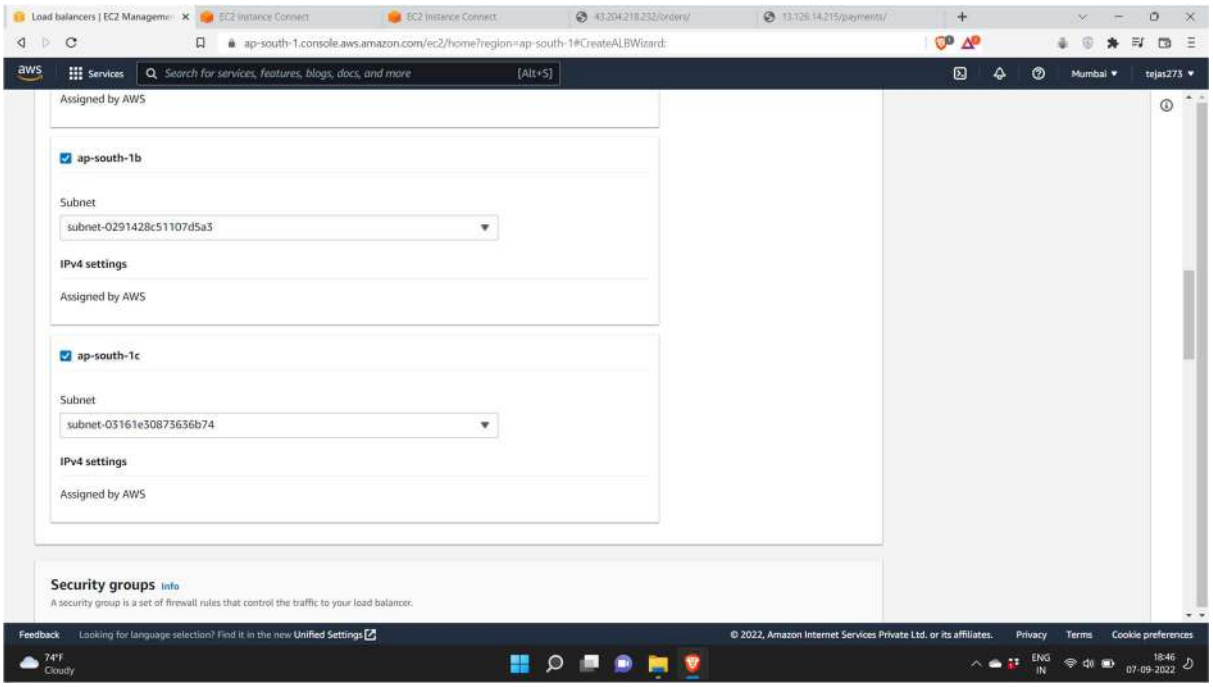
Load balancers | EC2 Management
EC2 Instance Connect
EC2 Instance Connect
43.204.218.232/orders/
13.126.14.215/payments/
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateALBWizard:
aws
Services
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Assigned by AWS
ap-south-1b
Subnet
subnet-0291428c51107d5a3
IPv4 settings
Assigned by AWS
ap-south-1c
Subnet
subnet-03161e30873636b74
IPv4 settings
Assigned by AWS
Security groups Info
A security group is a set of firewall rules that control the traffic to your load balancer.
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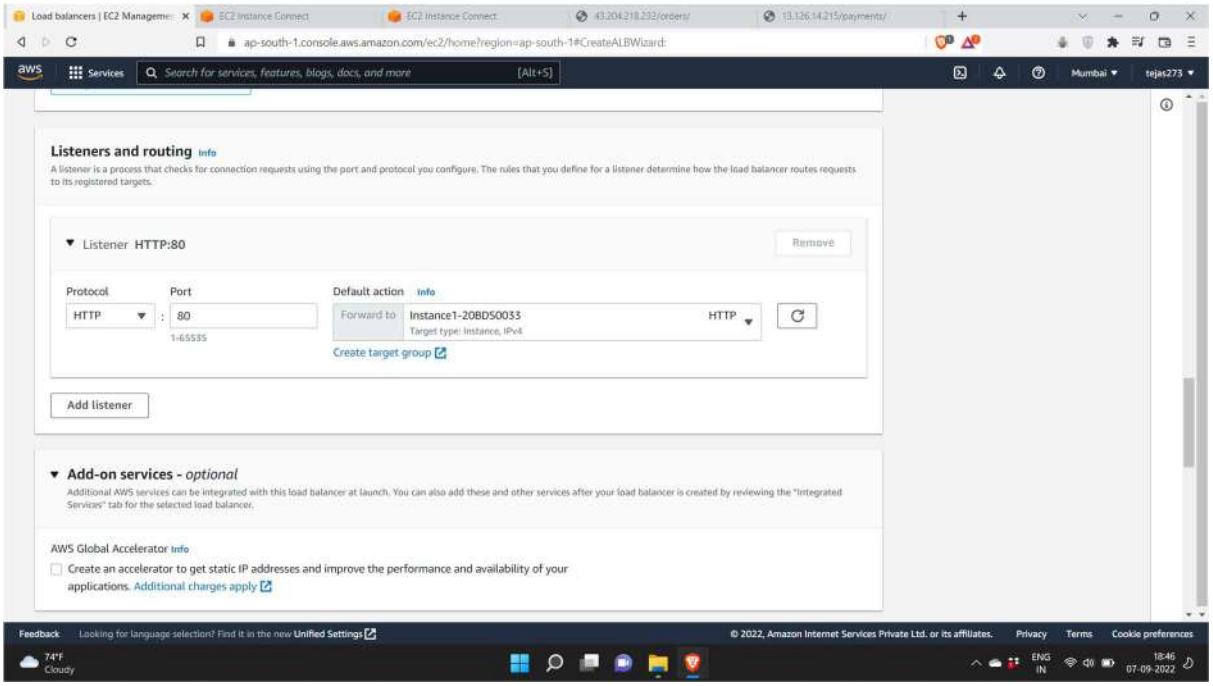
Load balancers | EC2 Management
EC2 Instance Connect
EC2 Instance Connect
43.204.218.232/orders/
13.126.14.215/payments/
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateALBWizard:
aws
Services
Search for services, features, blogs, docs, and more
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Listeners and routing Info
A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.
Listener HTTP:80
Remove
Protocol
Port
Default action Info
HTTP
80
1-65535
Forward to
Instance1-20BDS0033
Target type: Instance, IPv4
HTTP
Create target group
Add listener
Add-on services - optional
Additional AWS services can be integrated with this load balancer at launch. You can also add these and other services after your load balancer is created by reviewing the "Integrated Services" tab for the selected load balancer.
AWS Global Accelerator Info
Create an accelerator to get static IP addresses and improve the performance and availability of your applications. Additional charges apply
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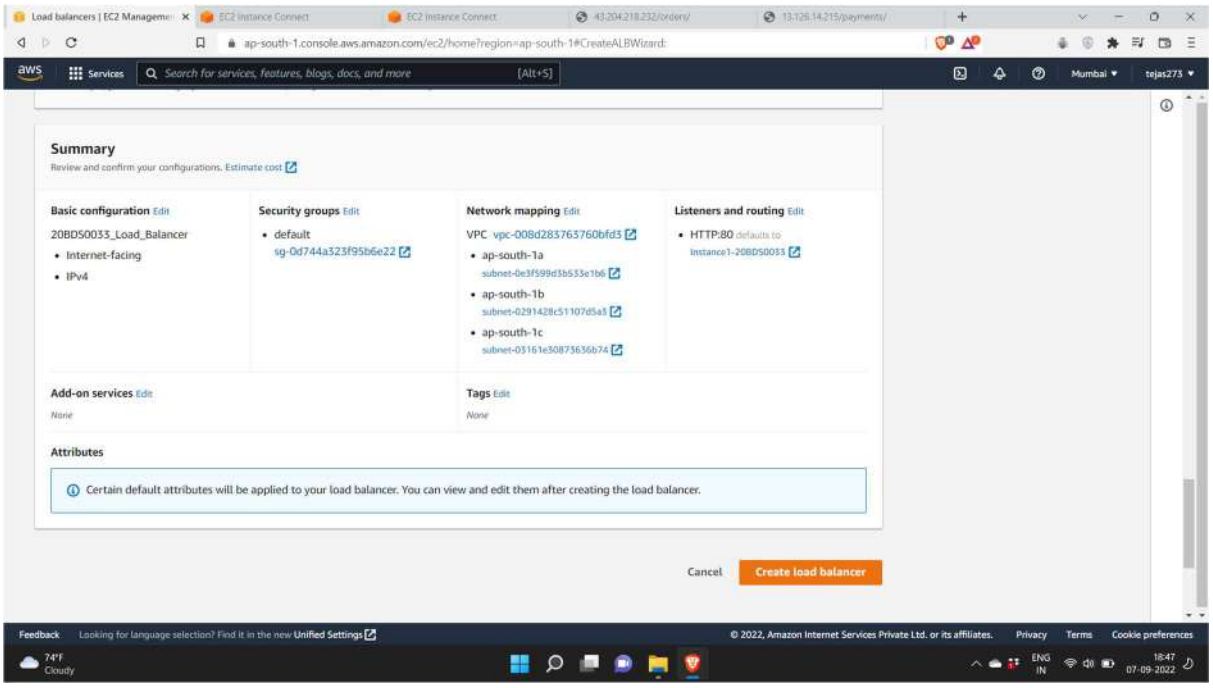
Load balancers | EC2 Management
EC2 Instance Connect
EC2 Instance Connect
43.204.218.232/orders/
13.126.14.215/payments/
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateALBWizard:
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
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Summary
Review and confirm your configurations. Estimate cost
Basic configuration Edit
20BDS0033_Load_Balancer
Internet-facing
IPv4
Security groups Edit
default
sg-0d744a323f95b6e22
Network mapping Edit
VPC vpc-008d283763760bfd3
ap-south-1a
subnet-0e3f599d3b533e1b6
ap-south-1b
subnet-0291428c51107d5a3
ap-south-1c
subnet-03161e30875636b74
Listeners and routing Edit
HTTP:80 defaults to
Instance1-20BDS0033
Add-on services Edit
None
Tags Edit
None
Attributes
Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer.
Cancel
Create load balancer
Feedback
Looking for language selection? Find it in the new Unified Settings
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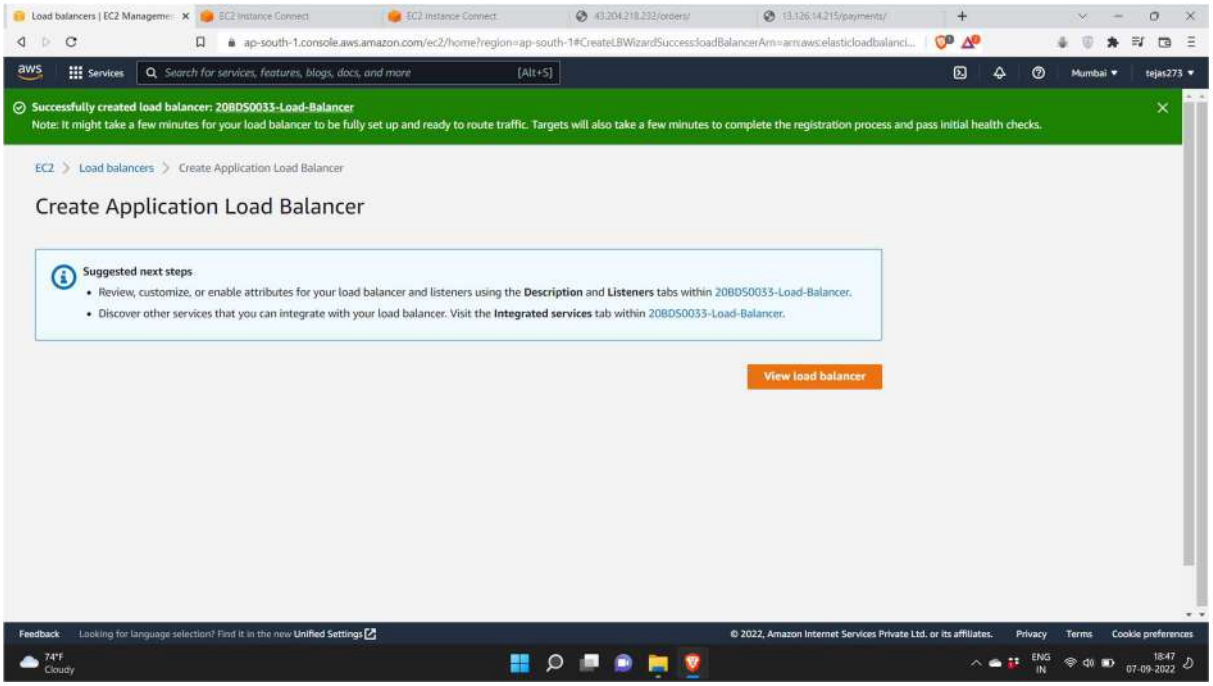
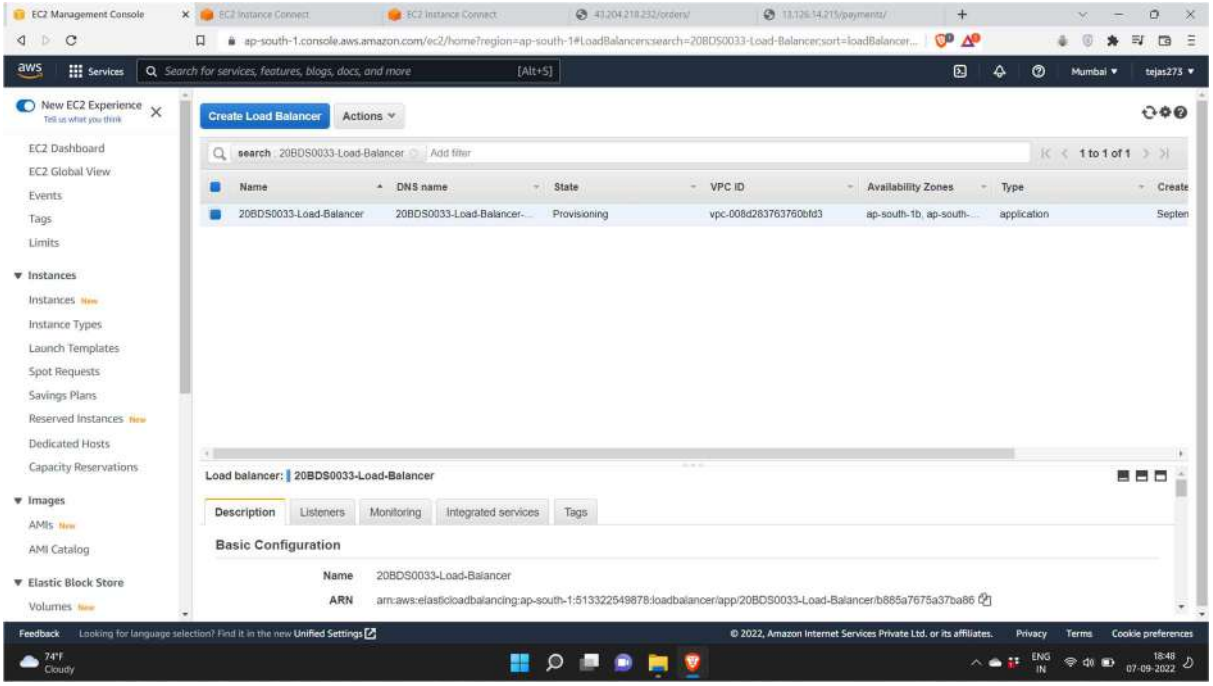
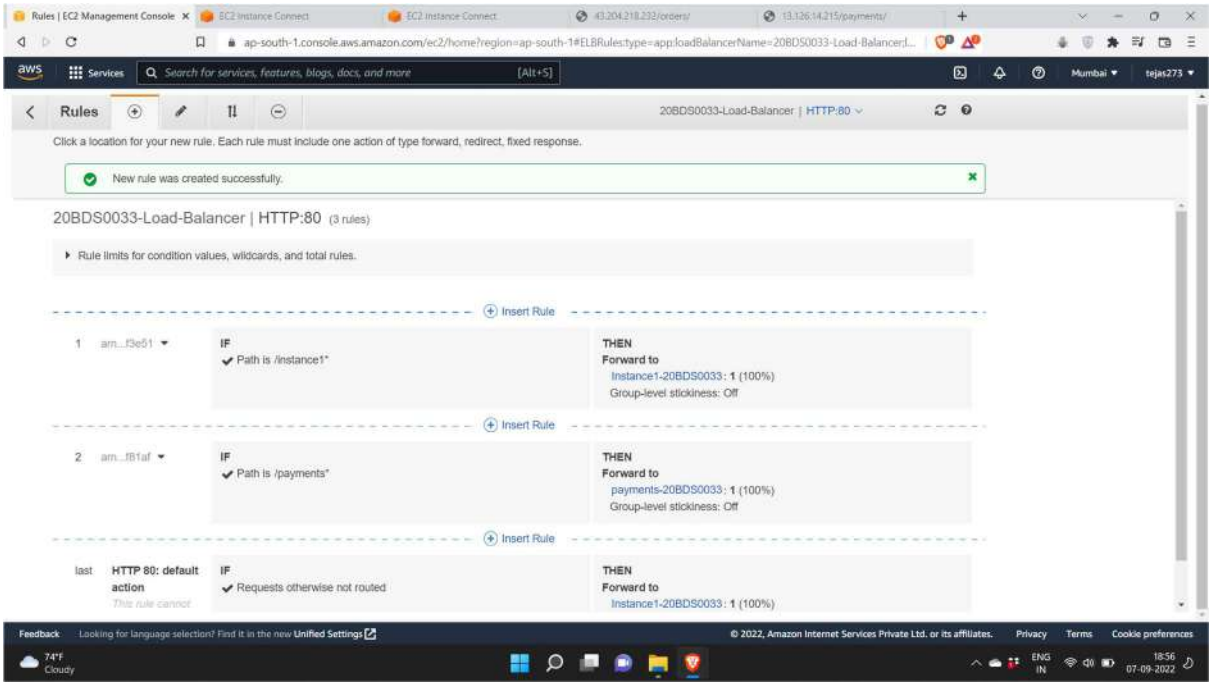
ENG
IN
18:47
07-09-2022



Now go to description and select DNS Name





In new browser give

http://20bds0033-load-balancer-1409240253.ap-south-1.elb.amazonaws.com/instance1/

In new browser give

http://20bds0033-load-balancer-1409240253.ap-south-1.elb.amazonaws.com/payments/

This is Payments App(20BDS0033)