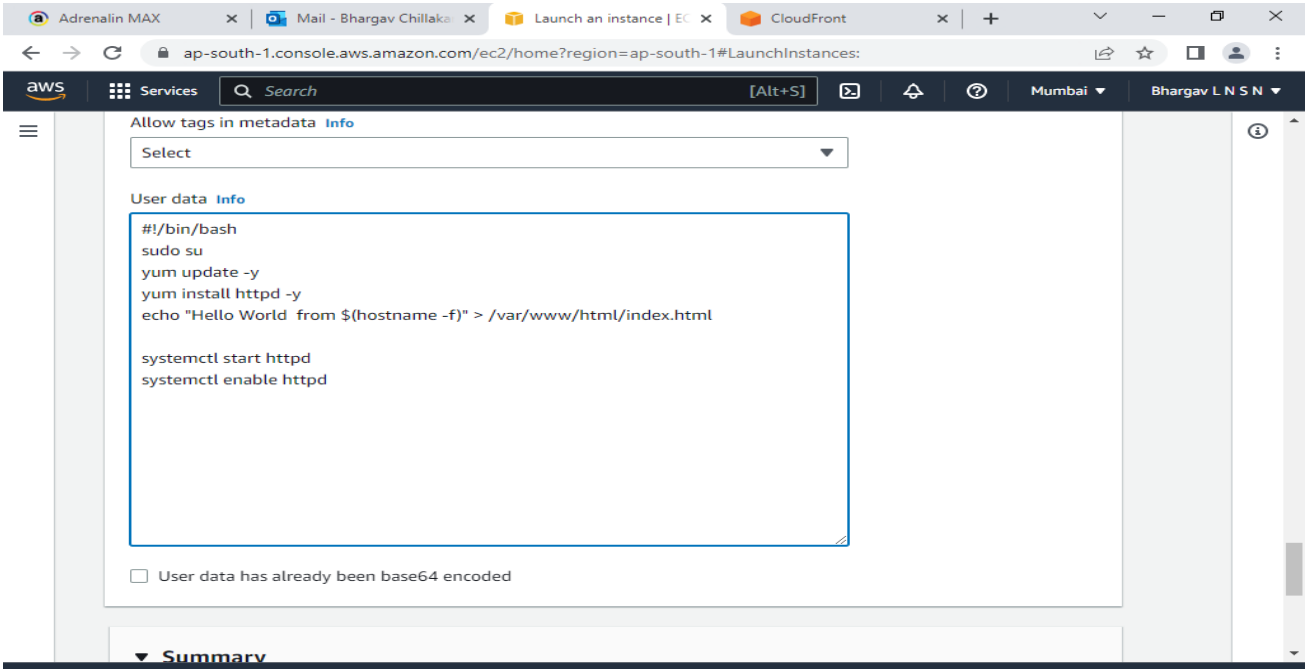
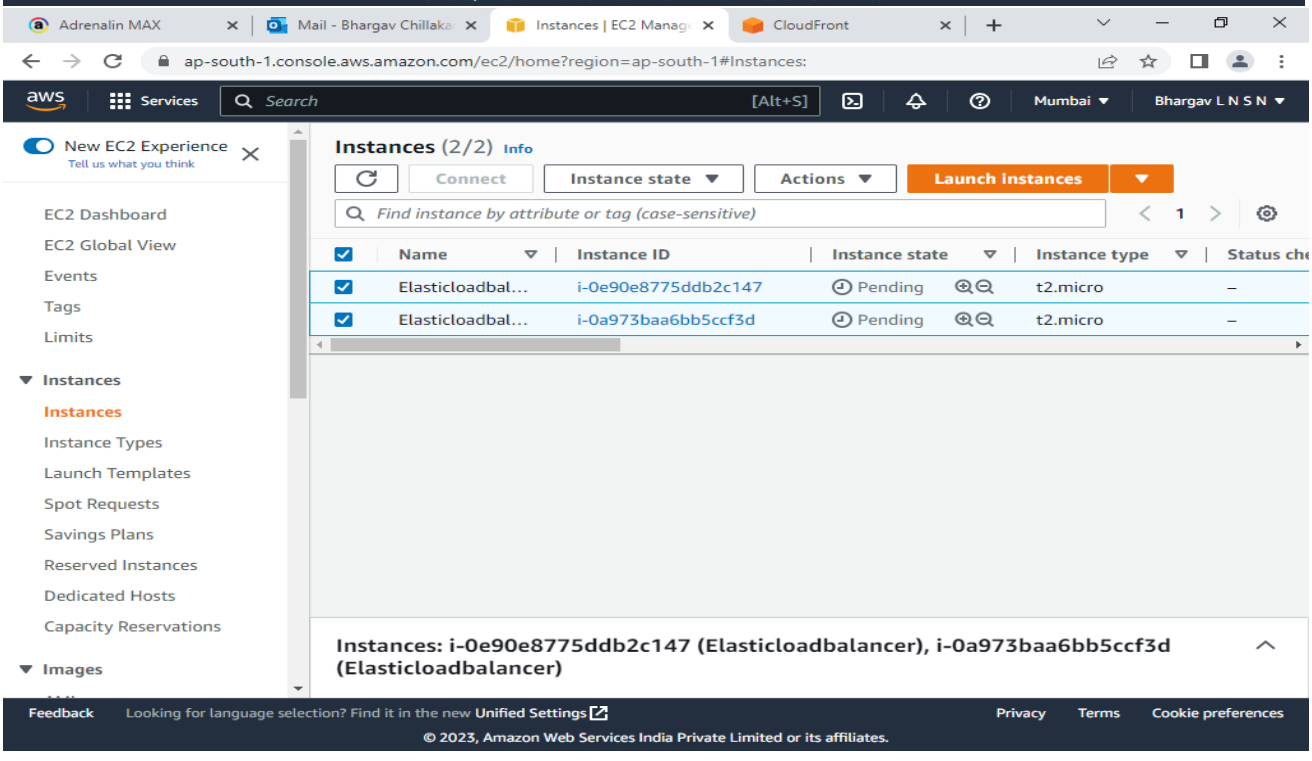
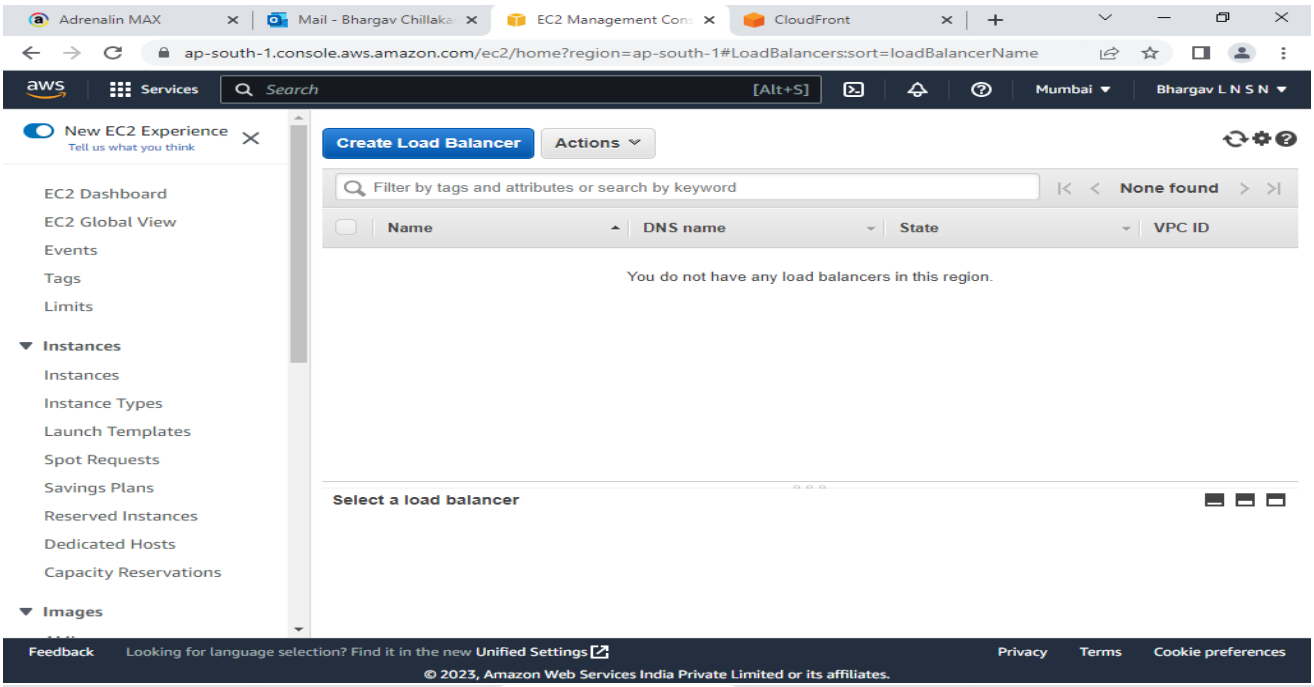
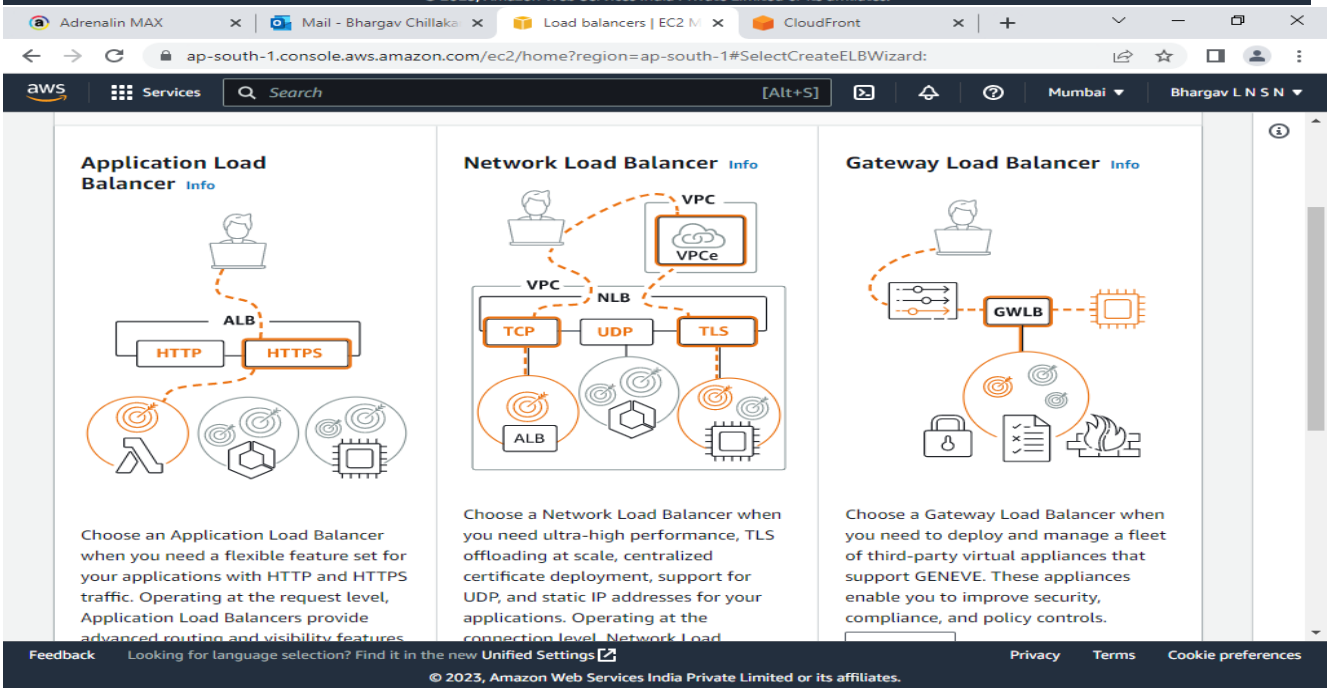
Application Load Balancer: Create an EC2 Instance with User data as below

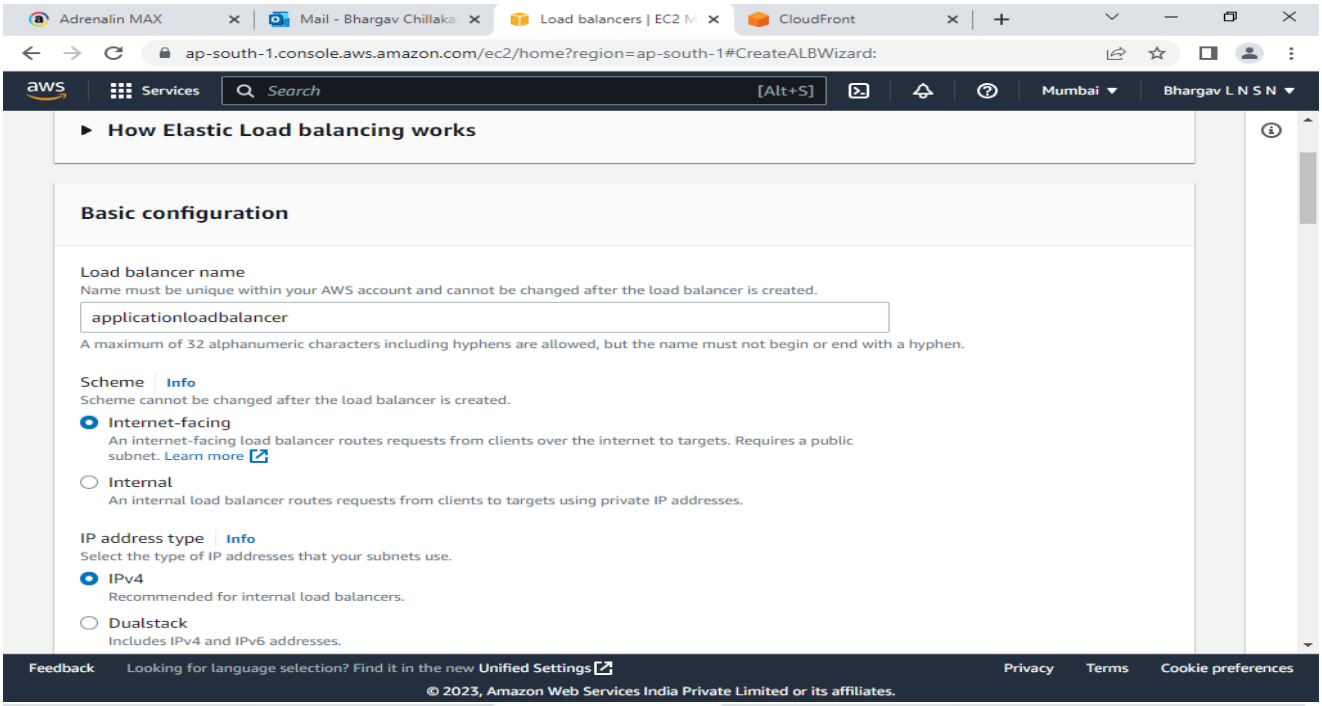




Create Load balancer



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Mail - Bhargav Chillaka
Load balancers | EC2 M
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateALBWizard:
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Bhargav L N S N
How Elastic Load balancing works
Basic configuration
Load balancer name
Name must be unique within your AWS account and cannot be changed after the load balancer is created.
applicationloadbalancer
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Scheme Info
Scheme cannot be changed after the load balancer is created.
Internet-facing
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more
Internal
An internal load balancer routes requests from clients to targets using private IP addresses.
IP address type Info
Select the type of IP addresses that your subnets use.
IPv4
Recommended for internal load balancers.
Dualstack
Includes IPv4 and IPv6 addresses.
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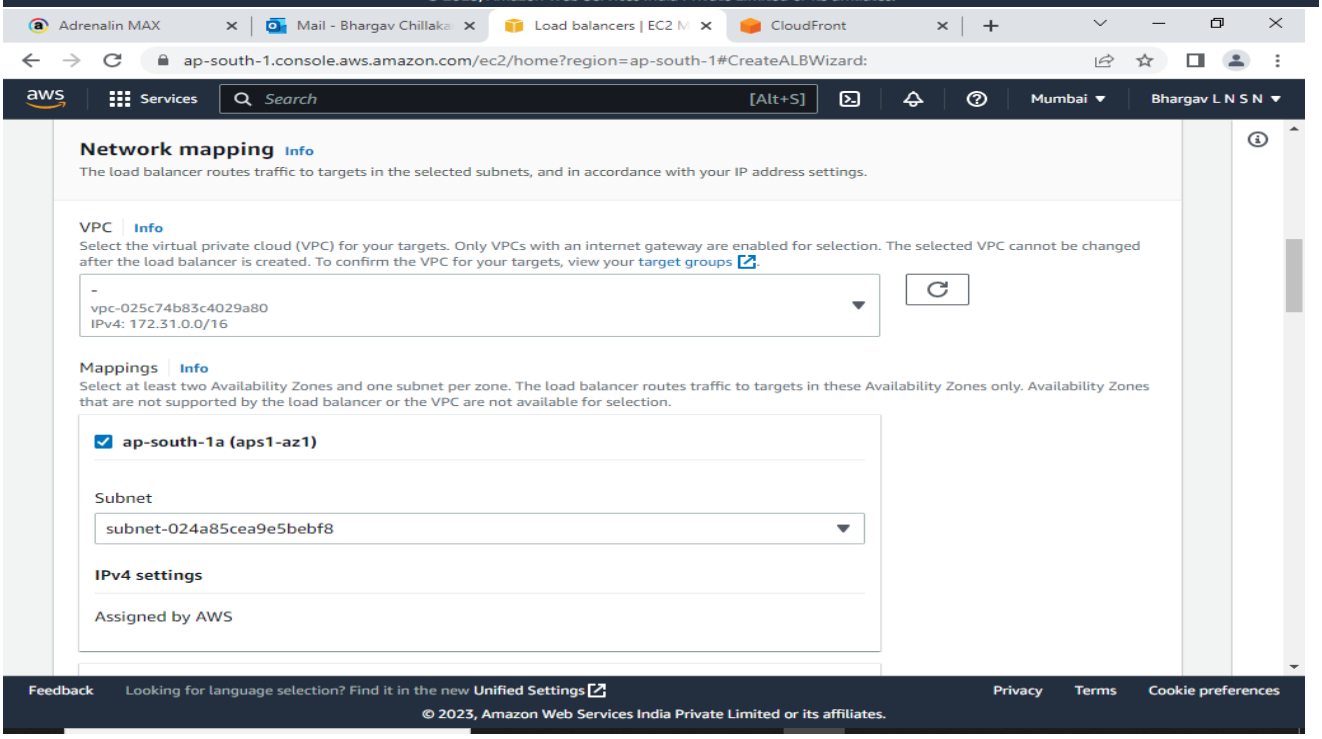
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Network mapping Info
The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.
VPC Info
Select the virtual private cloud (VPC) for your targets. Only VPCs with an internet gateway are enabled 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-025c74b83c4029a80
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 (aps1-az1)
Subnet
subnet-024a85cea9e5bebf8
IPv4 settings
Assigned by AWS
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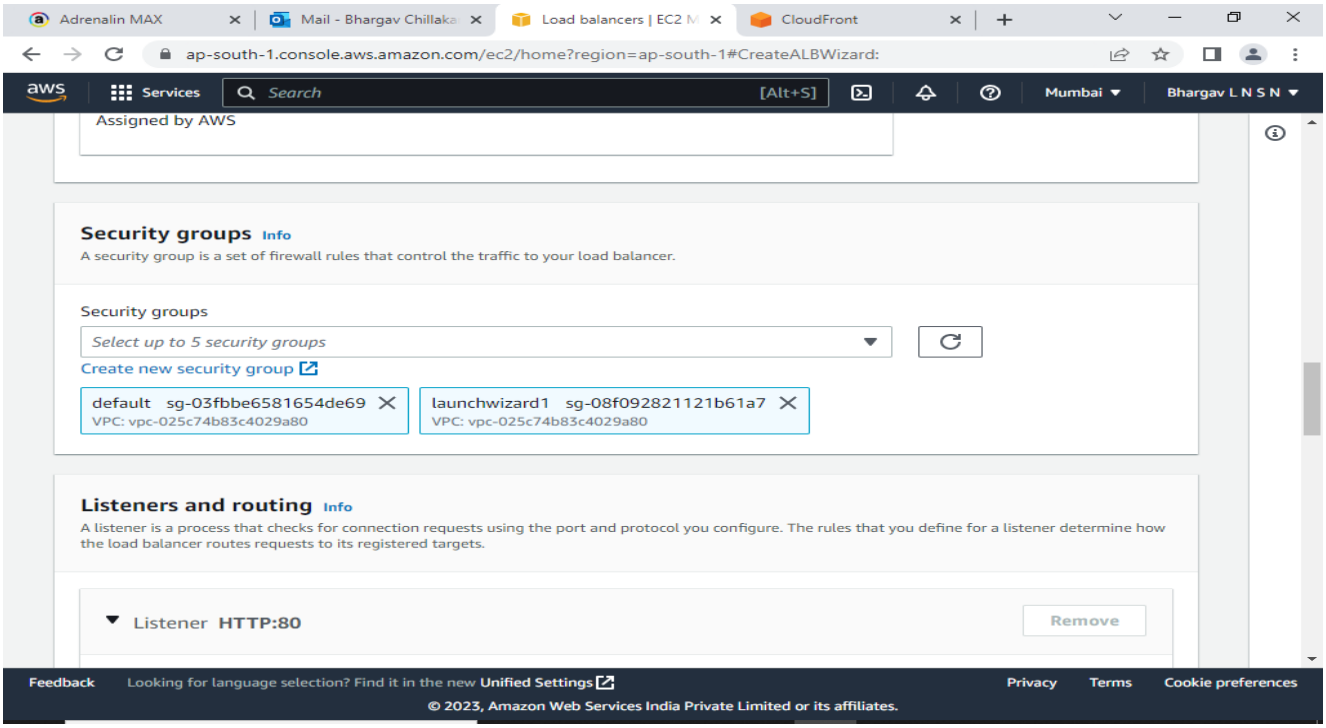
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Load balancers | EC2 M
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateALBWizard:
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Security groups Info
A security group is a set of firewall rules that control the traffic to your load balancer.
Security groups
Select up to 5 security groups
Create new security group
default sg-03fbbe6581654de69
VPC: vpc-025c74b83c4029a80
launchwizard1 sg-08f092821121b61a7
VPC: vpc-025c74b83c4029a80
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
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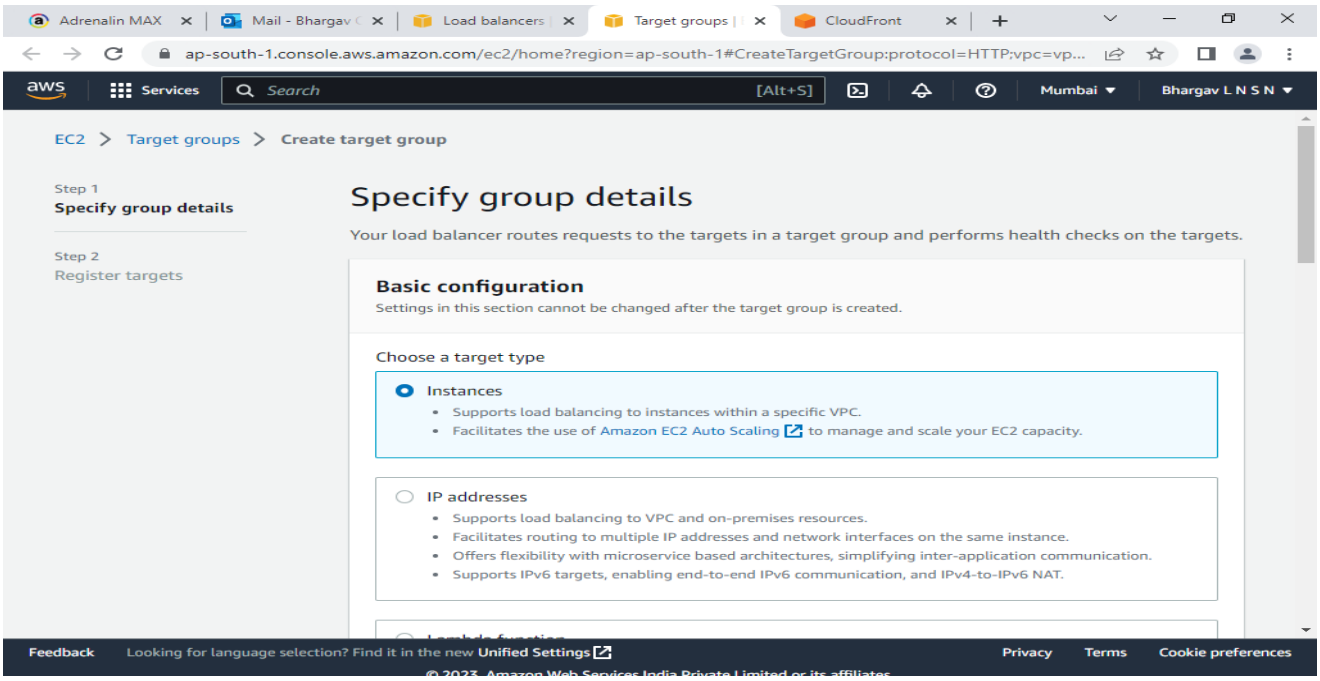
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Load balancers
Target groups
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateTargetGroup:protocol=HTTP;vpc=vp...
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EC2 > Target groups > Create target group
Step 1
Specify group details
Step 2
Register targets
Specify group details
Your load balancer routes requests to the targets in a target group and performs health checks on the targets.
Basic configuration
Settings in this section cannot be changed after the target group is created.
Choose a target type
Instances
Supports load balancing to instances within a specific VPC.
Facilitates the use of Amazon EC2 Auto Scaling to manage and scale your EC2 capacity.
IP addresses
Supports load balancing to VPC and on-premises resources.
Facilitates routing to multiple IP addresses and network interfaces on the same instance.
Offers flexibility with microservice based architectures, simplifying inter-application communication.
Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.
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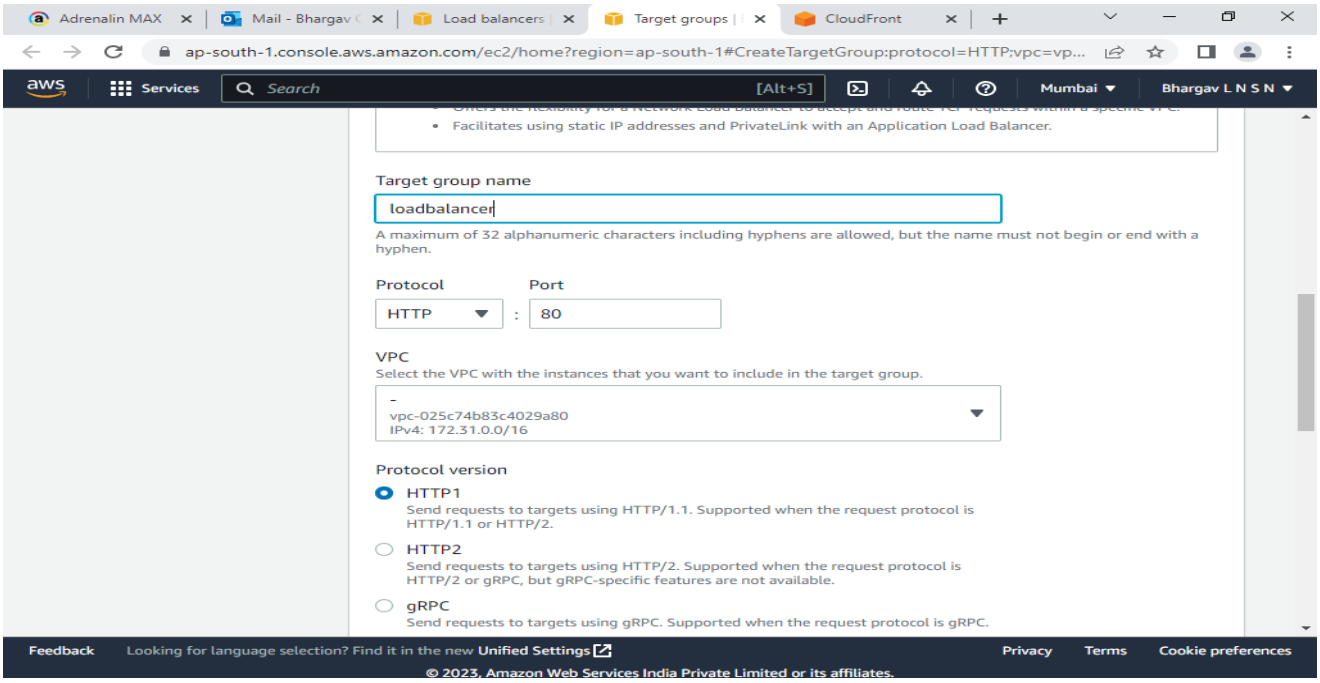
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Load balancers
Target groups
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateTargetGroup:protocol=HTTP;vpc=vp...
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Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.
Target group name
loadbalancer
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Protocol
Port
HTTP
80
VPC
Select the VPC with the instances that you want to include in the target group.
-
vpc-025c74b83c4029a80
IPv4: 172.31.0.0/16
Protocol version
HTTP1
Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.
HTTP2
Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.
gRPC
Send requests to targets using gRPC. Supported when the request protocol is gRPC.
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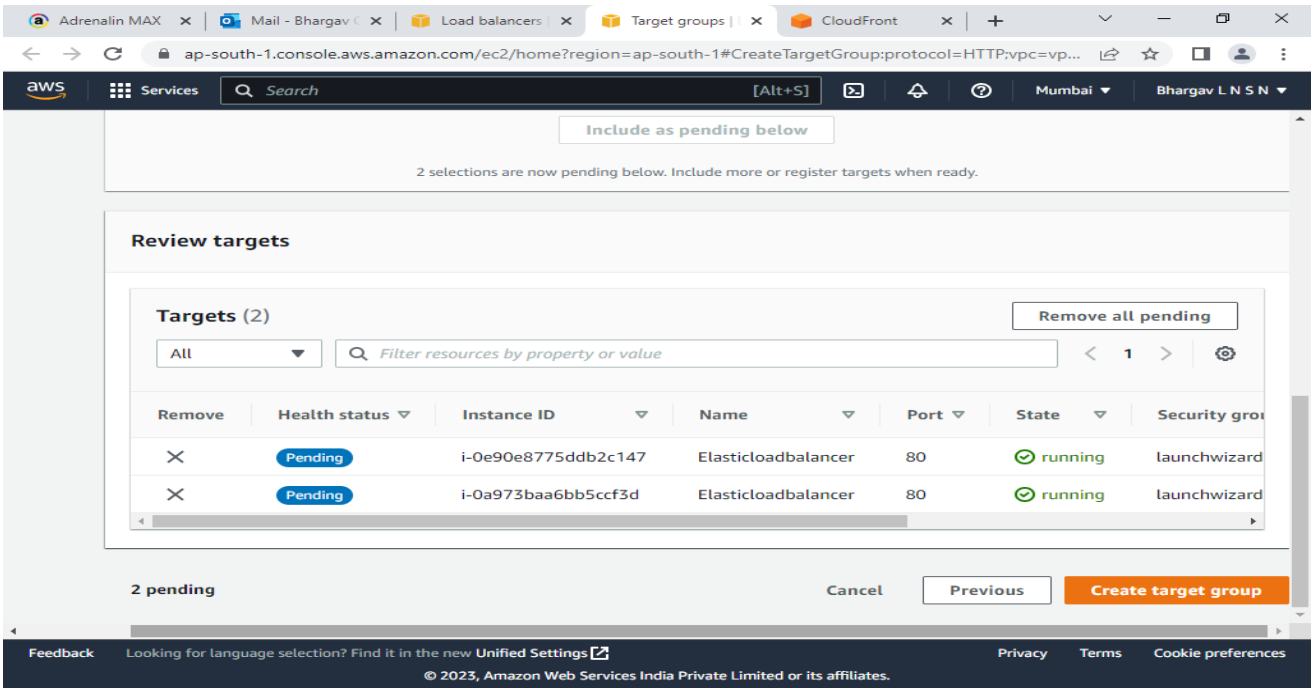
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Load balancers
Target groups
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateTargetGroup:protocol=HTTP;vpc=vp...
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Include as pending below
2 selections are now pending below. Include more or register targets when ready.
Review targets
Targets (2)
Remove all pending
All
Filter resources by property or value
1
Remove
Health status
Instance ID
Name
Port
State
Security gro
Pending
i-0e90e8775ddb2c147
Elasticloadbalancer
80
running
launchwizard
Pending
i-0a973baa6bb5ccf3d
Elasticloadbalancer
80
running
launchwizard
2 pending
Cancel
Previous
Create target group
Feedback
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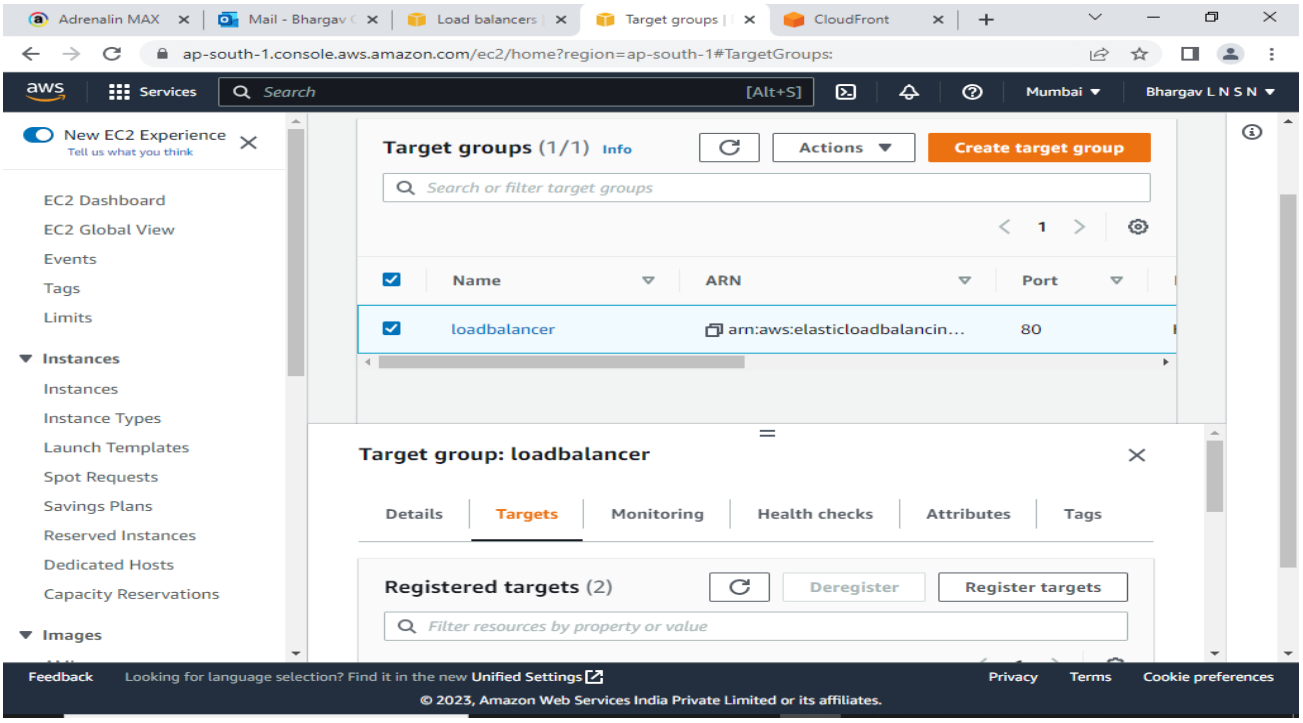
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Load balancers
Target groups
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#TargetGroups:
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New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
Target groups (1/1) Info
Actions
Create target group
Search or filter target groups
1
Name
ARN
Port
loadbalancer
arn:aws:elasticloadbalancin...
80
Target group: loadbalancer
Details
Targets
Monitoring
Health checks
Attributes
Tags
Registered targets (2)
Deregister
Register targets
Filter resources by property or value
Feedback
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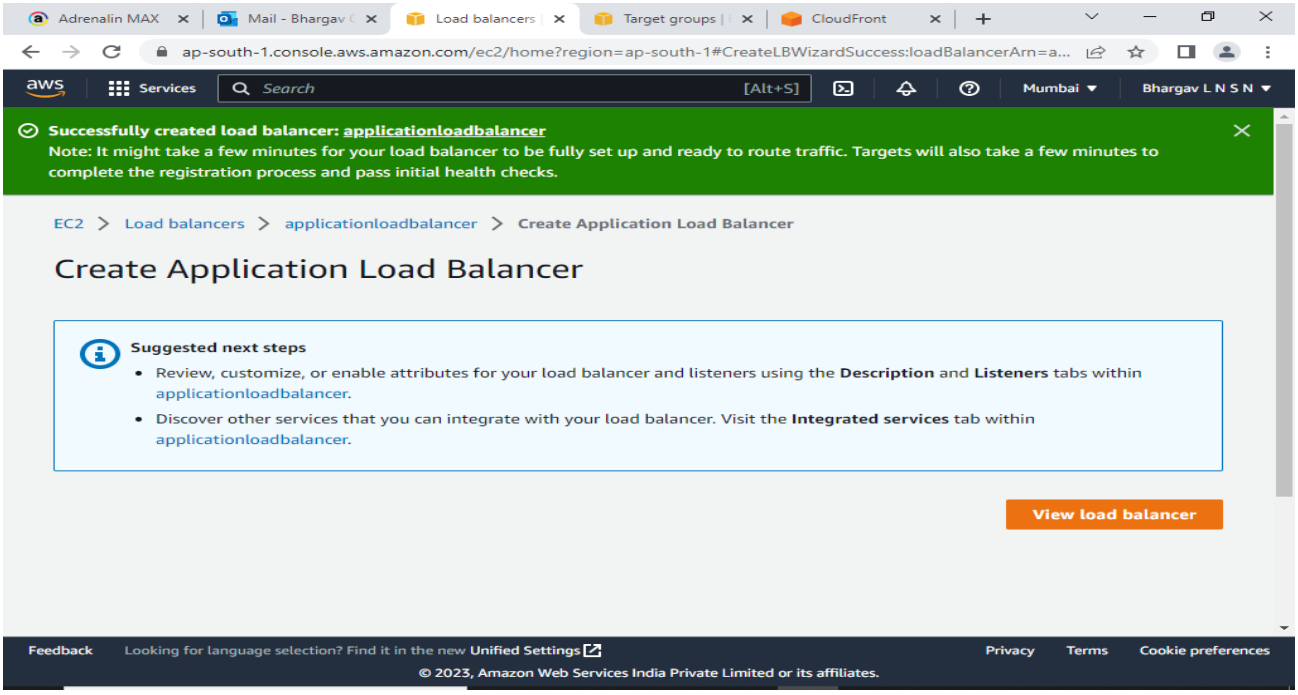
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Load balancers
Target groups
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateLBWizardSuccess:loadBalancerArn=a...
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Successfully created load balancer: applicationloadbalancer
Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.
EC2 > Load balancers > applicationloadbalancer > Create Application Load Balancer
Create Application Load Balancer
Suggested next steps
Review, customize, or enable attributes for your load balancer and listeners using the Description and Listeners tabs within applicationloadbalancer.
Discover other services that you can integrate with your load balancer. Visit the Integrated services tab within applicationloadbalancer.
View load balancer
Feedback
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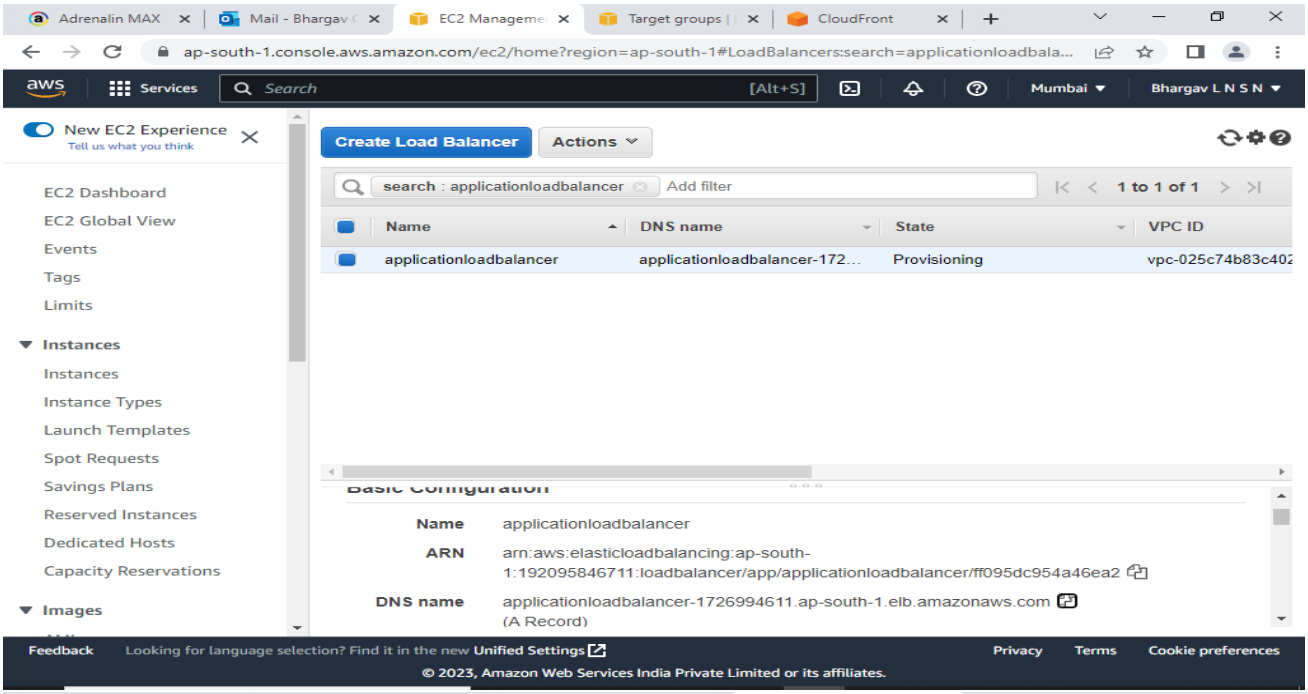
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EC2 Manageme
Target groups
CloudFront
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LoadBalancers:search=applicationloadbala...
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New EC2 Experience
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EC2 Global View
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Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
Create Load Balancer
Actions
search : applicationloadbalancer
Add filter
1 to 1 of 1
Name
DNS name
State
VPC ID
applicationloadbalancer
applicationloadbalancer-172...
Provisioning
vpc-025c74b83c402
Name
applicationloadbalancer
ARN
arn:aws:elasticloadbalancing:ap-south-1:192095846711:loadbalancer/app/applicationloadbalancer/ff095dc954a46ea2
DNS name
applicationloadbalancer-1726994611.ap-south-1.elb.amazonaws.com
(A Record)
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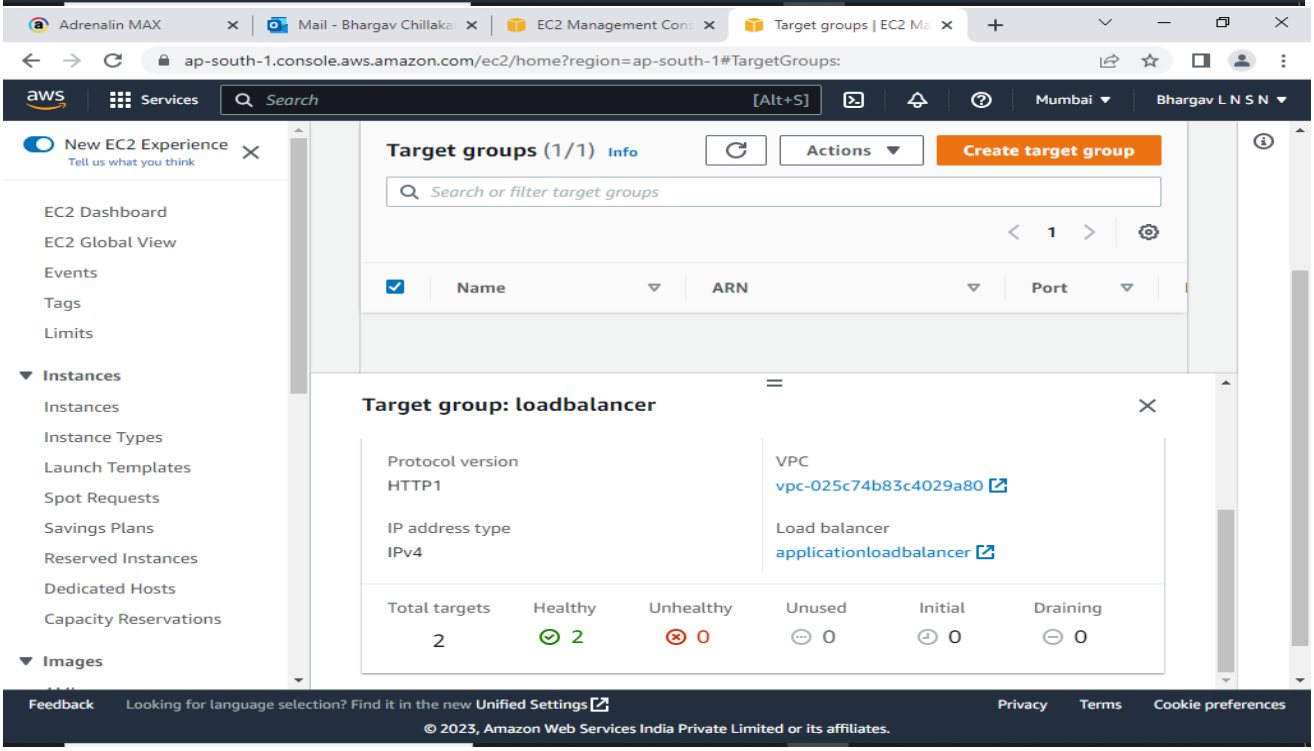
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EC2 Management Cons
Target groups | EC2 Ma
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#TargetGroups:
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New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
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Tags
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Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
Target groups (1/1) Info
Actions
Create target group
Search or filter target groups
1
Name
ARN
Port
Target group: loadbalancer
Protocol version
HTTP1
VPC
vpc-025c74b83c4029a80
IP address type
IPv4
Load balancer
applicationloadbalancer
Total targets
Healthy
Unhealthy
Unused
Initial
Draining
2
2
0
0
0
0
Feedback
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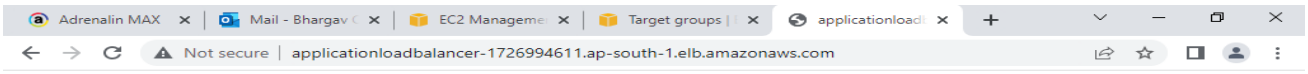
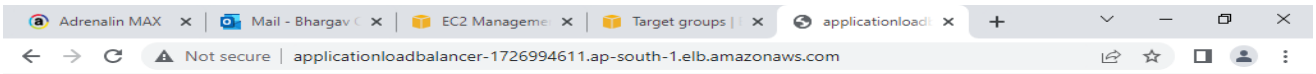


Hello World from ip-172-31-36-56.ap-south-1.compute.internal



Hello World from ip-172-31-37-239.ap-south-1.compute.internal