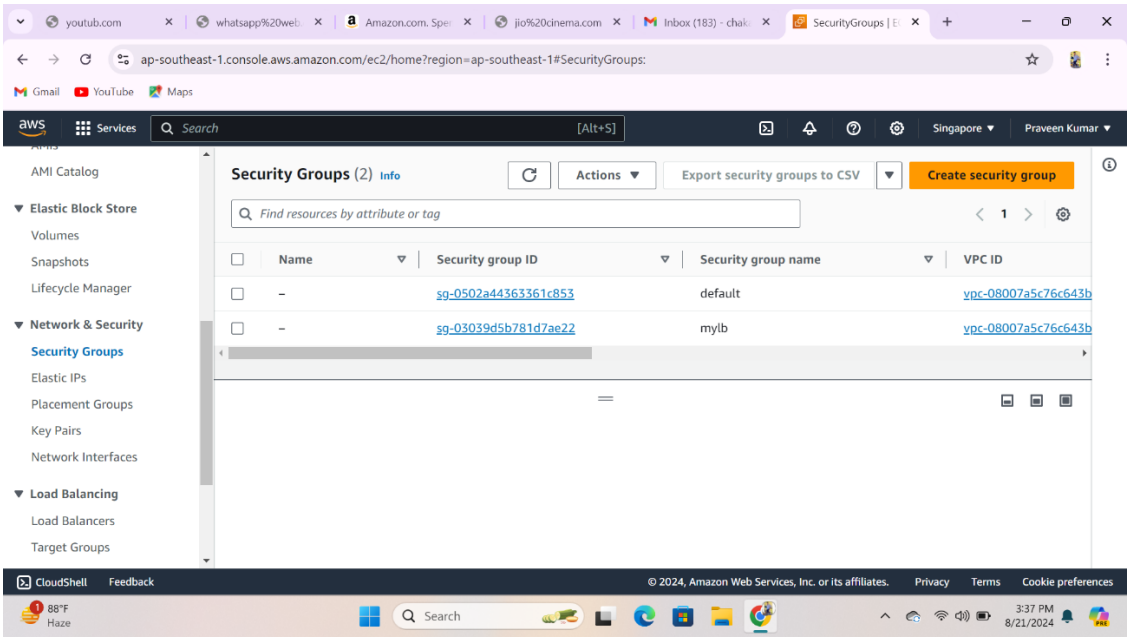
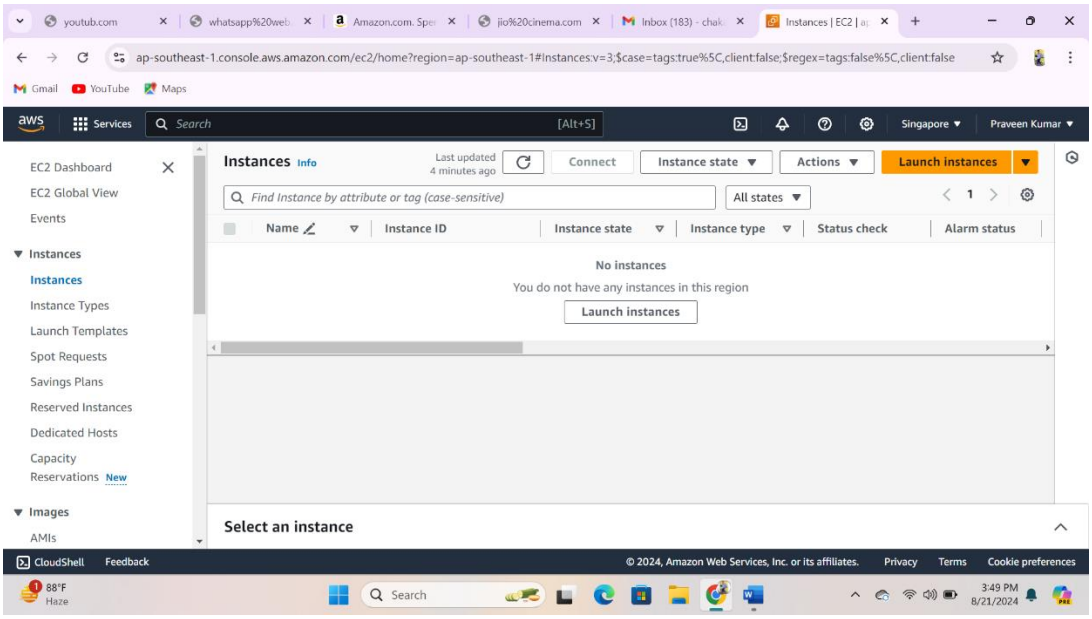
Auto scalling

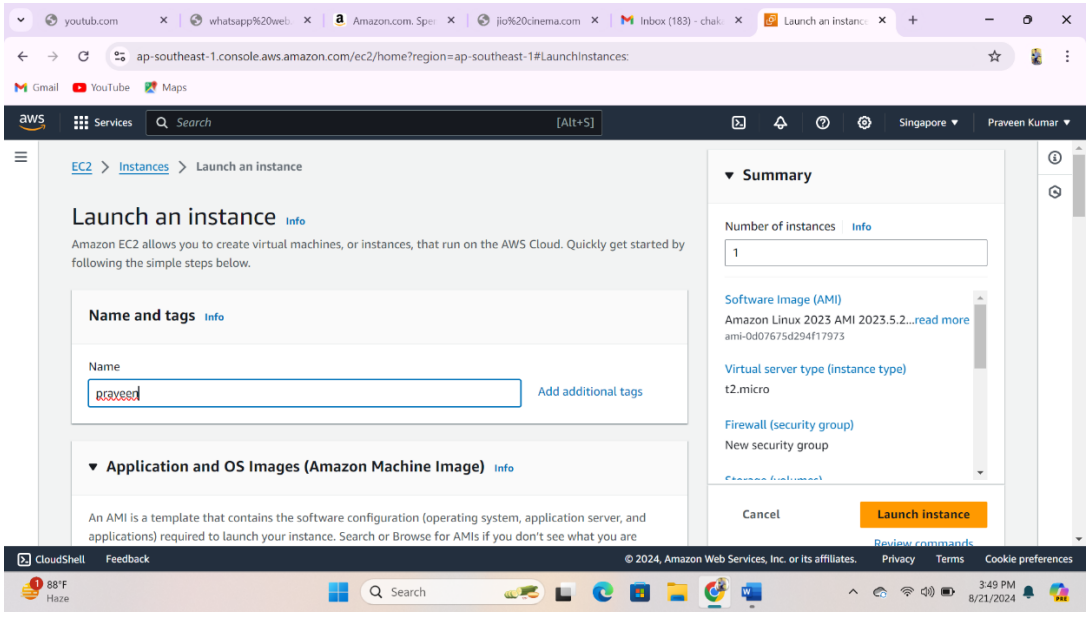
- Create auto scalling first you need load balance for load balancer first you need create security group with add rule http&ssh
- Go to ec2 and click security group click create security group.

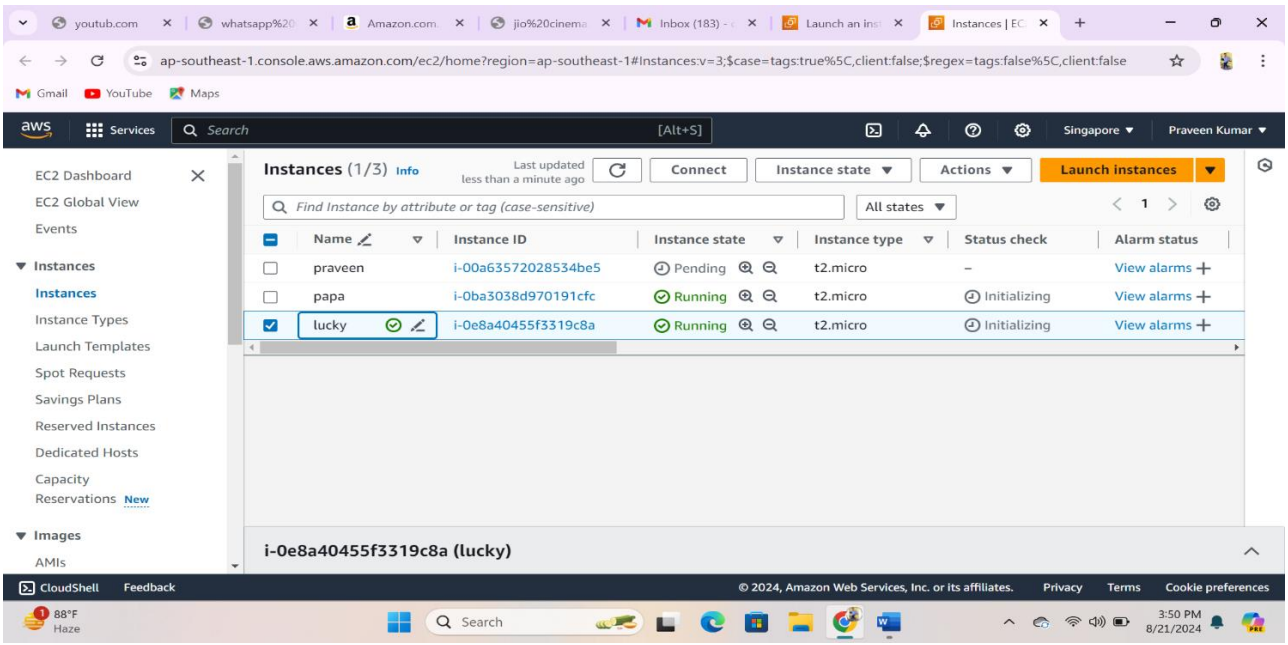


- Name = mylb
- Vpc =defult
- Inbound rules and add rule and ssh &http
- Now create a 3 instances in aws account

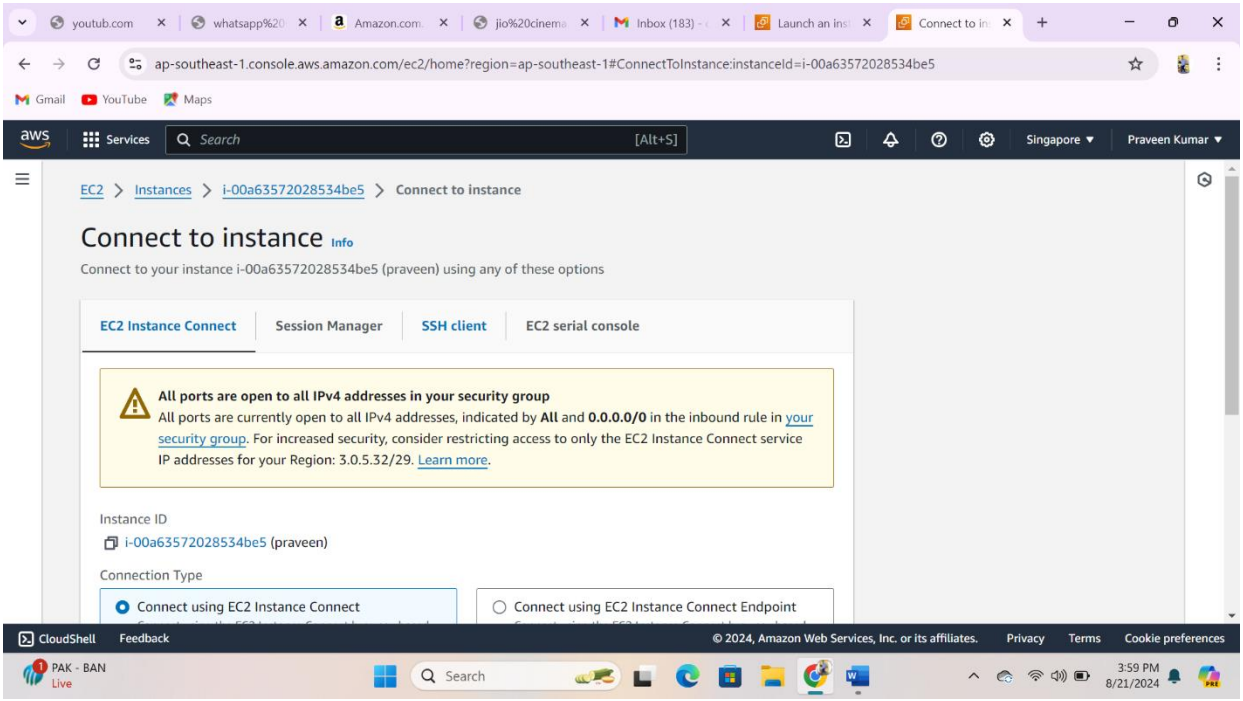
- Ec2 go to instances lunch instances name = praveen ,papa & lucky



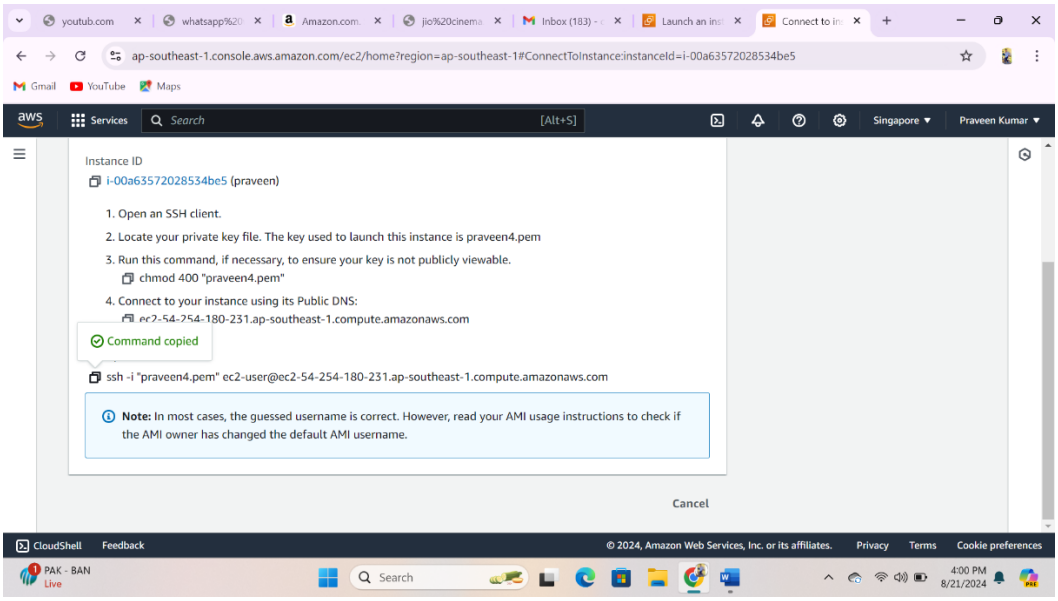




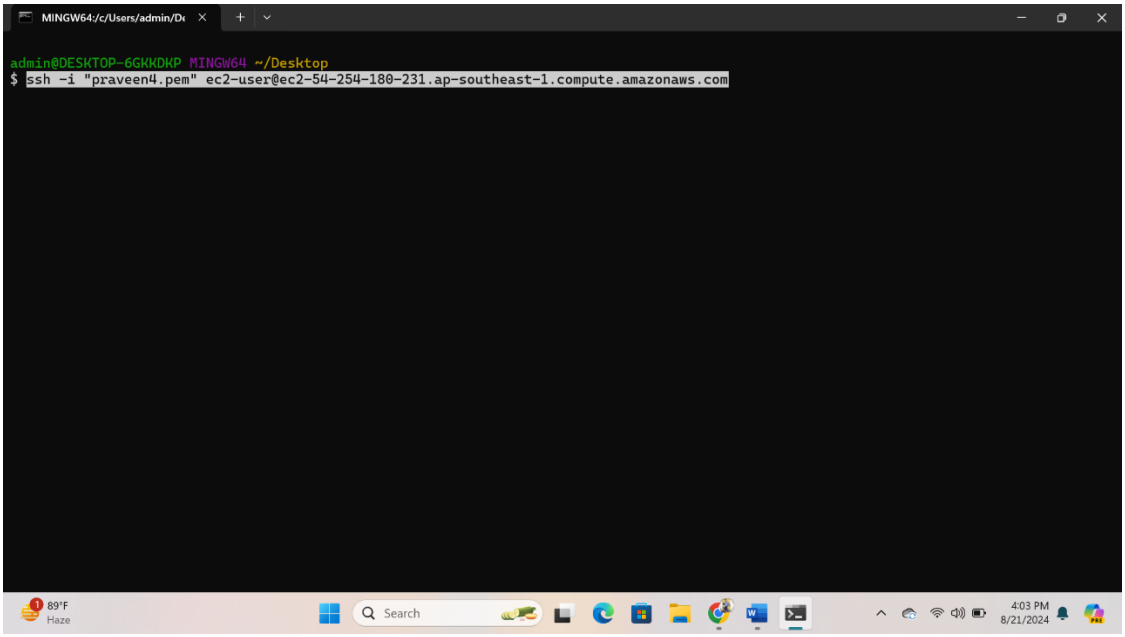
- Now cennect praveen instance and set hostname= praveen and install ingnx

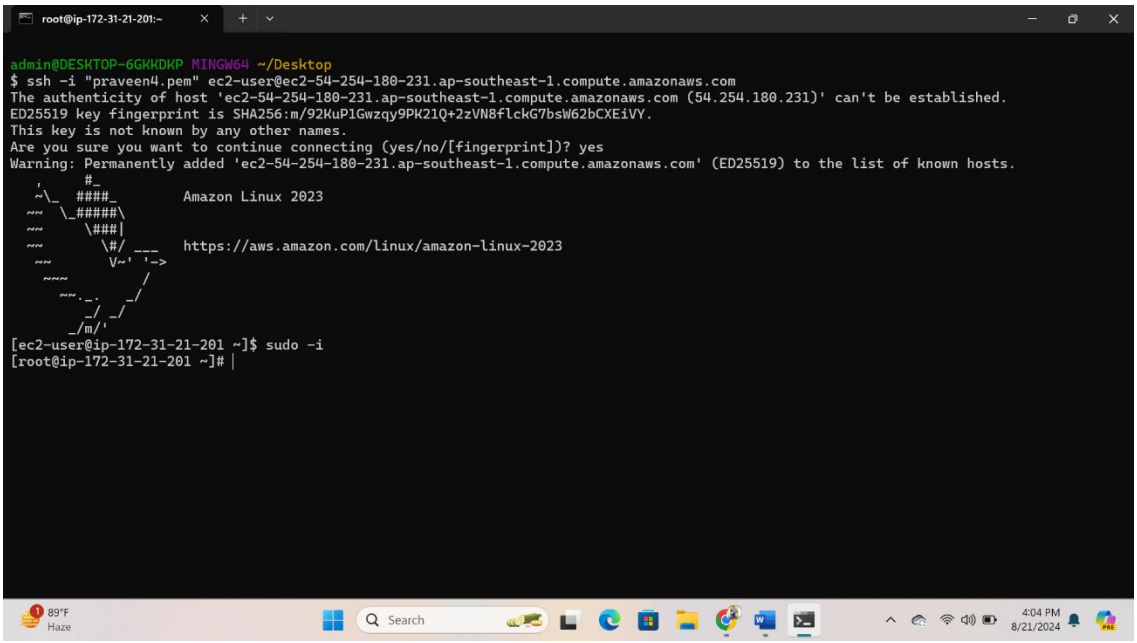


- Chosse the ssh client
-

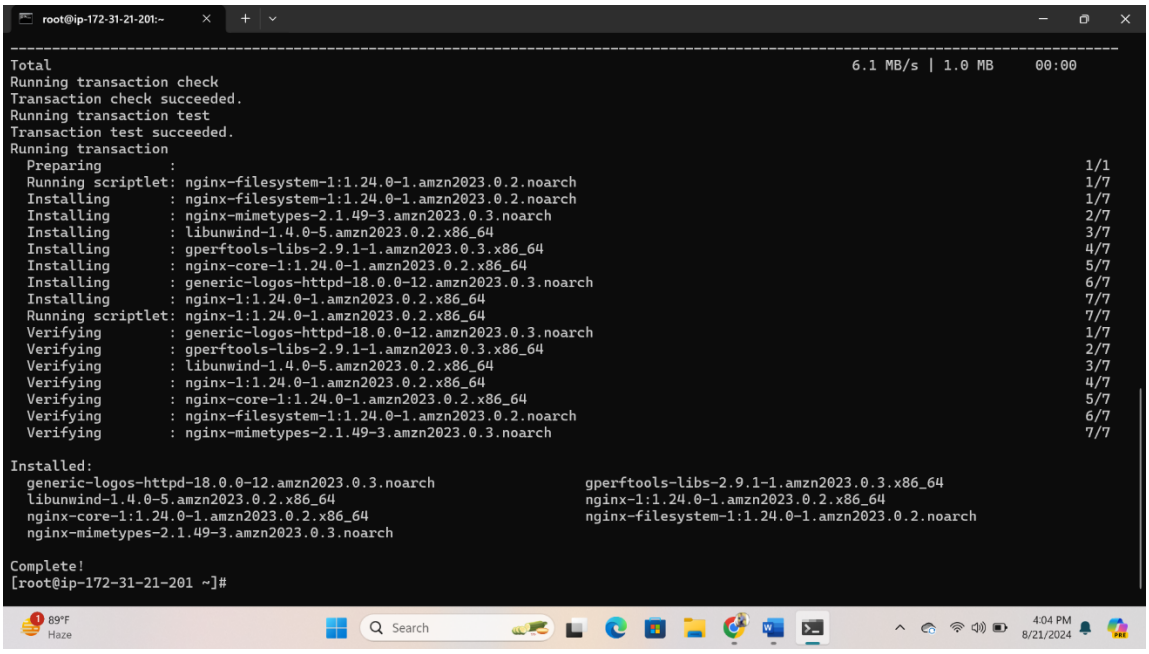


- Copy the url
- Now we to go on git bash to install ingnx & connect to server

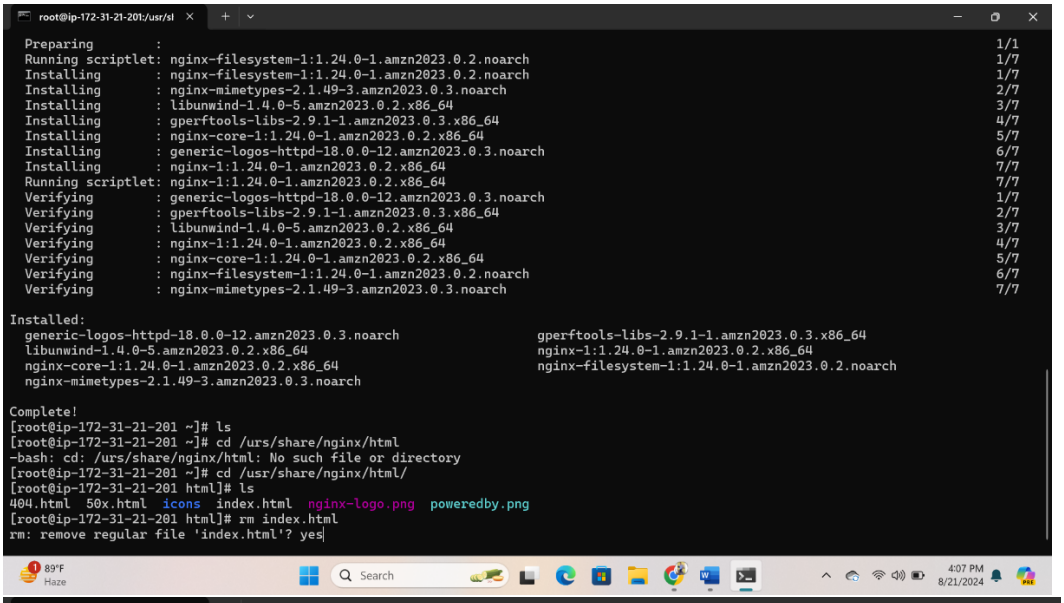


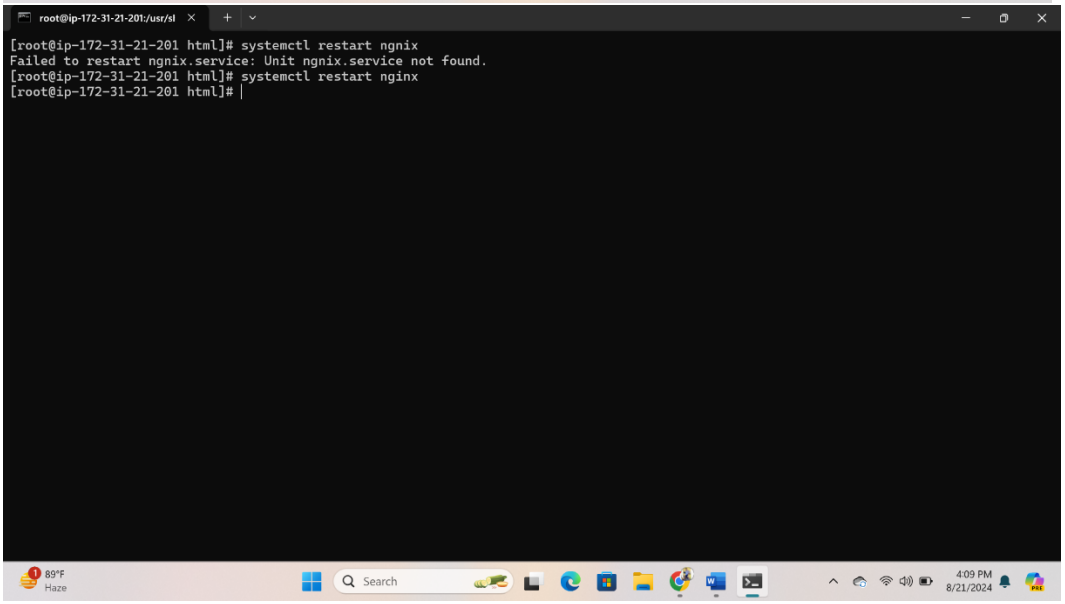


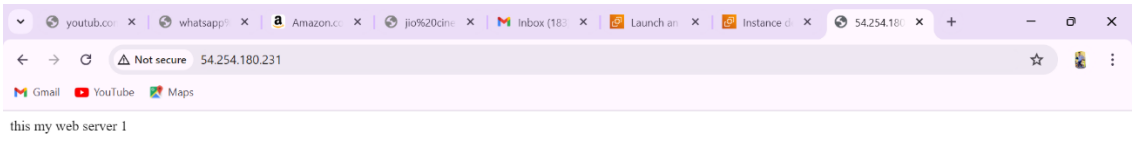
- We have check here because of connect of root acccou



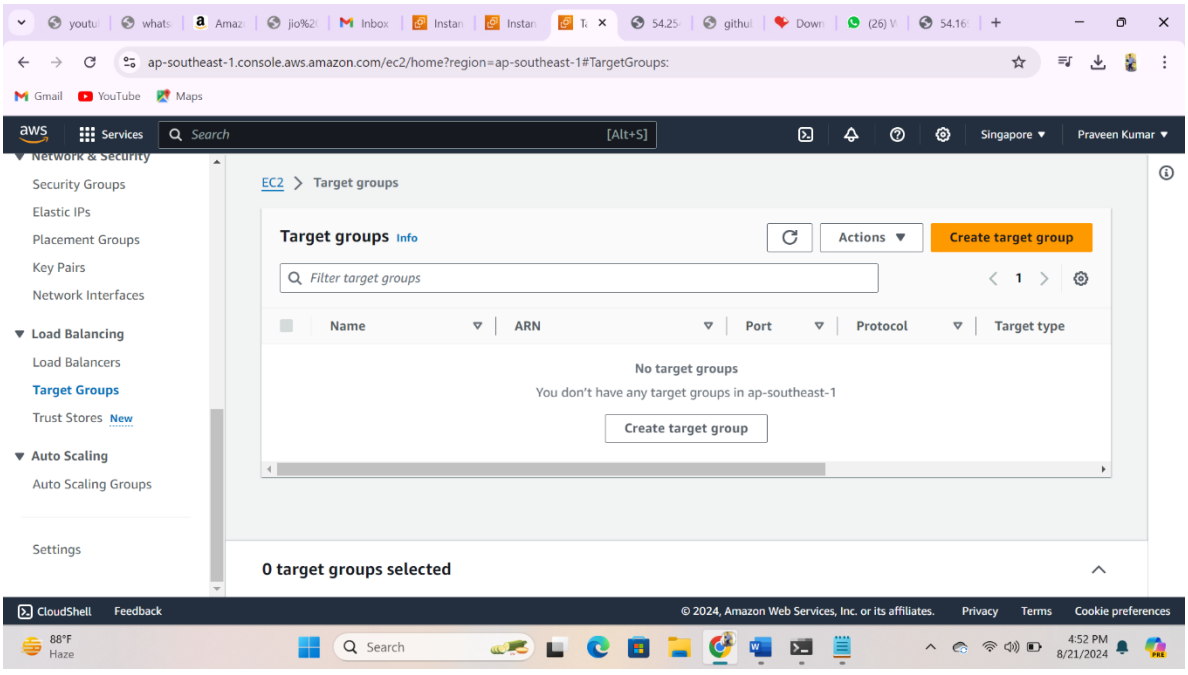
- Installed by nginx

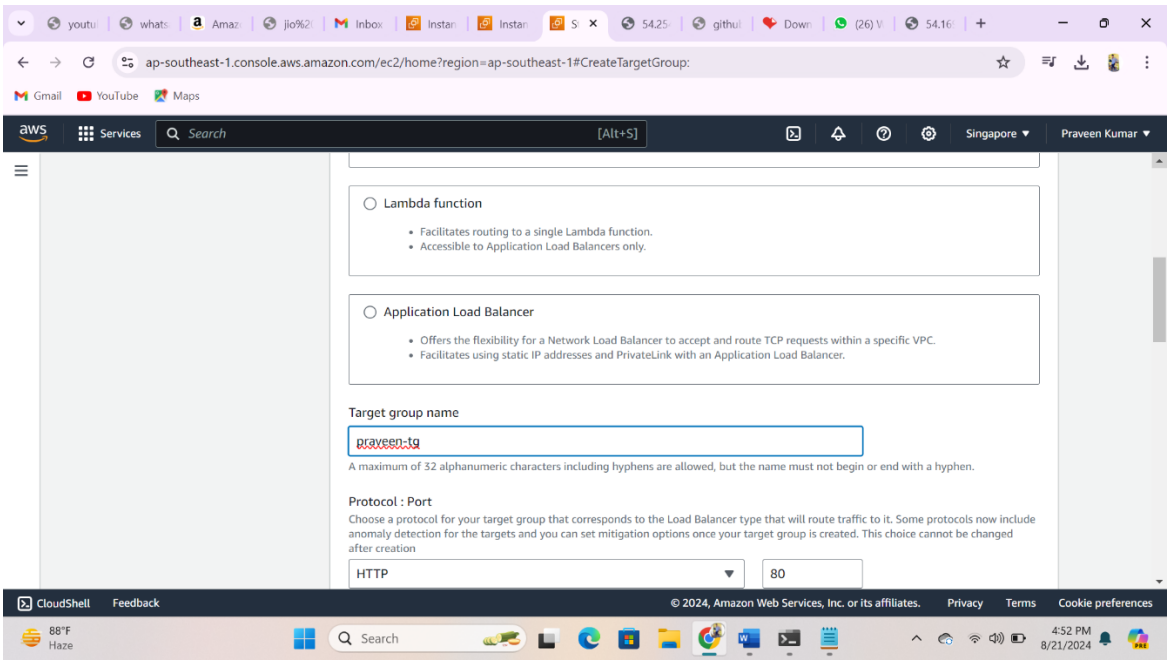

root@ip-172-31-21-201:/usr/sl
Preparing : 1/1
Running scriptlet: nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 1/7
Installing : nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 1/7
Installing : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch 2/7
Installing : libunwind-1.4.0-5.amzn2023.0.2.x86_64 3/7
Installing : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64 4/7
Installing : nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64 5/7
Installing : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 6/7
Installing : nginx-1:1.24.0-1.amzn2023.0.2.x86_64 7/7
Running scriptlet: nginx-1:1.24.0-1.amzn2023.0.2.x86_64 7/7
Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 1/7
Verifying : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64 2/7
Verifying : libunwind-1.4.0-5.amzn2023.0.2.x86_64 3/7
Verifying : nginx-1:1.24.0-1.amzn2023.0.2.x86_64 4/7
Verifying : nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64 5/7
Verifying : nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 6/7
Verifying : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch 7/7
Installed:
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
libunwind-1.4.0-5.amzn2023.0.2.x86_64
nginx-1:1.24.0-1.amzn2023.0.2.x86_64
nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64
nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch
nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Complete!
[root@ip-172-31-21-201 ~]# ls
[root@ip-172-31-21-201 ~]# cd /urs/share/nginx/html
-bash: cd: /urs/share/nginx/html: No such file or directory
[root@ip-172-31-21-201 ~]# cd /usr/share/nginx/html/
[root@ip-172-31-21-201 html]# ls
404.html 50x.html icons index.html nginx-logo.png poweredby.png
[root@ip-172-31-21-201 html]# rm index.html
rm: remove regular file 'index.html'? yes
89°F
Haze
Search
4:07 PM
8/21/2024

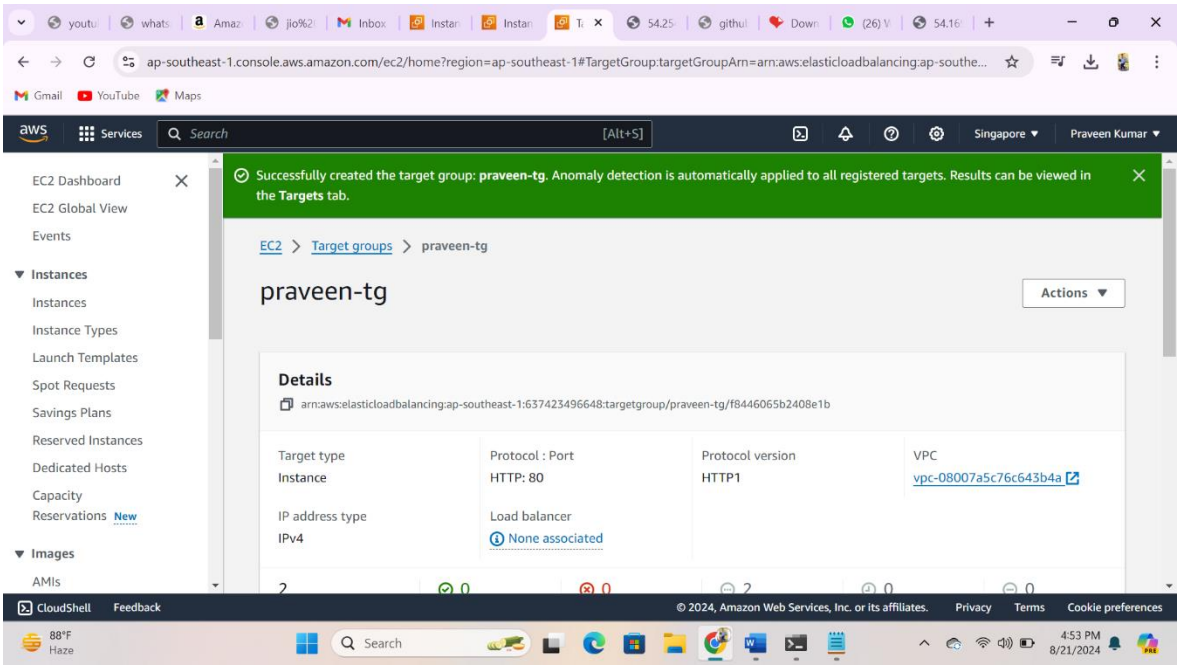

root@ip-172-31-21-201:/usr/sl
[root@ip-172-31-21-201 html]# systemctl restart ngnix
Failed to restart ngnix.service: Unit ngnix.service not found.
[root@ip-172-31-21-201 html]# systemctl restart nginx
[root@ip-172-31-21-201 html]#
89°F
Haze
Search
4:09 PM
8/21/2024



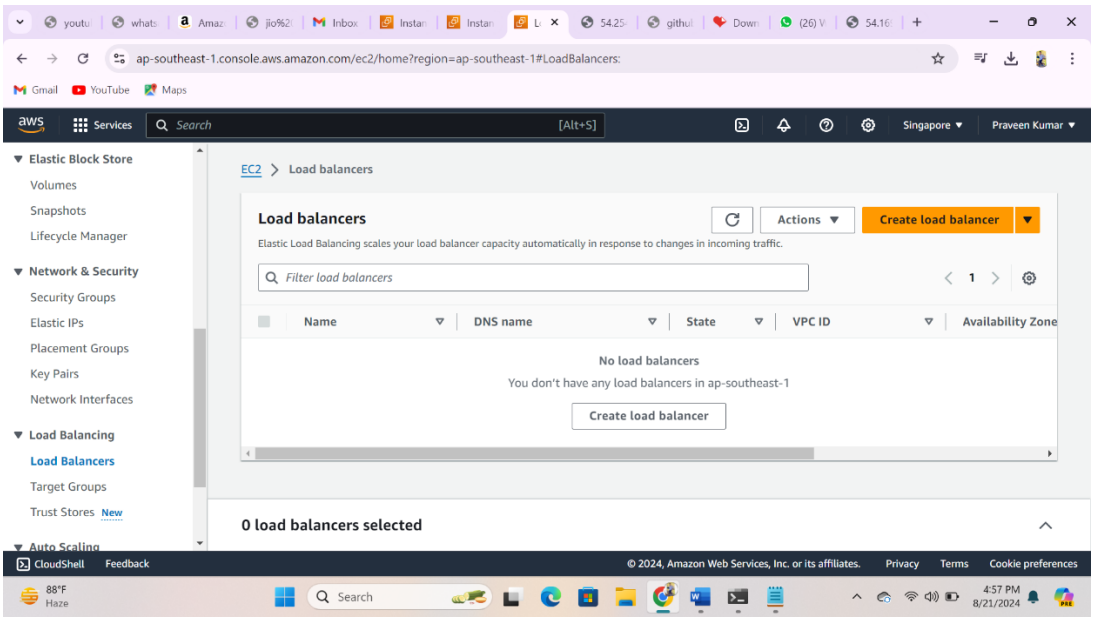
- After installed by nginx to conncted to server
- Same process to connect another two instance
- Now go to ec2 instance select target group
- Create target group
- Slect instances
- Targect group name = praveen-tg
- Click next



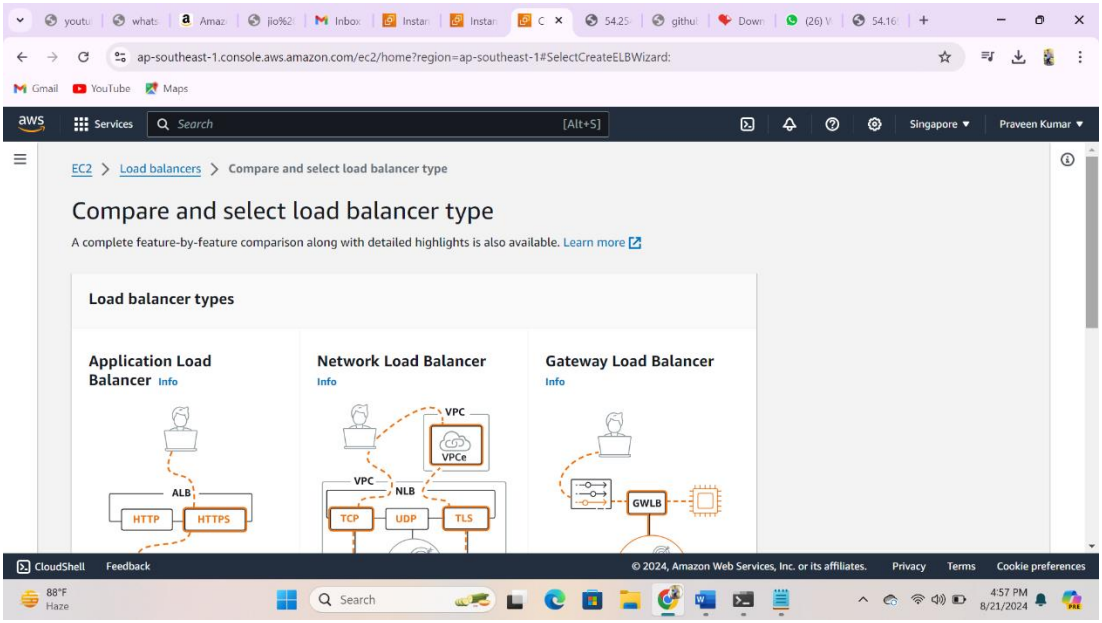


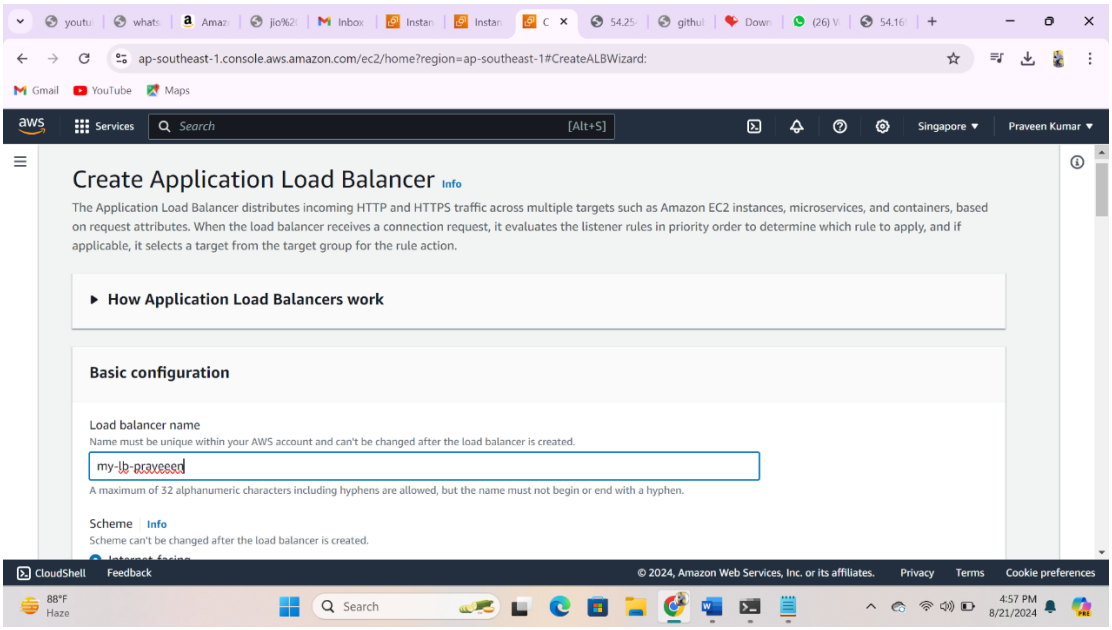


- Now g to load balancer click create loadbalancer

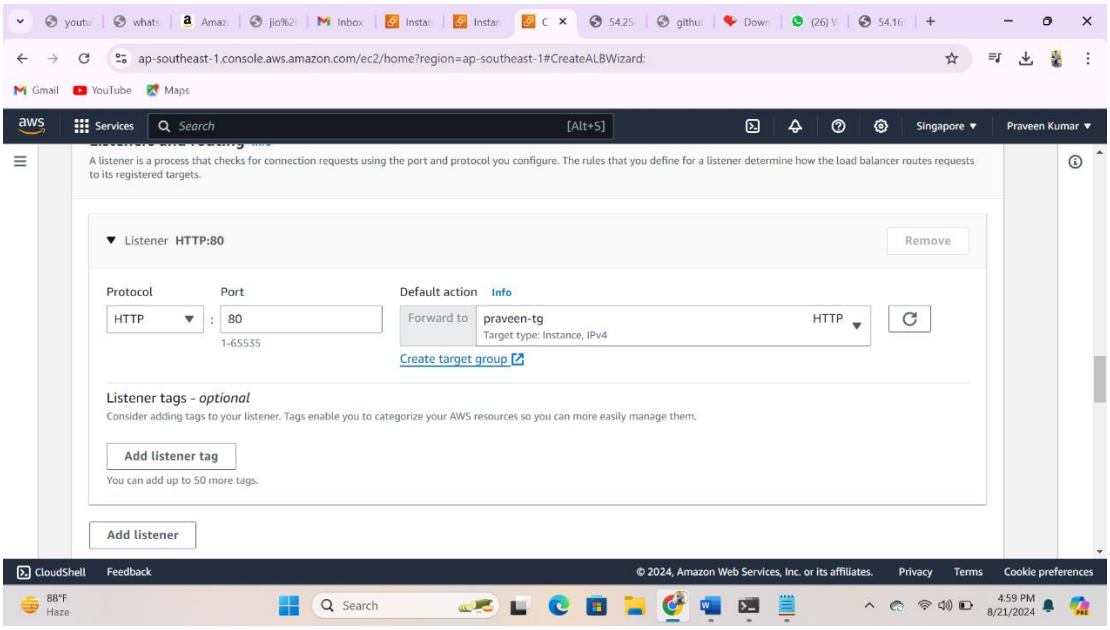


-
- Chosse on application load balancer

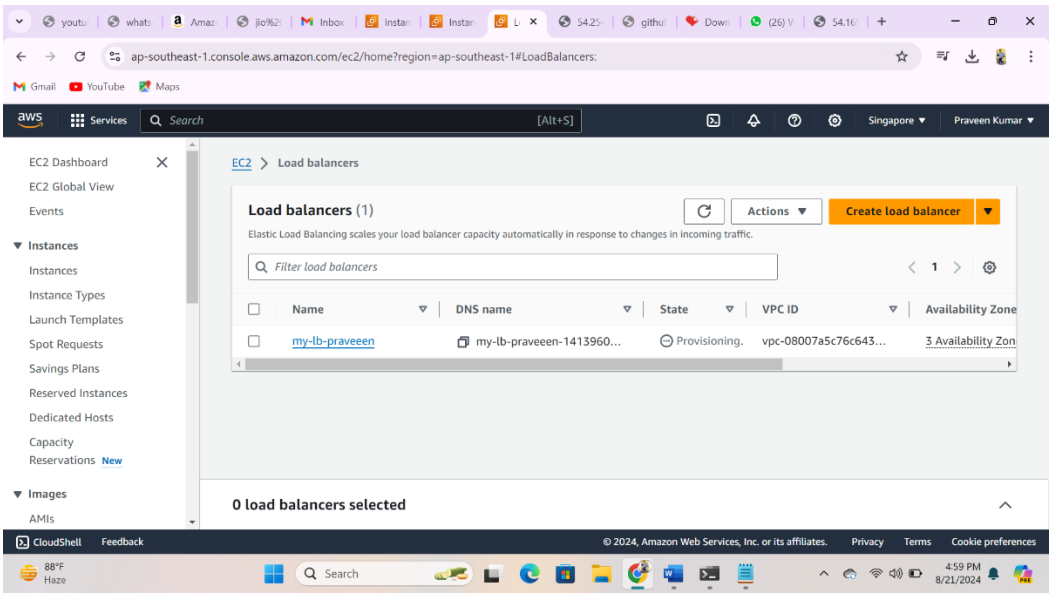


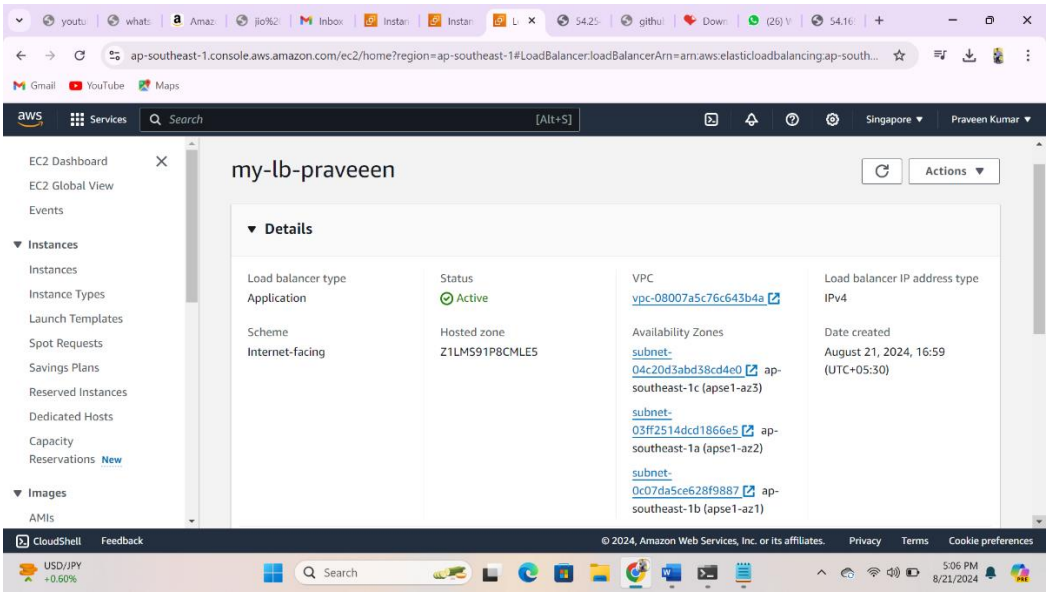


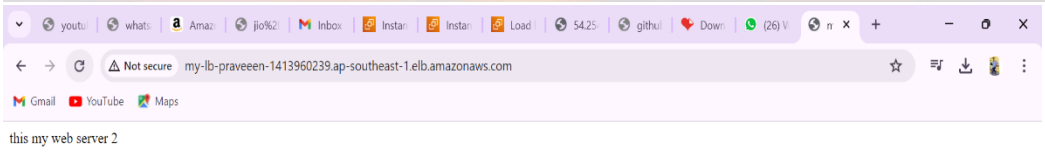
- Load balancer name=my-lb-praveen



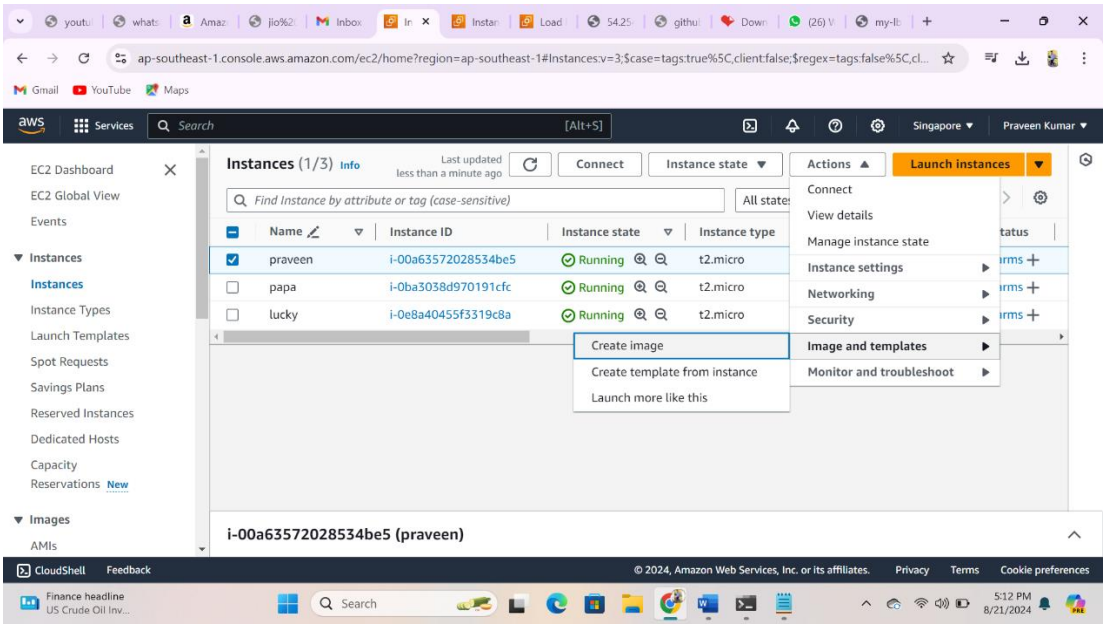
- Attach to target group

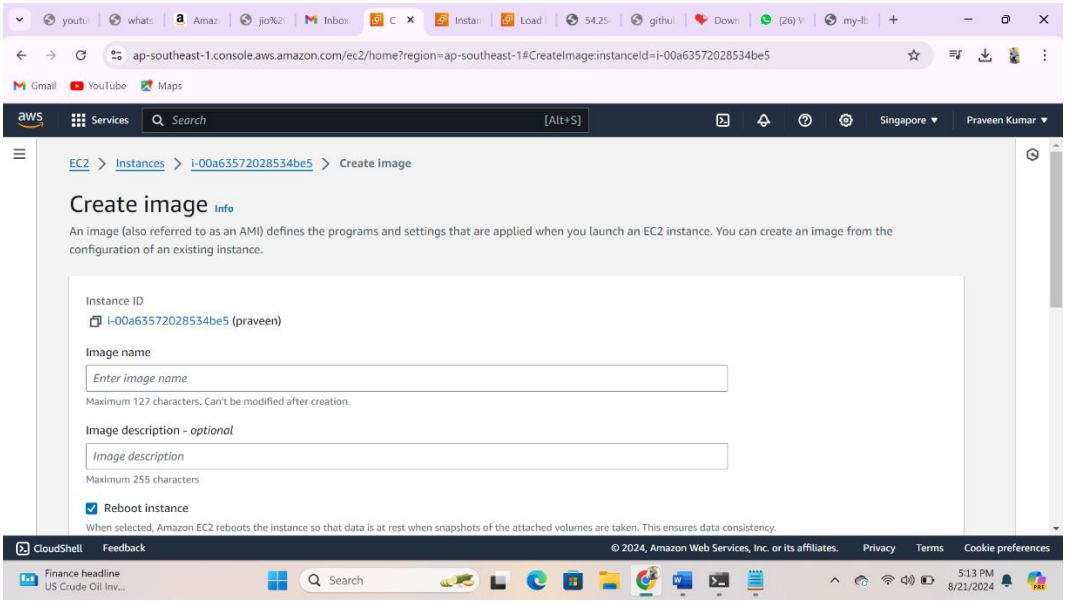

ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LoadBalancers:
Gmail
YouTube
Maps
aws
Services
Search
[Alt+S]
Singapore
Praveen Kumar
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
EC2 > Load balancers
Load balancers (1)
Actions
Create load balancer
Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.
Filter load balancers
Name
DNS name
State
VPC ID
Availability Zone
my-lb-praveeen
my-lb-praveeen-1413960...
Provisioning.
vpc-08007a5c76c643...
3 Availability Zon
0 load balancers selected
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
88°F
Haze
Search
4:59 PM
8/21/2024

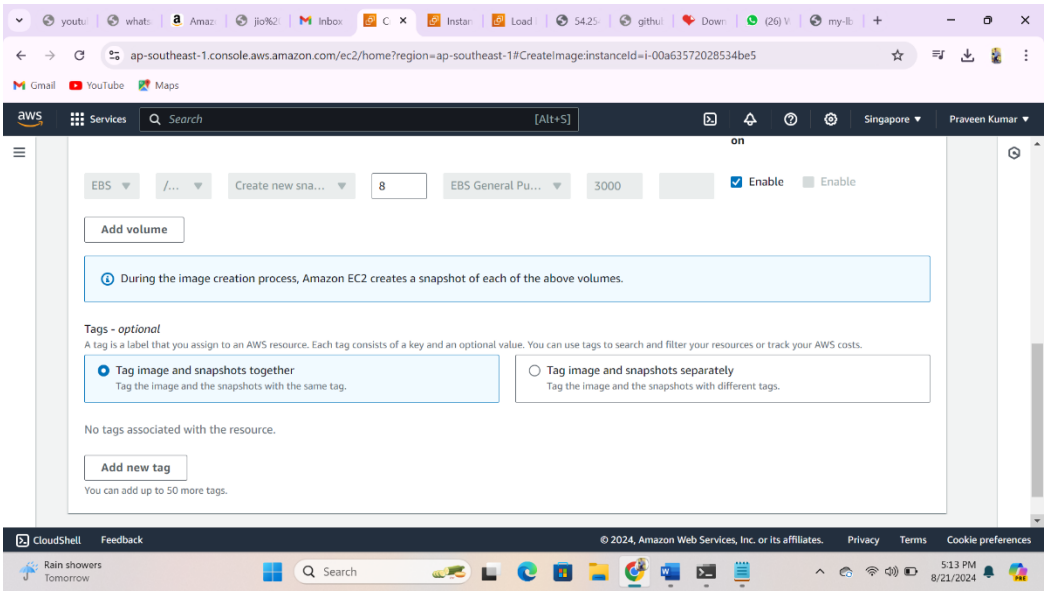




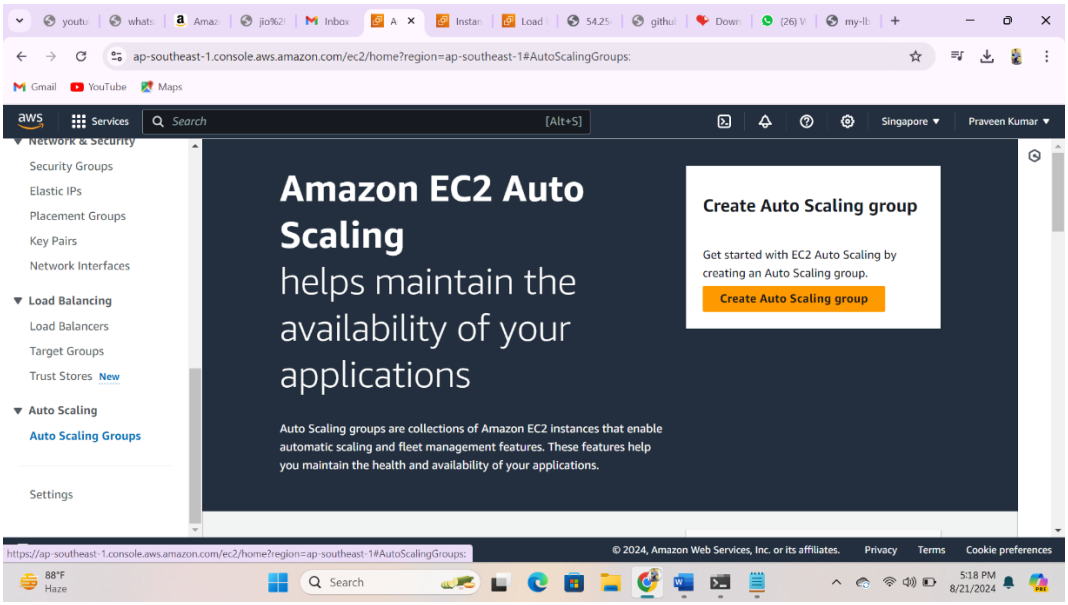
- Go to instance select one instance praveen or papa.
- Select one click actions click image and template and click create image.


ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,cl...
Gmail
YouTube
Maps
aws
Services
Search
[Alt+S]
Singapore
Praveen Kumar
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
Instances (1/3) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
praveen
i-00a63572028534be5
Running
t2.micro
papa
i-0ba3038d970191cfc
Running
t2.micro
lucky
i-0e8a40455f3319c8a
Running
t2.micro
Connect
View details
Manage instance state
Instance settings
Networking
Security
Image and templates
Monitor and troubleshoot
Create image
Create template from instance
Launch more like this
i-00a63572028534be5 (praveen)
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Finance headline
US Crude Oil Inv...
Search
5:12 PM
8/21/2024

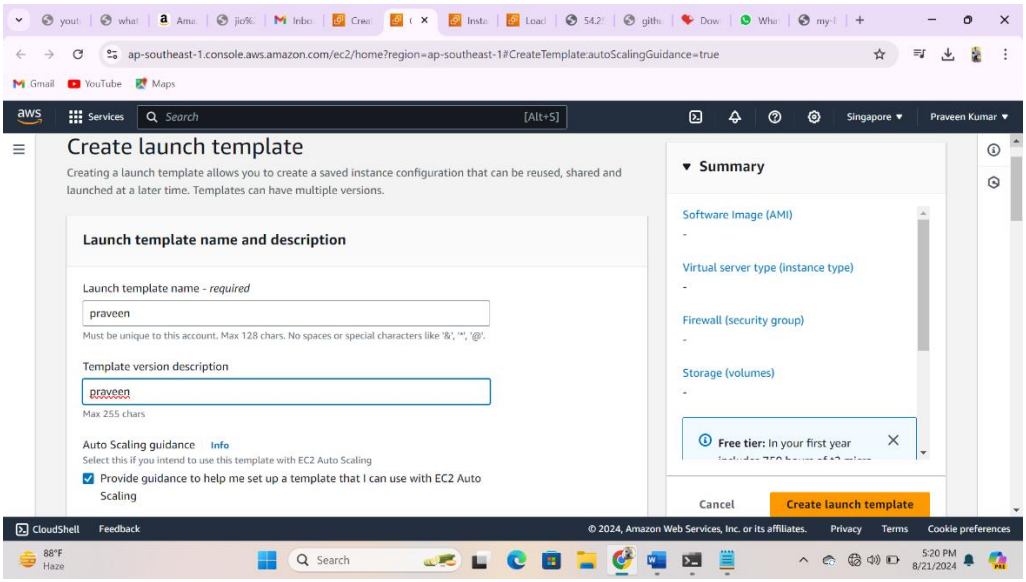

ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#CreateImage:instanceId=i-00a63572028534be5
Gmail
YouTube
Maps
aws
Services
Search
[Alt+S]
Singapore
Praveen Kumar
EC2 > Instances > i-00a63572028534be5 > Create image
Create image Info
An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.
Instance ID
i-00a63572028534be5 (praveen)
Image name
Enter image name
Maximum 127 characters. Can't be modified after creation.
Image description - optional
Image description
Maximum 255 characters
Reboot instance
When selected, Amazon EC2 reboots the instance so that data is at rest when snapshots of the attached volumes are taken. This ensures data consistency.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Finance headline
US Crude Oil Inv...
Search
5:13 PM
8/21/2024

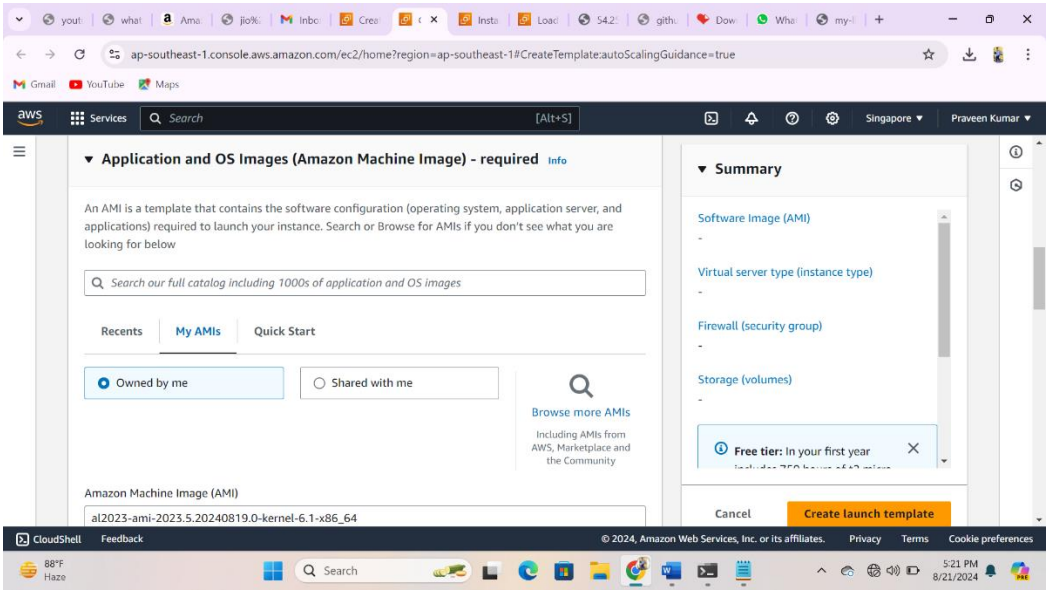


- Now go to auto scalling group click it
- Click create auto scalling group

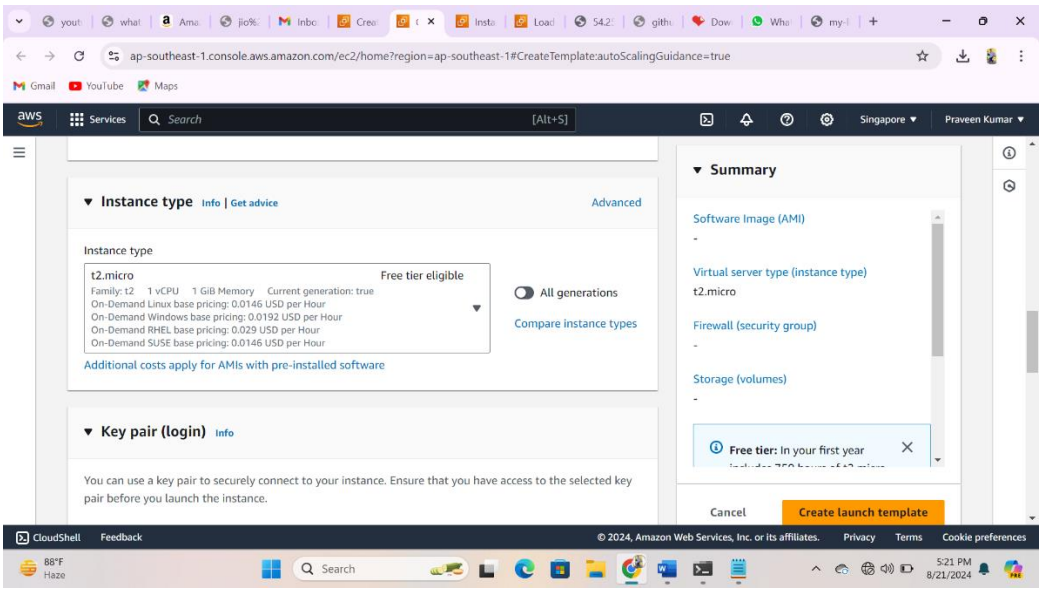


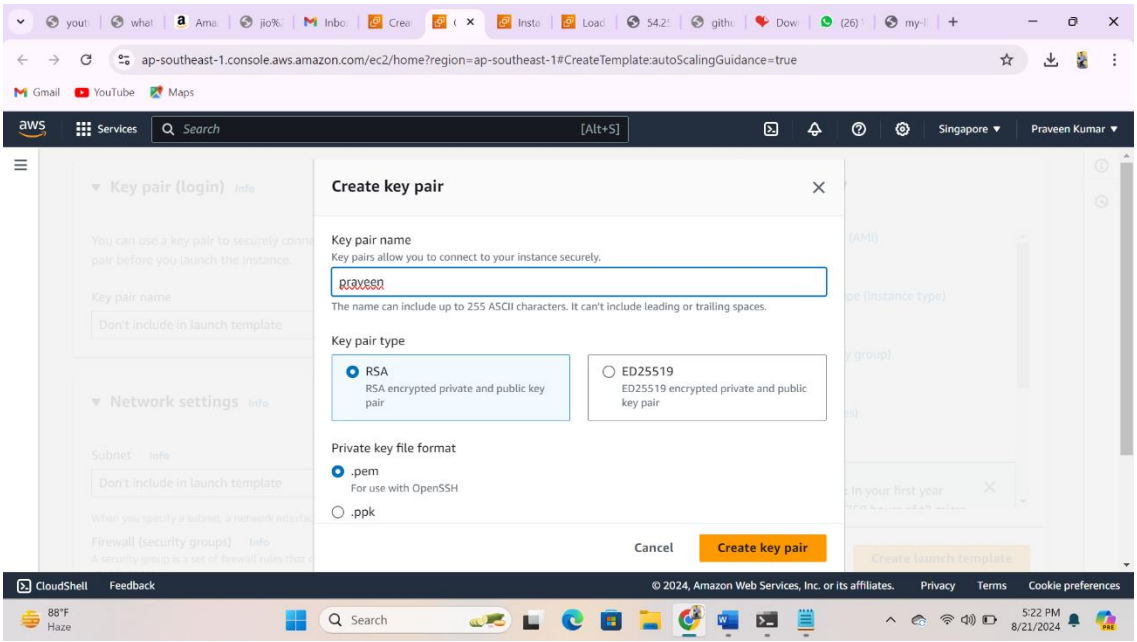
Name = praveen



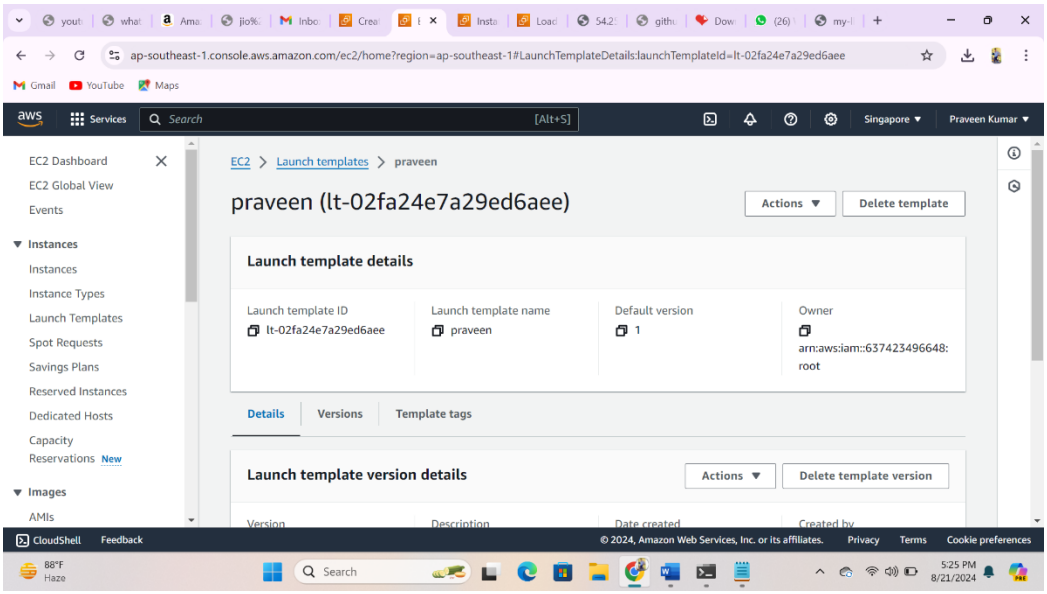


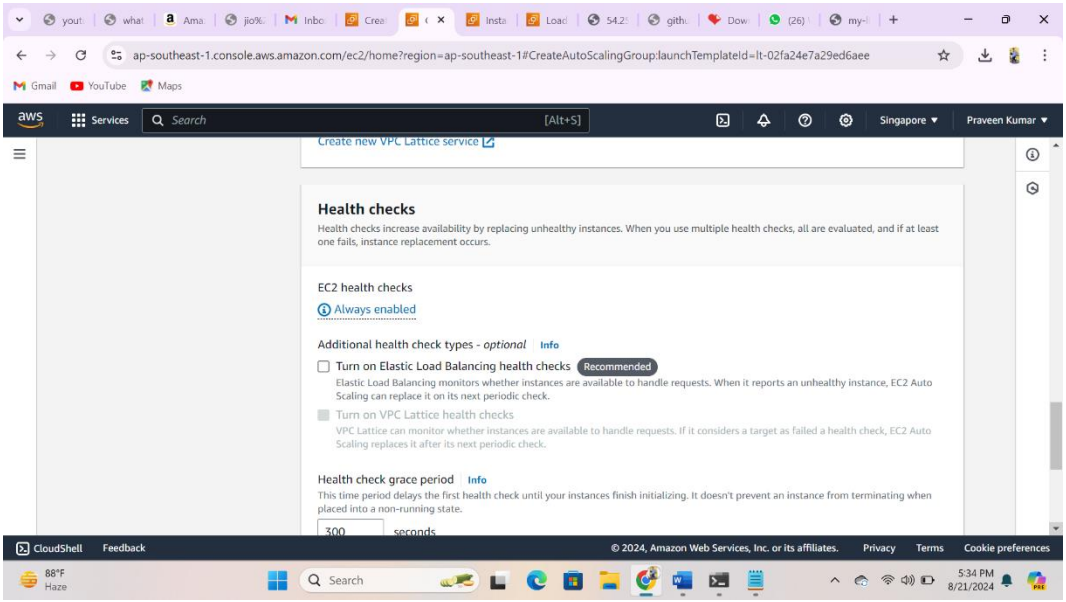
- Sg = mylb
- Don’t select subnets here
- Click create launch template
- Now select templete =praveen

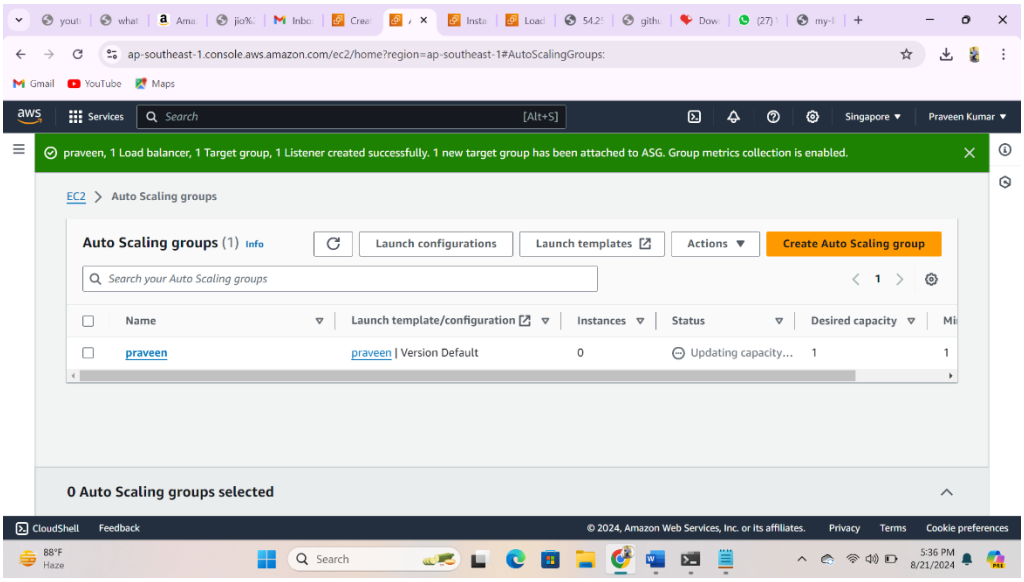




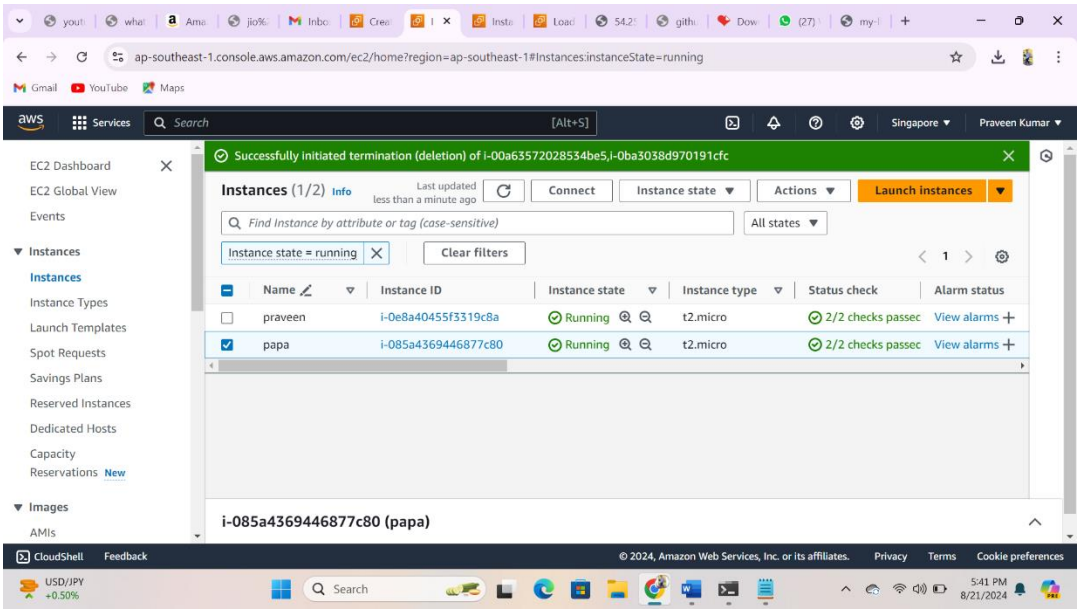
- Click next here you want add sns notification topic next and next create auto scalling.


ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LaunchTemplateDetails:launchTemplateId=lt-02fa24e7a29ed6aee
Services
Search
[Alt+S]
Singapore
Praveen Kumar
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
EC2 > Launch templates > praveen
praveen (lt-02fa24e7a29ed6aee)
Actions
Delete template
Launch template details
Launch template ID
lt-02fa24e7a29ed6aee
Launch template name
praveen
Default version
1
Owner
arn:aws:iam::637423496648:root
Details
Versions
Template tags
Launch template version details
Actions
Delete template version
Version
Description
Date created
Created by
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
88°F
Haze
Search
5:25 PM
8/21/2024


ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#CreateAutoScalingGroup:launchTemplateId=lt-02fa24e7a29ed6aee
Services
Search
[Alt+S]
Singapore
Praveen Kumar
Create new VPC Lattice service
Health checks
Health checks increase availability by replacing unhealthy instances. When you use multiple health checks, all are evaluated, and if at least one fails, instance replacement occurs.
EC2 health checks
Always enabled
Additional health check types - optional
Info
Turn on Elastic Load Balancing health checks
Recommended
Elastic Load Balancing monitors whether instances are available to handle requests. When it reports an unhealthy instance, EC2 Auto Scaling can replace it on its next periodic check.
Turn on VPC Lattice health checks
VPC Lattice can monitor whether instances are available to handle requests. If it considers a target as failed a health check, EC2 Auto Scaling replaces it after its next periodic check.
Health check grace period
Info
This time period delays the first health check until your instances finish initializing. It doesn't prevent an instance from terminating when placed into a non-running state.
300
seconds
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
88°F
Haze
Search
5:34 PM
8/21/2024



Now go ec2 instance check instance
You see add 2 serverr automatically and remove old instance
Set new server names



- This the process of the auto scalling