

Subject: Advance Cloud Computing(ACC)

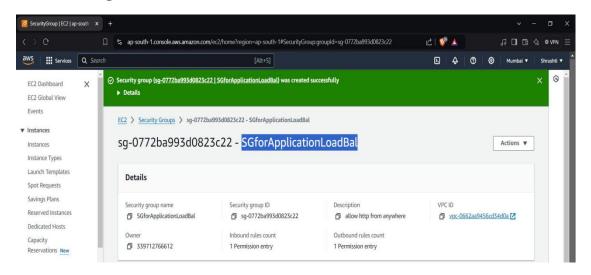
Name of the Student: Shrushti Krishna Shrivastav PRN: 20220801024

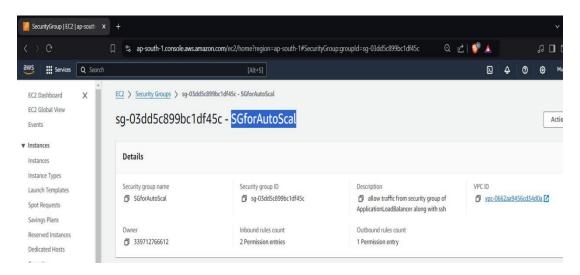
Title of Practicle: Creating an Application Load Balancer and Auto Scaling

Group in AWS

Step1: create one <u>security group</u> for application load balancer and one for

autoscaling





ALB--inbound--http from anywhere



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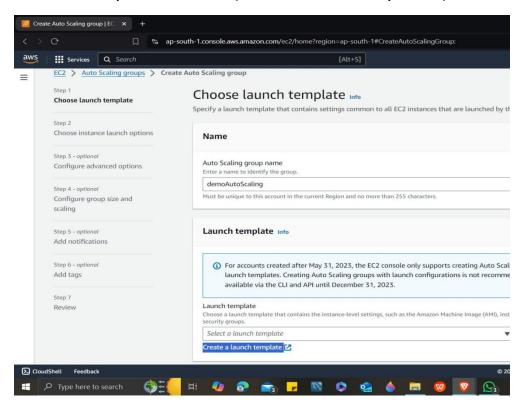
AutoScaling--inbound--ssh from anywhere and AllTCP from source of ALB

Step2: create autoscaling:

A--

Name

Launch template-- create(new tab will be opened)



Name; AMI; Instance; KeyPair; Security group;



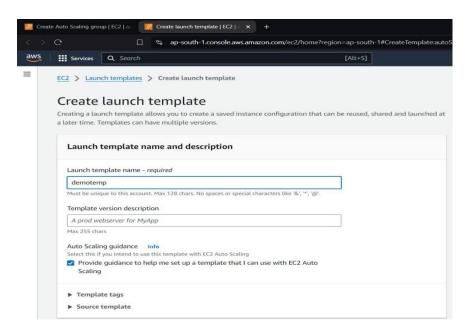
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Adv detail: (at bottom)-- user data -- add script



PRN: 20220801024

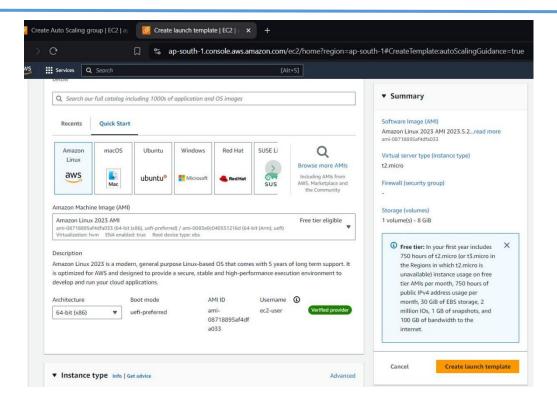


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PRN: 20220801024

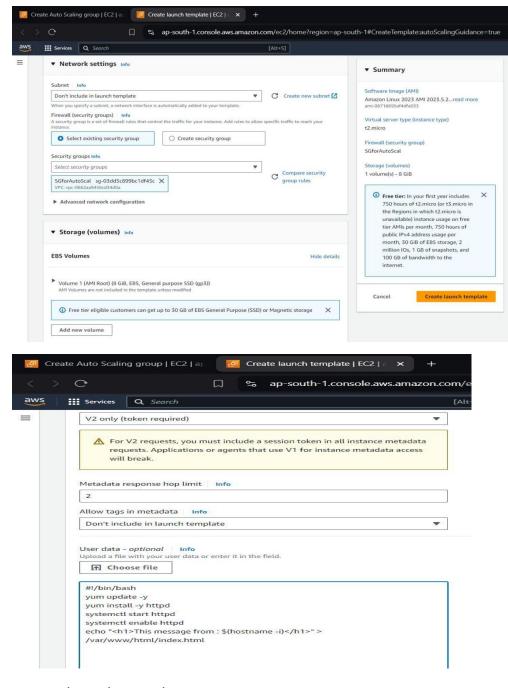


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Create launch template



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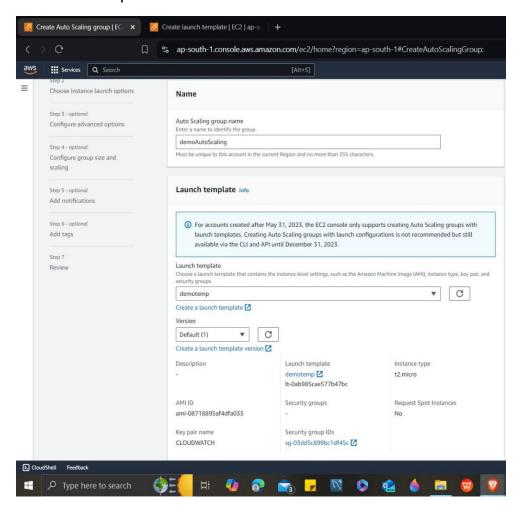
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Now go back to previous tab of autoscaling group----

In launch template attach the created one.



Next



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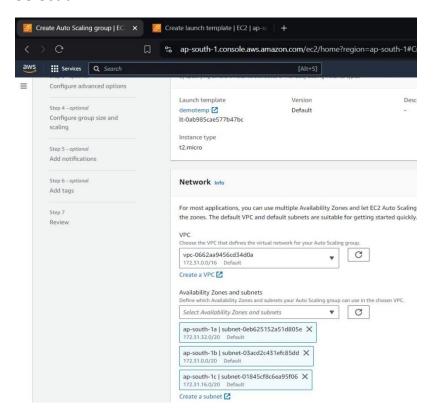
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B--

Select all AZ



C---

Attach new loadbalancer

Application load balancer



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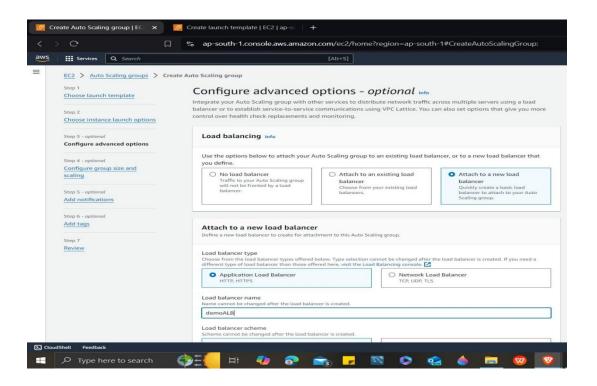
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Name

Internet facing

Creat target group



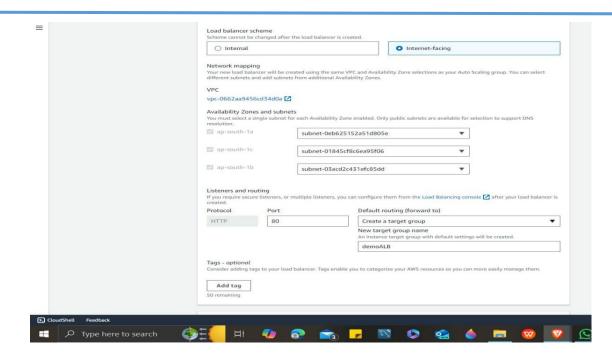


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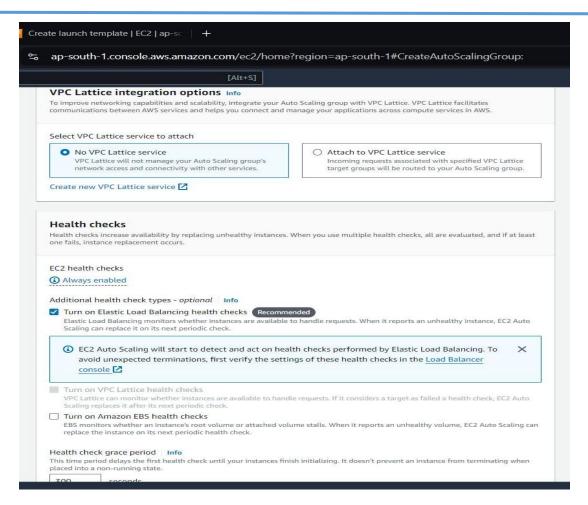
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Ensure to check 'turn on elastic load balancing health check'

Next

D--

Desired: 1 --- min: 1 ---- max: 2

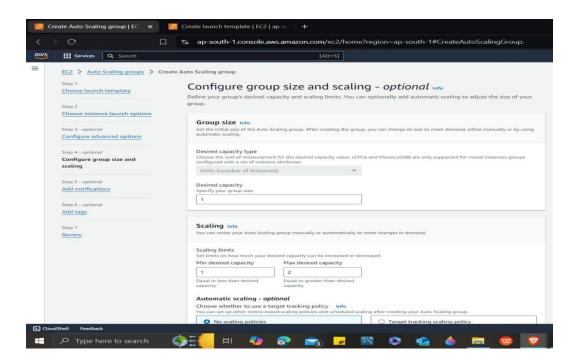


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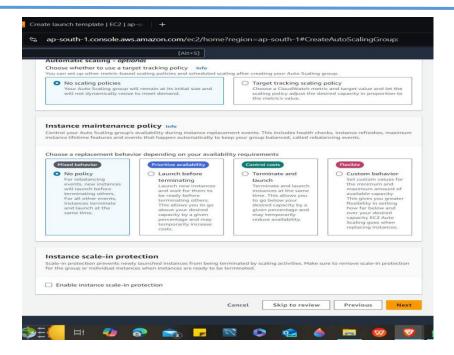


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Next

No changes for rest of the steps.

Last step: review

Now create autoscaling group.

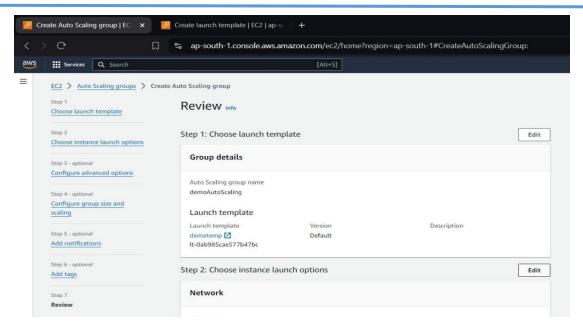


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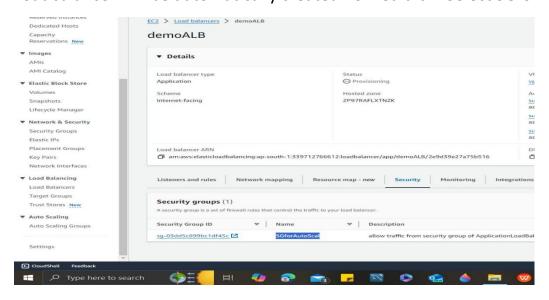
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Step 3: load balancer

Loadbalancer will be automatically created now edit it. Select SGforALB



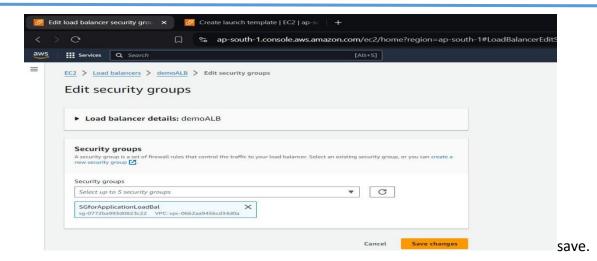


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Step4: autoscaling group

ASG-- activity -- now view what it is doing

Instance management --- to view if instance is created

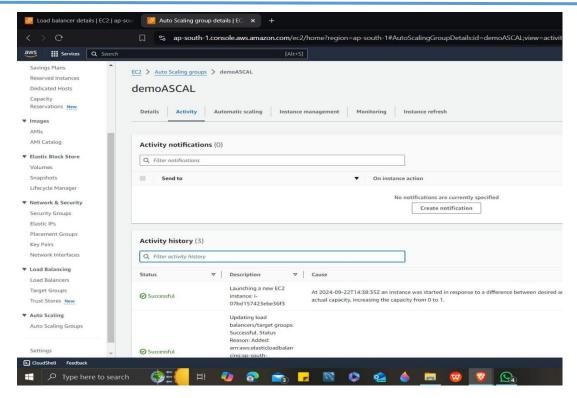


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Step5: load balancer

Copy DNS name and paste on browser

Should get msg ----- 'this msg from ip-address'

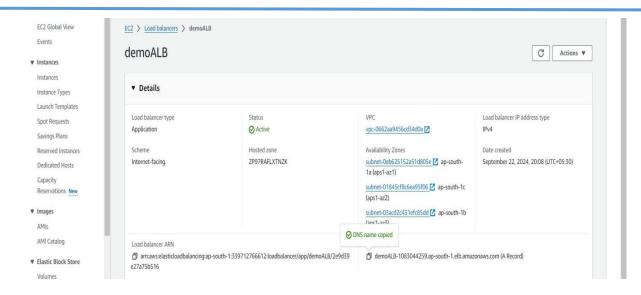


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This message from: 172.31.8.144

Step6: autoscaling

Dynamic scaling policy --



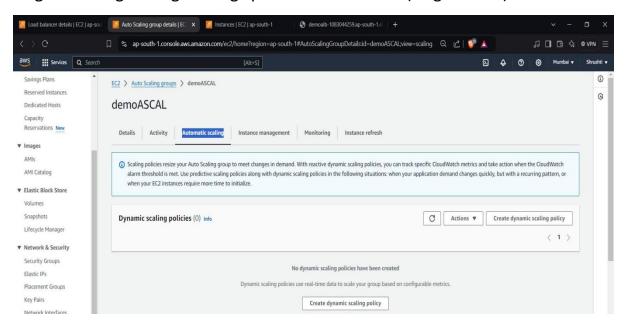
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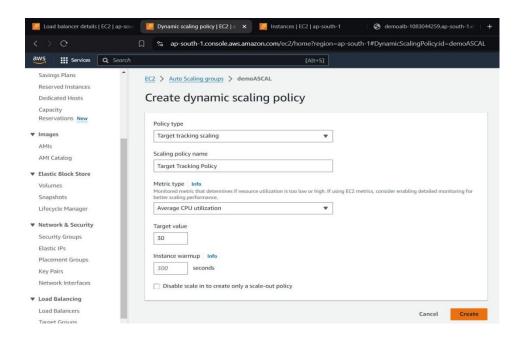
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target tracking scaling ----avg cpu utilization ---- 30(target value)







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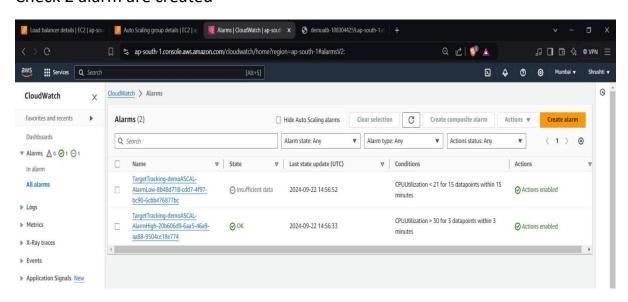
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Step7: cloud watch

Check 2 alarm are created



Now test the policy

Step8: autoscaling

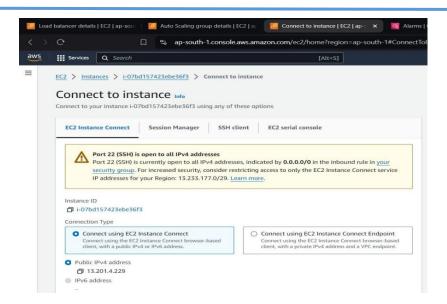


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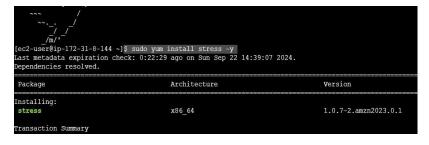


Commands followed are:

Sudo yum install stress -y

Sudo stress --cpu 12 --timeout 240

Sudo yum install stress -y



Sudo stress --cpu 12 --timeout 240s



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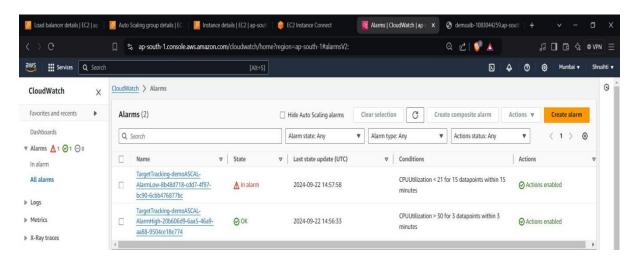
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[ec2-user@ip-172-31-8-144 ~]\$ sudo yum install stress -y
Last metadata expiration check: 0:34:03 ago on Sun Sep 22 14:39:07 2024.
Package stress-1.0.7-2.amzn2023.0.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-8-144 ~]\$ sudo stress --cpu 12 --timeout 240s
stress: info: [28390] dispatching hogs: 12 cpu, 0 io, 0 vm, 0 hdd

Step9: go to alarm and check

IN-ALARM



Step10: autoscaling instance management

New instance will be launched

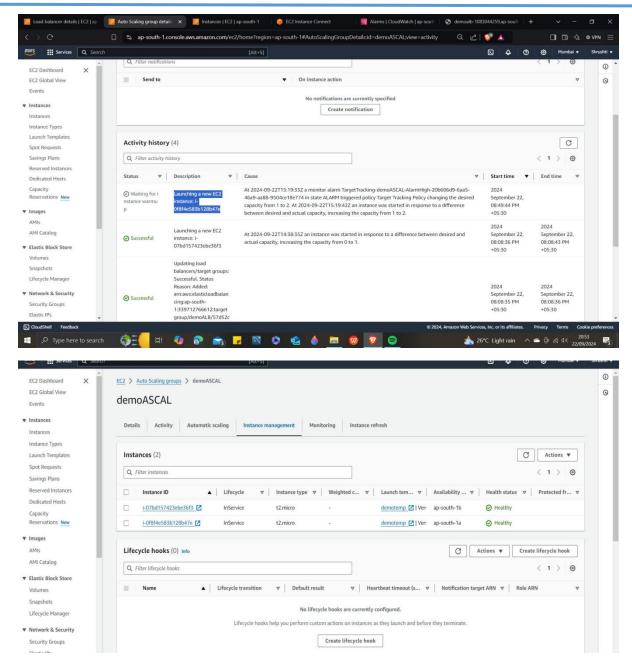


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Step11: now refresh the browser with DNS address



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This message from: 172.31.35.245

New dns will appear which is of new instance

Steps to delete the set-up:

- 1:loadbalancer
- 2:Autoscaling
- 3:instance
- 4:launch template
- 5:security group
- 6:target group

Done.