Project 2(a): Generate a Classical load Balancer with 3 different web servers:

1. Apache

2.Apache 2

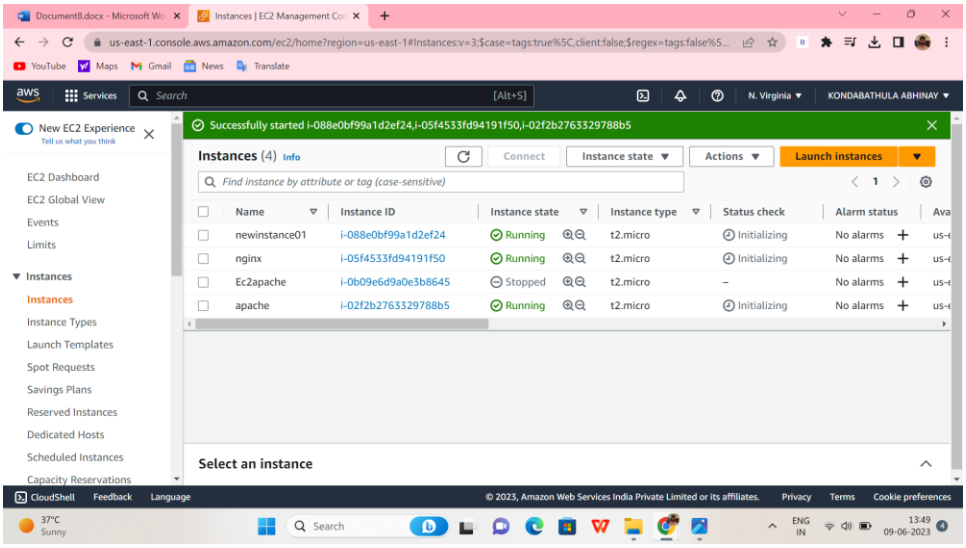
3. Nginx

Step 1: Launch an Ec2 instance and install Apache web server in it which is our last project.

Step 2: Launch another instance with Apache 2 web server

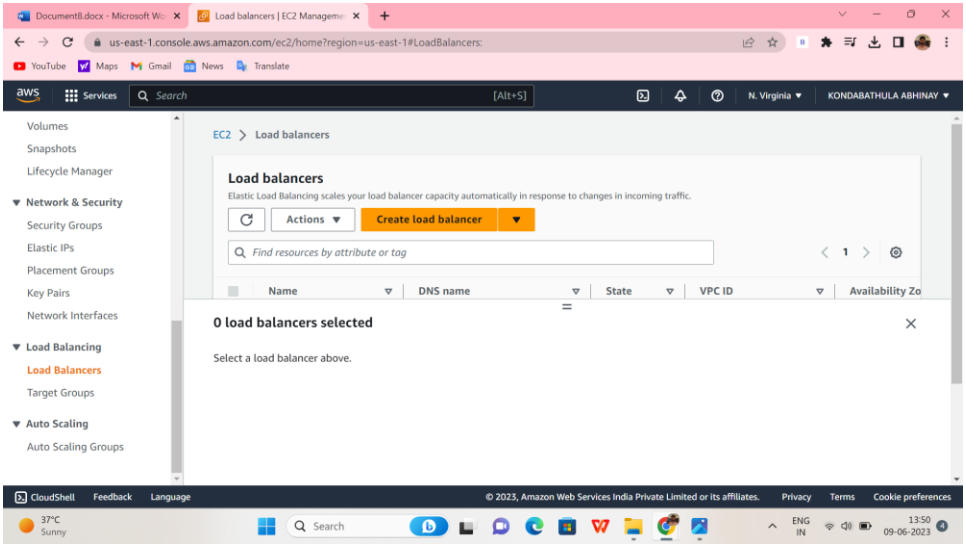
Step 3: Launch another and install NGINX webserver in it.

Commands: connect to ssh -->sudo -I --> yum update --> yum install nginx --> systemctl start nginx --> take the Public ip address and check in chrome.



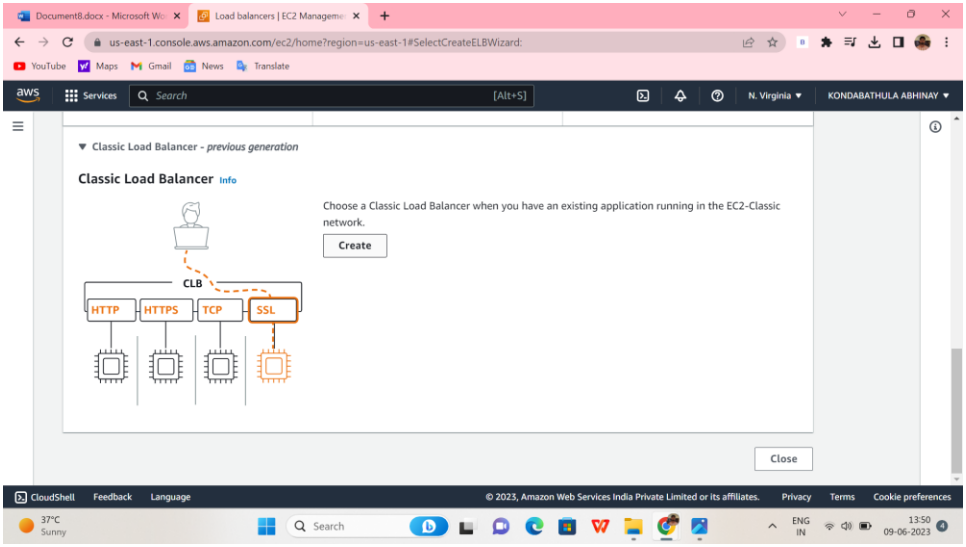
Step 4: Make sure that all the instances having the port 80 in inbound rules.

Step 5: Go to search bar and search for ‘”LoadBalancer” and select it

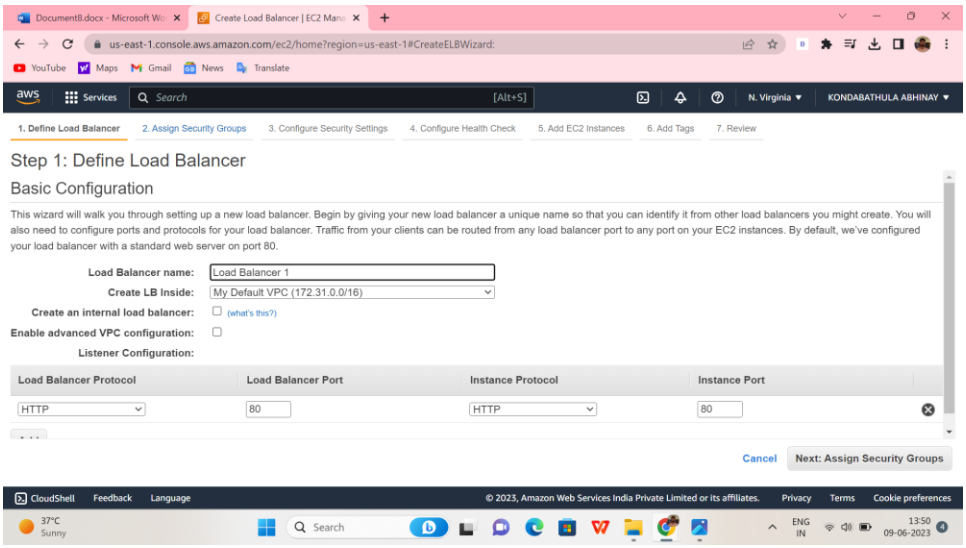


Step6: Click on the “create Load Balancer”

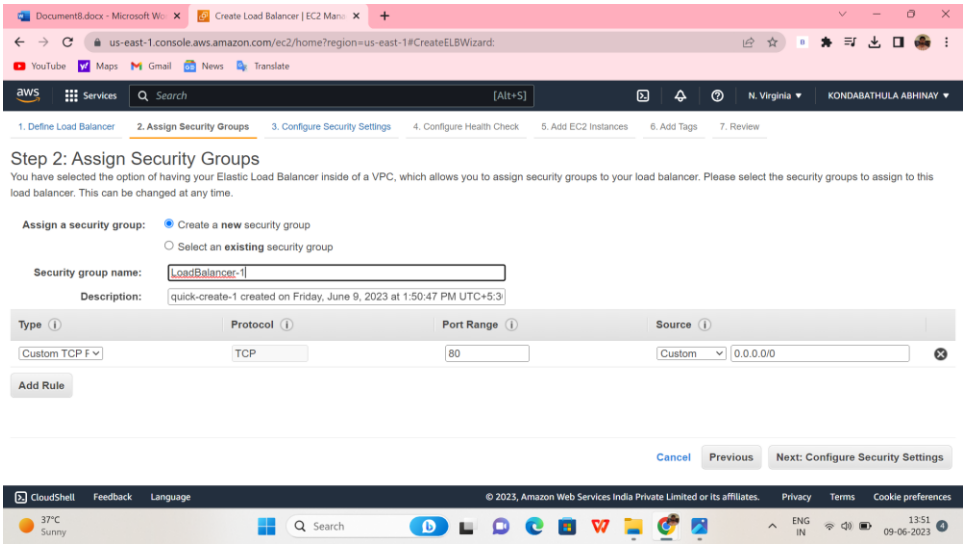
Step 7: Select the “Classic Load balancer” which is in the last of the list.



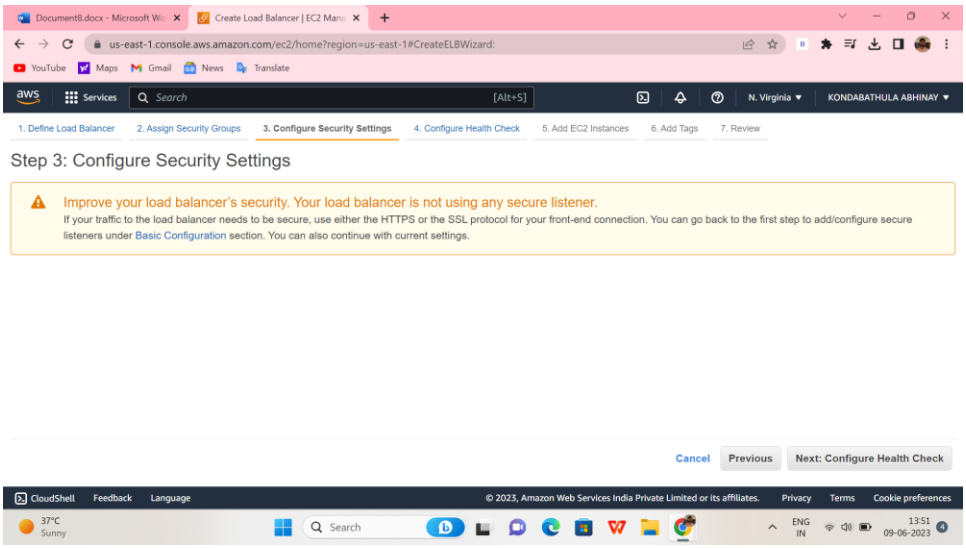
Step 8: Give a name to your group as “Load balancer 1” and click next.



Step 9: Create a new security group and name it as “Load Balancer 1”



Step 10: Click next two times and now select the instances you just created with 3 different web servers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Create Load Balancer | EC2 Mana
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KONDABATHULA ABHINAY
1. Define Load Balancer
2. Assign Security Groups
3. Configure Security Settings
4. Configure Health Check
5. Add EC2 Instances
6. Add Tags
7. Review
Step 3: Configure Security Settings
Improve your load balancer's security. Your load balancer is not using any secure listener.
If your traffic to the load balancer needs to be secure, use either the HTTPS or the SSL protocol for your front-end connection. You can go back to the first step to add/configure secure listeners under Basic Configuration section. You can also continue with current settings.
Cancel
Previous
Next: Configure Health Check
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences
37°C
Sunny
Search
ENG
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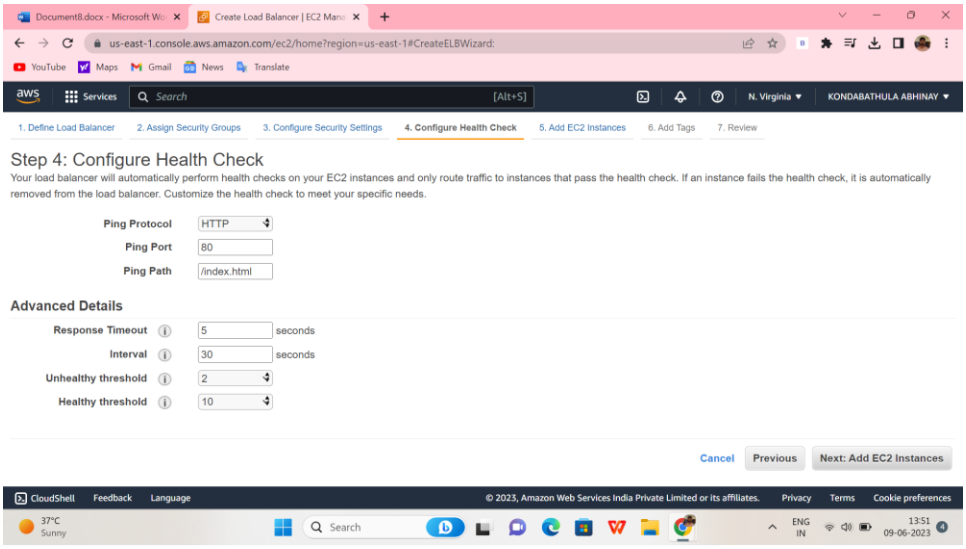
Click “next”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Create Load Balancer | EC2 Mana
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateELBWizard:
YouTube
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KONDABATHULA ABHINAY
1. Define Load Balancer
2. Assign Security Groups
3. Configure Security Settings
4. Configure Health Check
5. Add EC2 Instances
6. Add Tags
7. Review
Step 4: Configure Health Check
Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is automatically removed from the load balancer. Customize the health check to meet your specific needs.
Ping Protocol
HTTP
Ping Port
80
Ping Path
/index.html
Advanced Details
Response Timeout
5
seconds
Interval
30
seconds
Unhealthy threshold
2
Healthy threshold
10
Cancel
Previous
Next: Add EC2 Instances
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
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Cookie preferences
37°C
Sunny
Search
ENG
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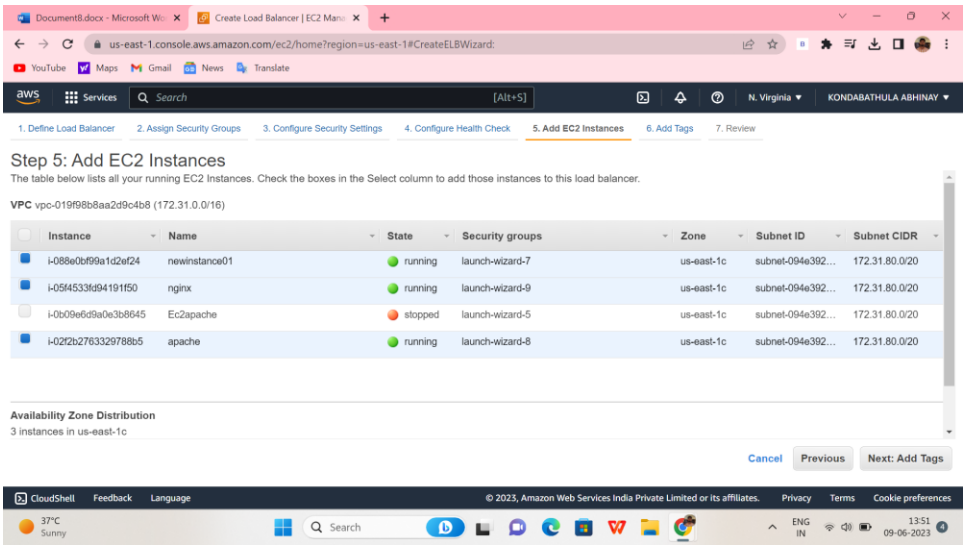
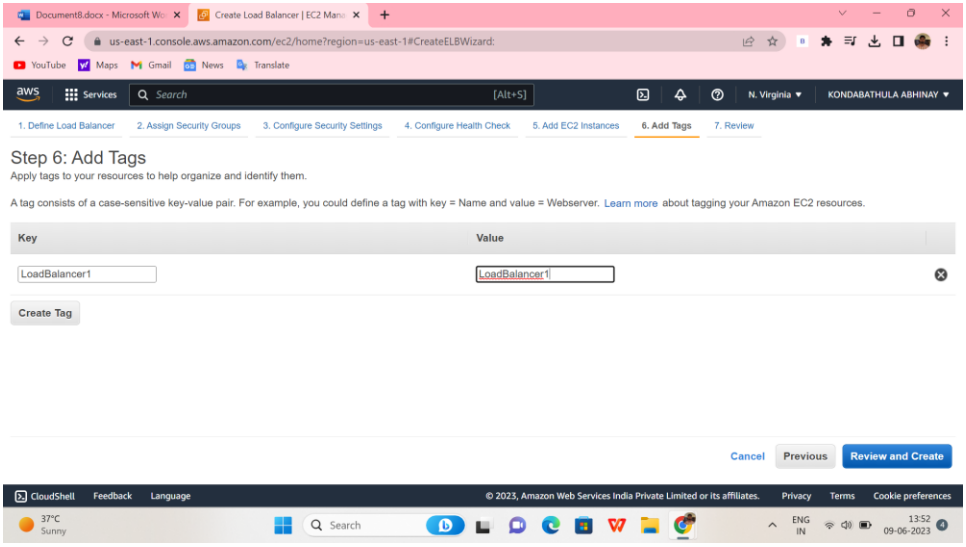
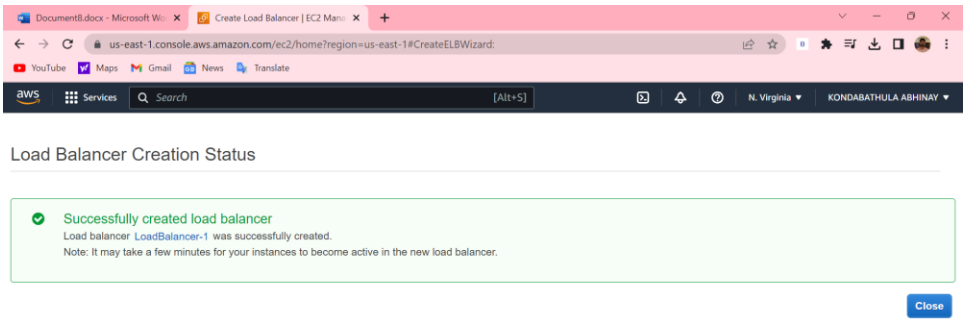
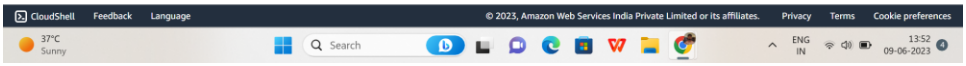


Step 11: create a tag and name it as “Load Balancer 1” and click on “Create”.

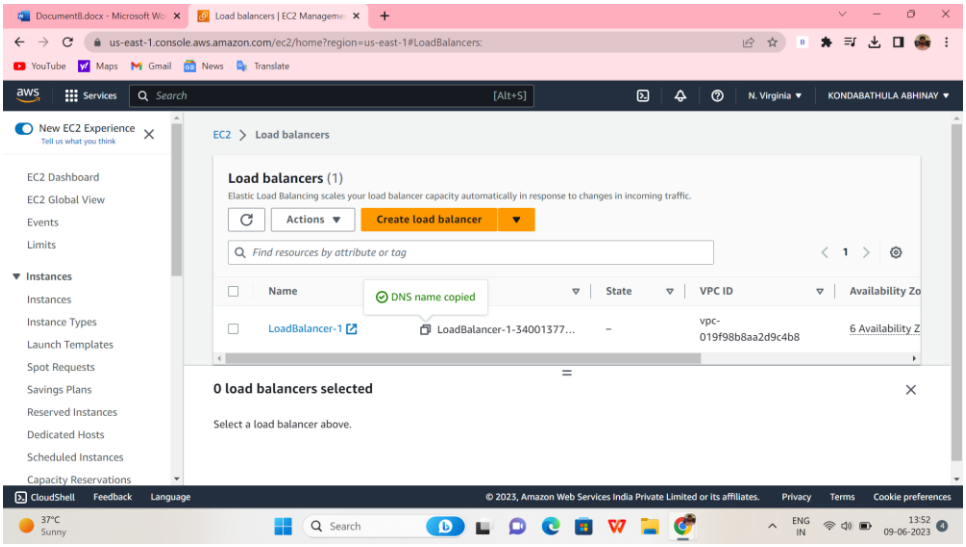


Step 12: you will find your load balancer created.





Now just copy the DNS and paste it in the chrome page .



Step 13: refresh the pages simultaneously so the load on the server and then it jumps to other server

---- you can find my Demonstration Video of Load Balancer.