

TASK 3(a)

Generate a Classical load Balancer with 3 different web servers:

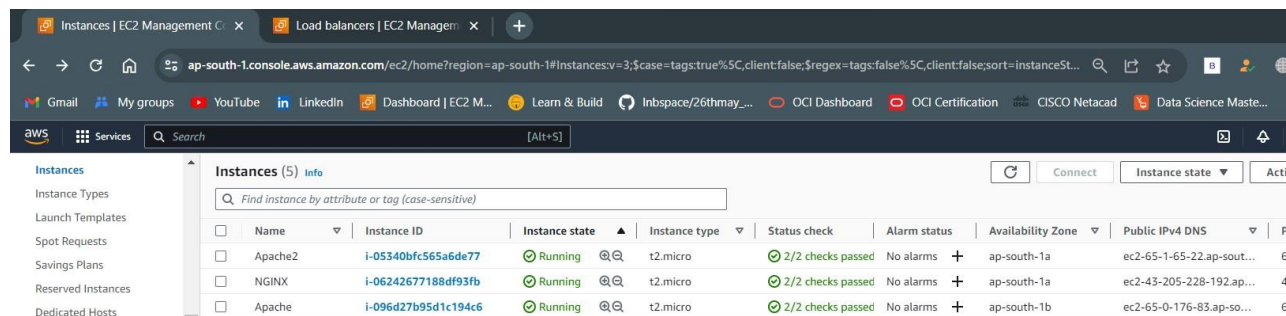
- 1. Apache**
- 2. Apache2**
- 3. Nginx**

Step 1: Launch an Ec2 instance and install Apache web server.

Step 2: Launch an Ec2 instance with Apache 2 web server.

Step 3: Launch an Ec2 instance and install NGINX webserver.

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

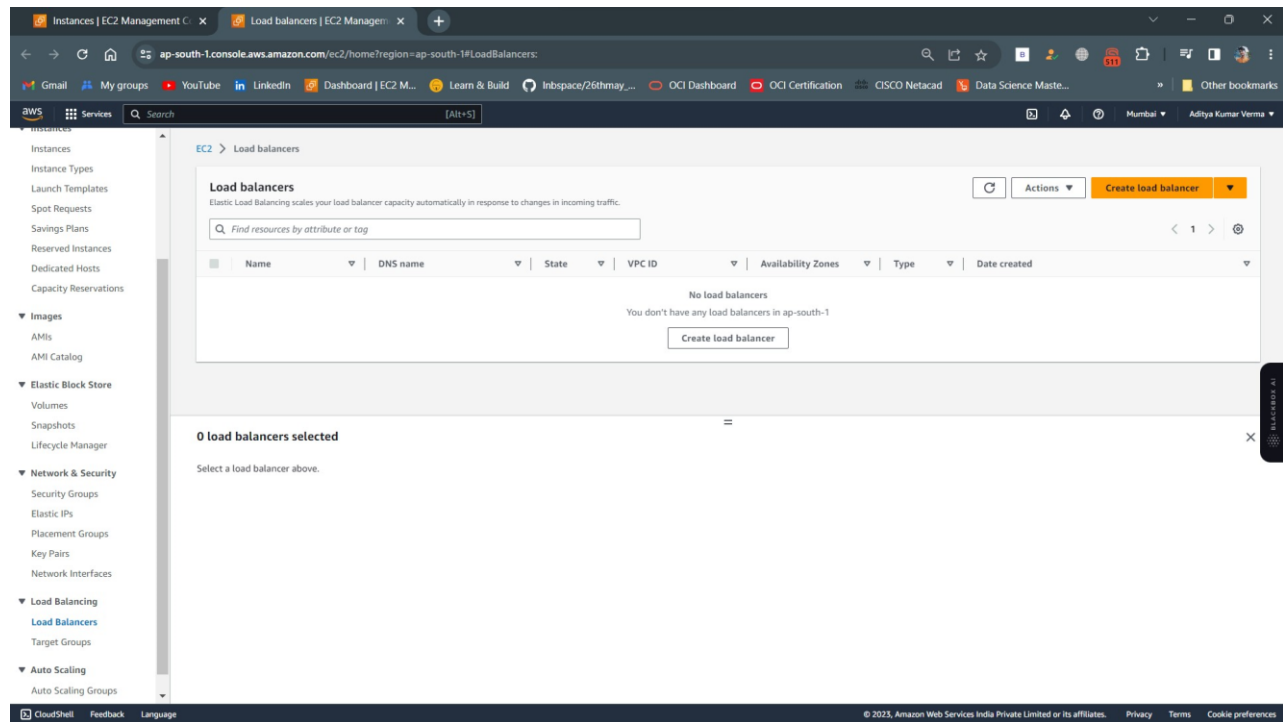


The screenshot shows the AWS Management Console with the 'Instances' page selected. The console displays a list of three EC2 instances, all in a 'Running' state. The instances are named 'Apache2', 'NGINX', and 'Apache'. Each instance is a 't2.micro' type and has passed its status checks. The 'Apache2' and 'NGINX' instances are in the 'ap-south-1a' availability zone, while the 'Apache' instance is in the 'ap-south-1b' availability zone. The console also shows a search bar and various action buttons like 'Connect' and 'Instance state'.

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	Apache2	i-05340bfc565a6de77	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-65-1-65-22.ap-sout...
<input type="checkbox"/>	NGINX	i-06242677188df93fb	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-43-205-228-192.ap...
<input type="checkbox"/>	Apache	i-096d27b95d1c194c6	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-0-176-83.ap-so...

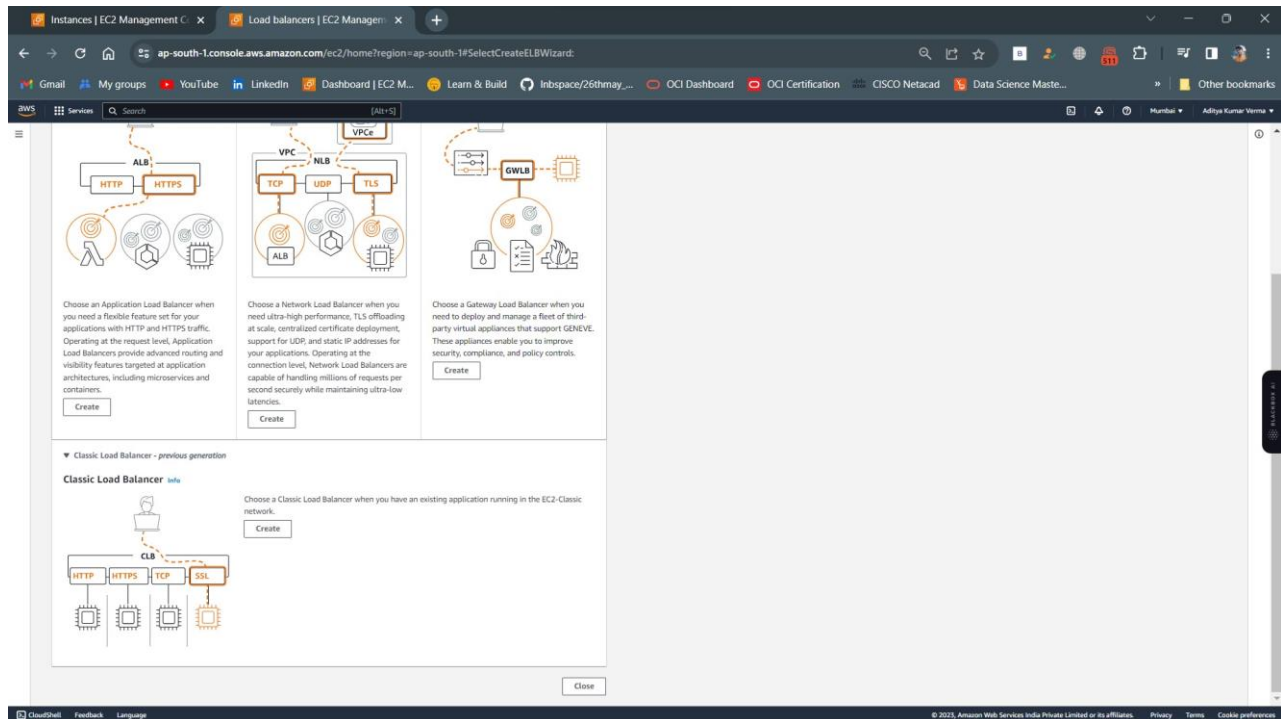
Step 4: Make sure that all the instances having the port 80 in inbound rules.

Step 5: Go to search bar and search for “Load Balancer” and select it.

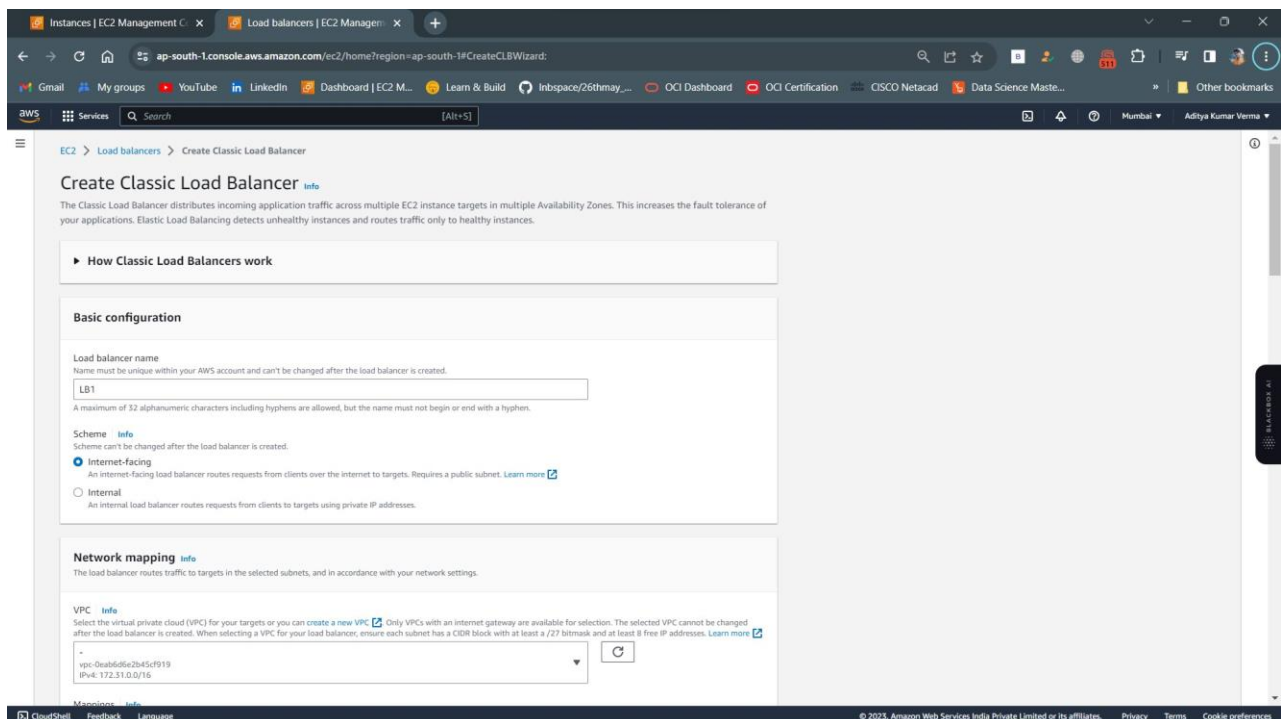


Step 6: Click on the “Create Load Balancer”

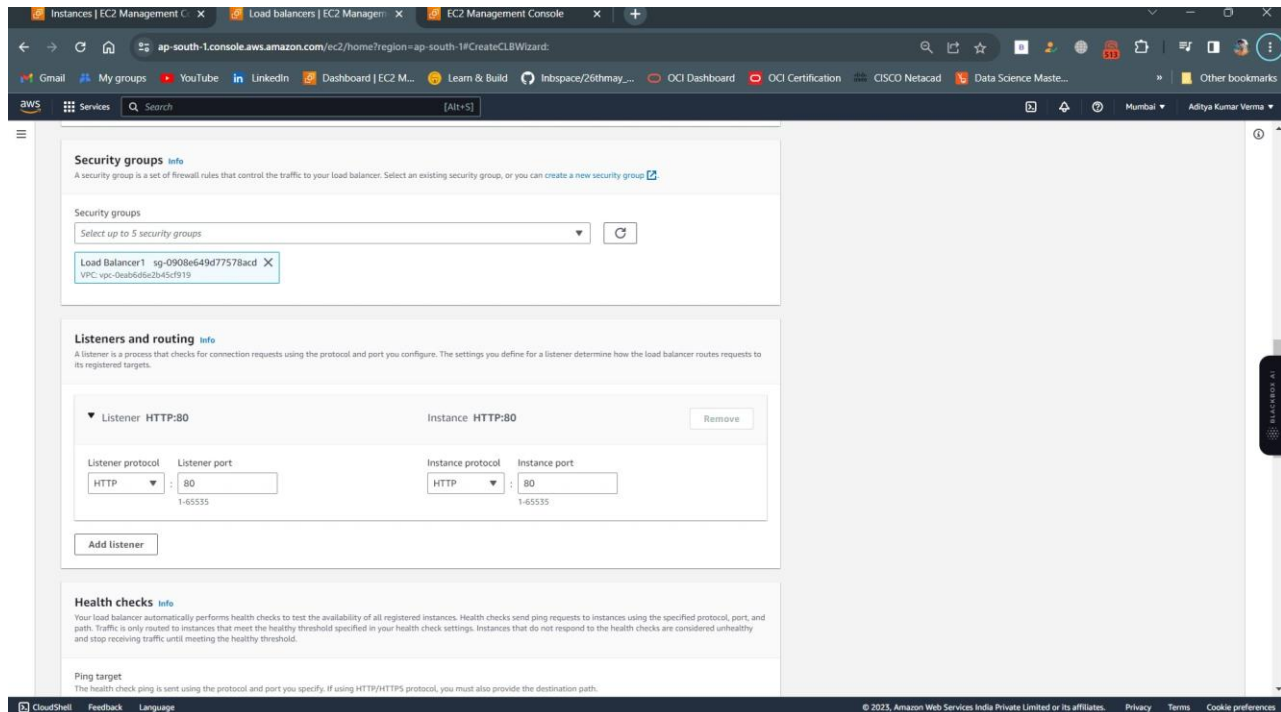
Step 7: Select the “Classic Load balancer” which is in the last of the list.



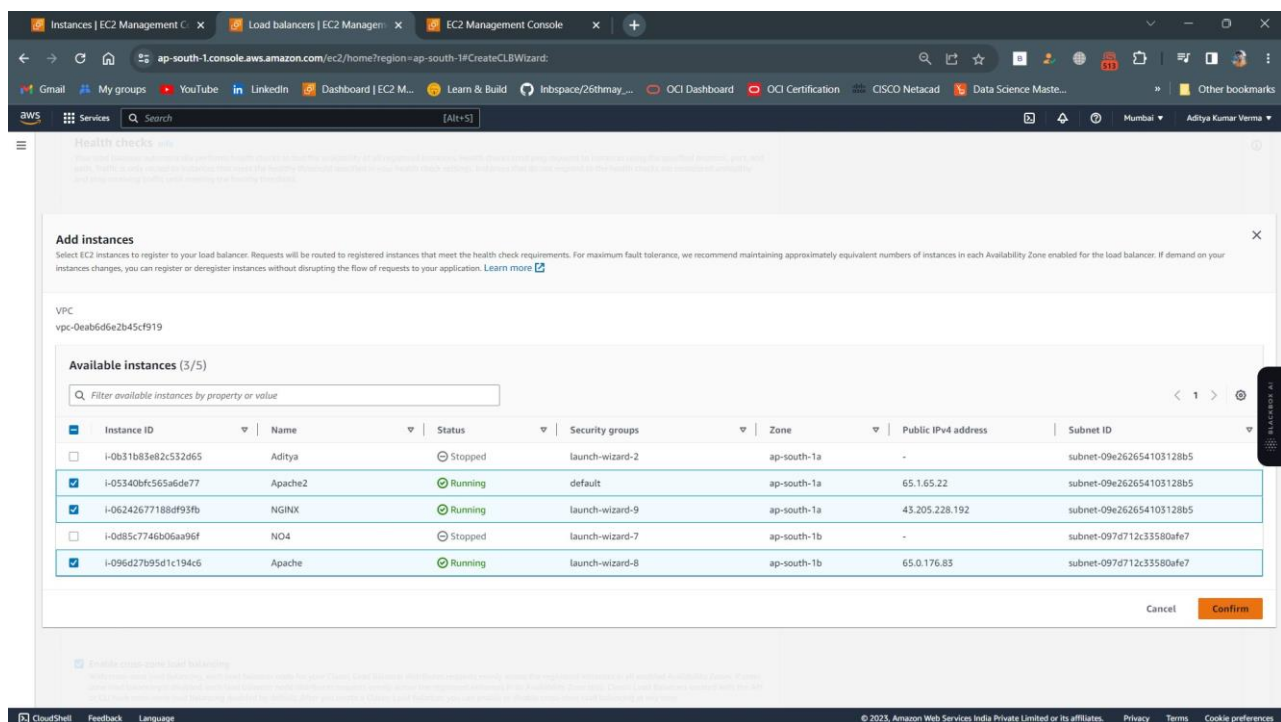
Step 8: Give a name to the group as “Load-balancer 1” and click next.

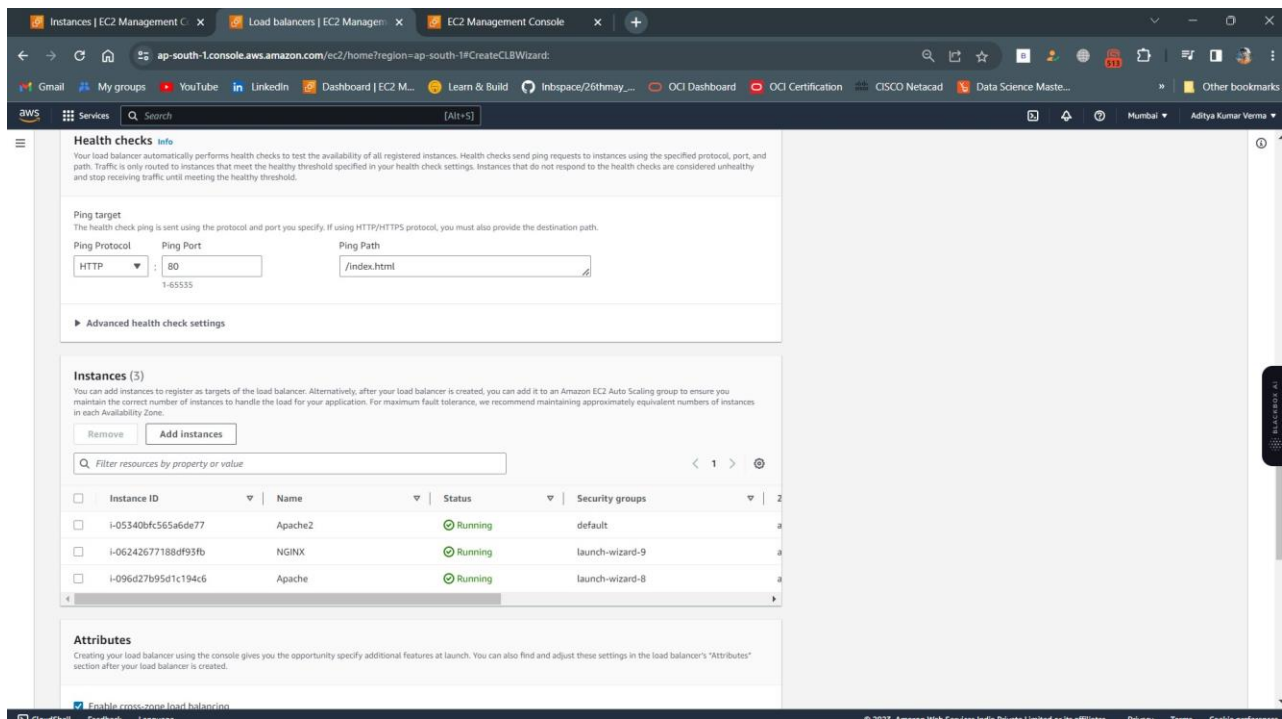


Step 9: Create a new security group and name it as “Load Balancer 1”.

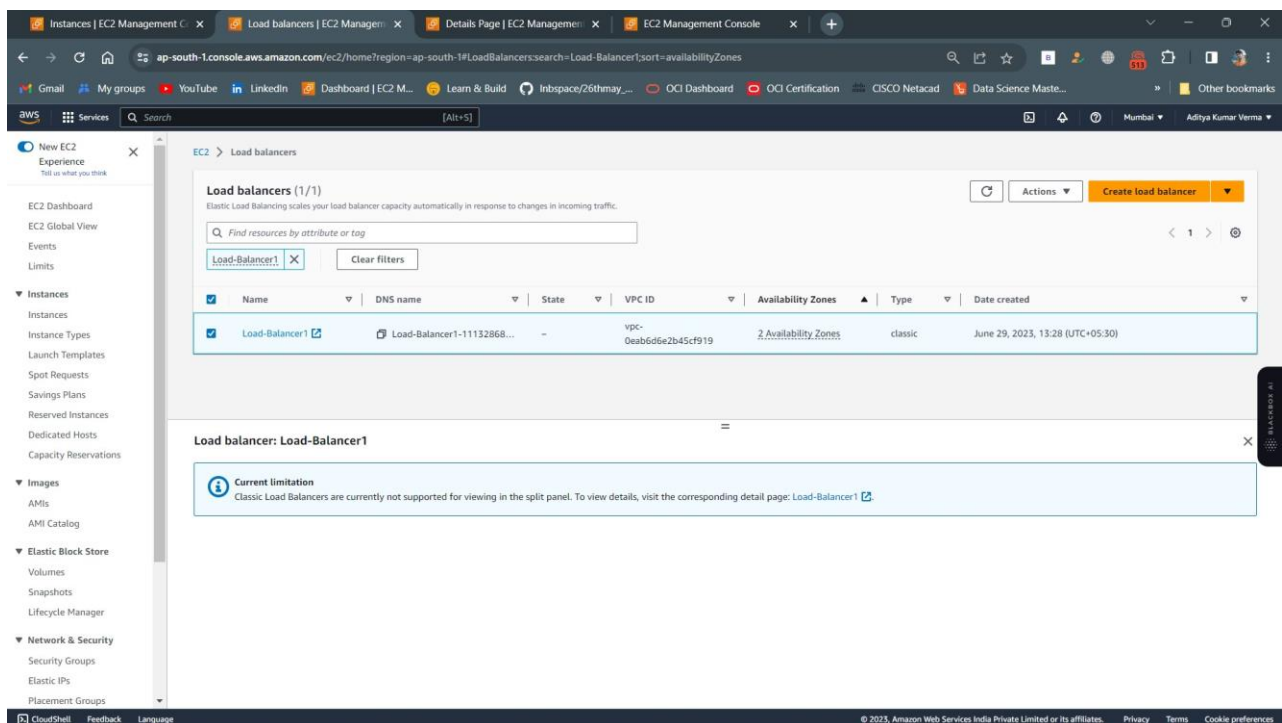


Step 10: Select the instances just created with 3 different web servers & Click “Create Load Balancer”.





Step 11: Load Balancer created successfully.



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

Step 12: Refresh the pages simultaneously so the load on the server and then it jumps to another server.