You work for XYZ Corporation that uses on premise solutions and a limited number of systems. With the increase in requests in their application, the load also increases. So, to handle the load the corporation has to buy more systems almost on a regular basis. Realizing the need to cut down the expenses on systems, they decided to move their infrastructure to AWS.

Tasks To Be Performed:

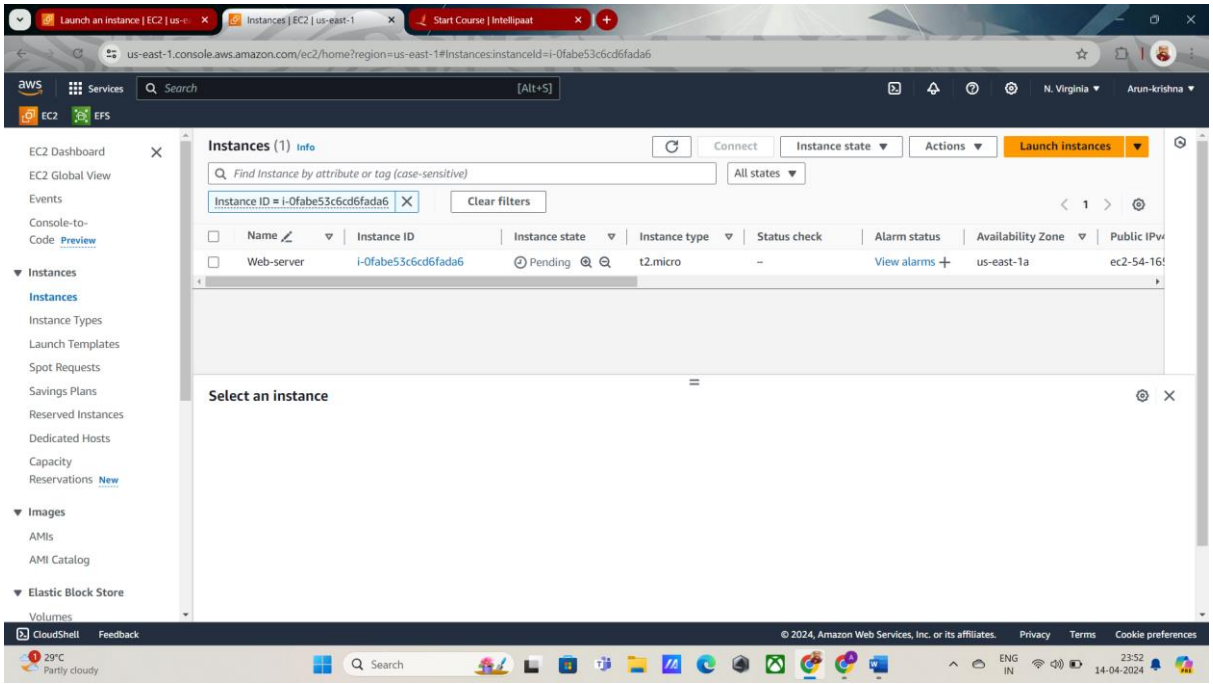
1. Manage the scaling requirements of the company by: a. Deploying multiple compute resources on the cloud as soon as the load increases and the CPU utilization exceeds 80%

b. Removing the resources when the CPU utilization goes under 60%

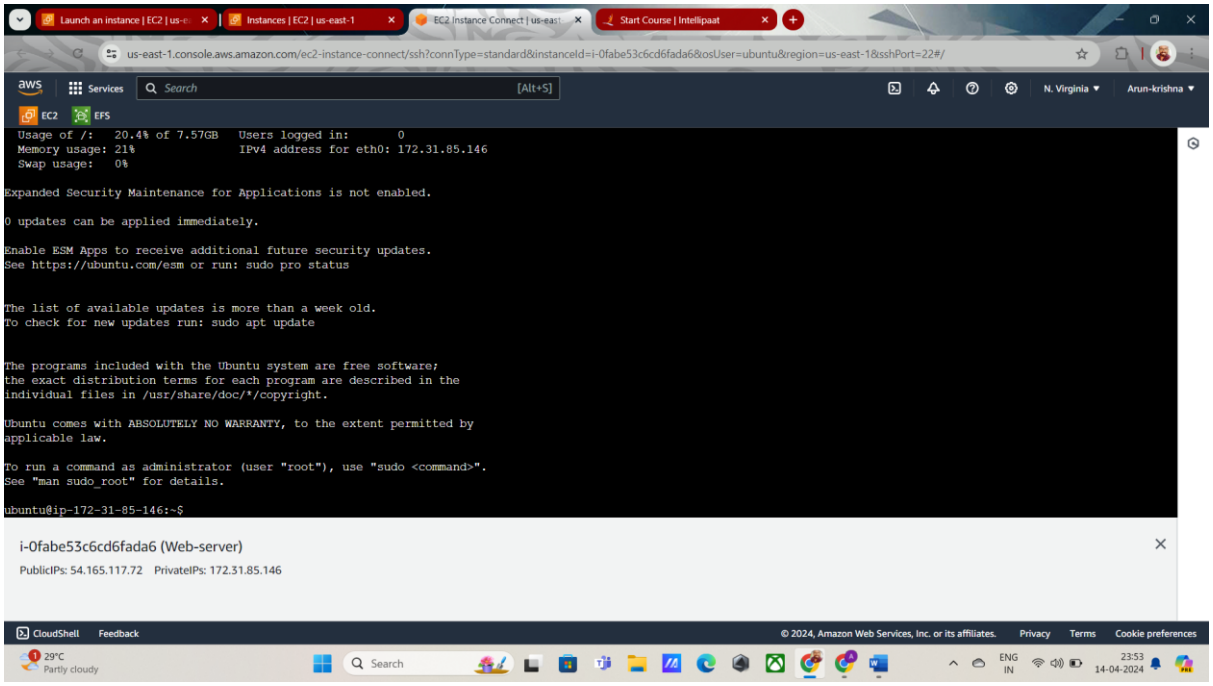
2. Create a load balancer to distribute the load between compute resources.

3. Route the traffic to the company's domain.

need to set the instance:



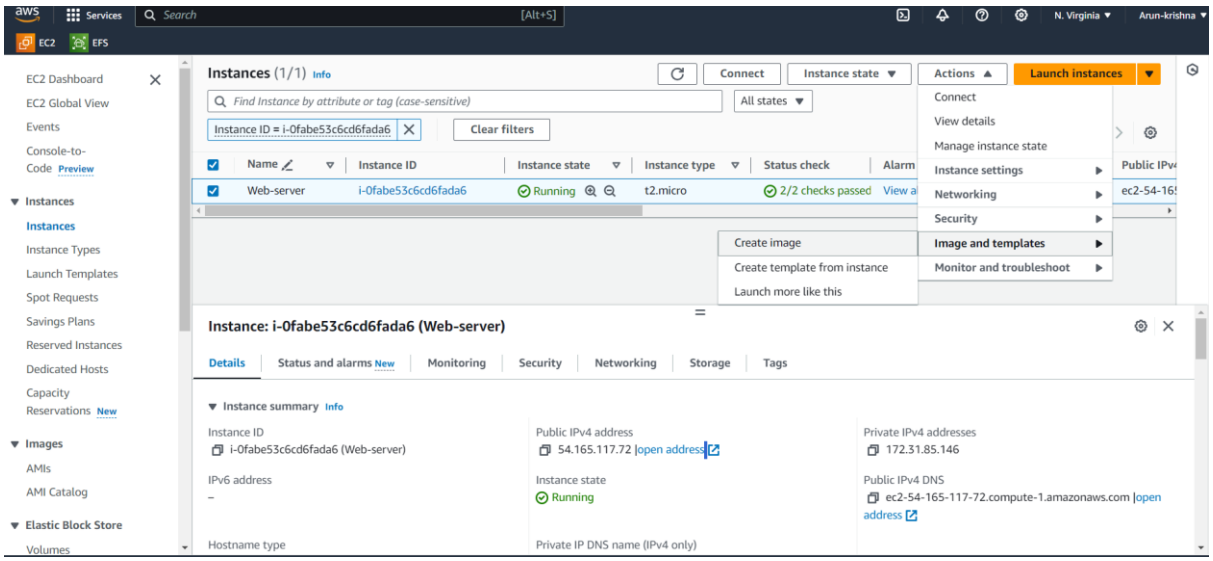
Connect the instance:



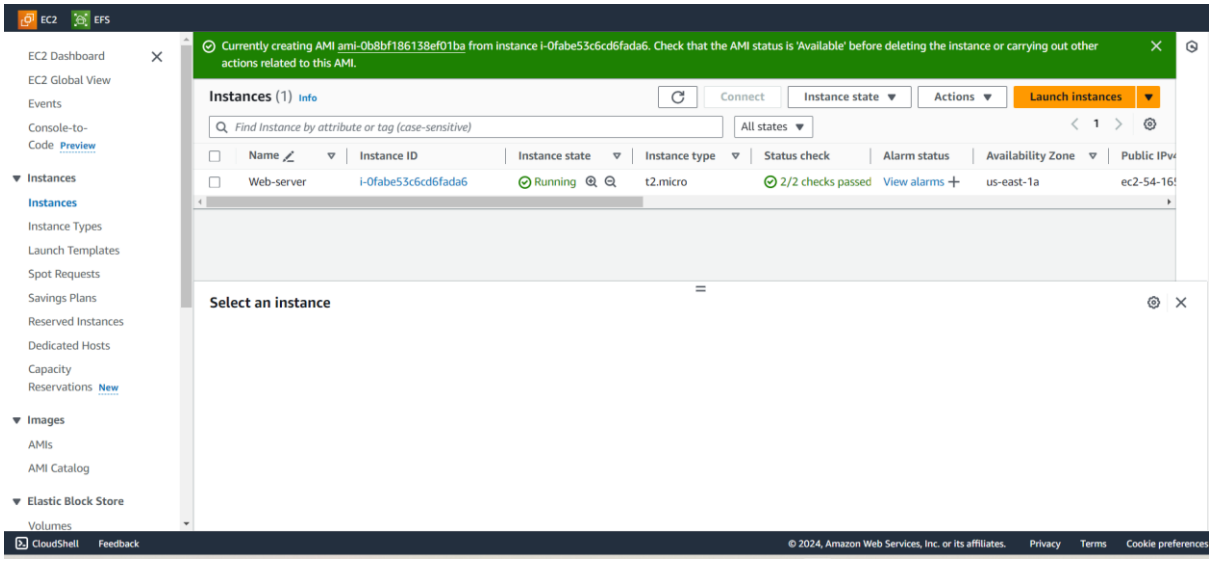
use the command the up the Apache server

.Update $ sudo apt-get update.

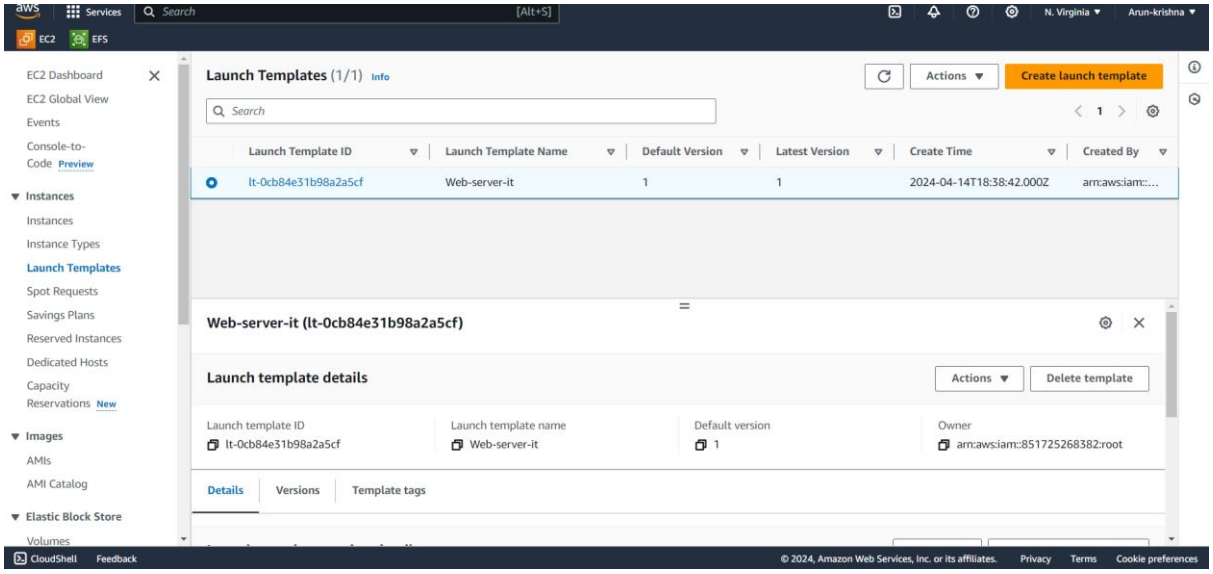
Install Apache web $ sudo apt-get install apache2 -y
To check open new tab copy and paste the public IP to browser APACHE 2 WEB



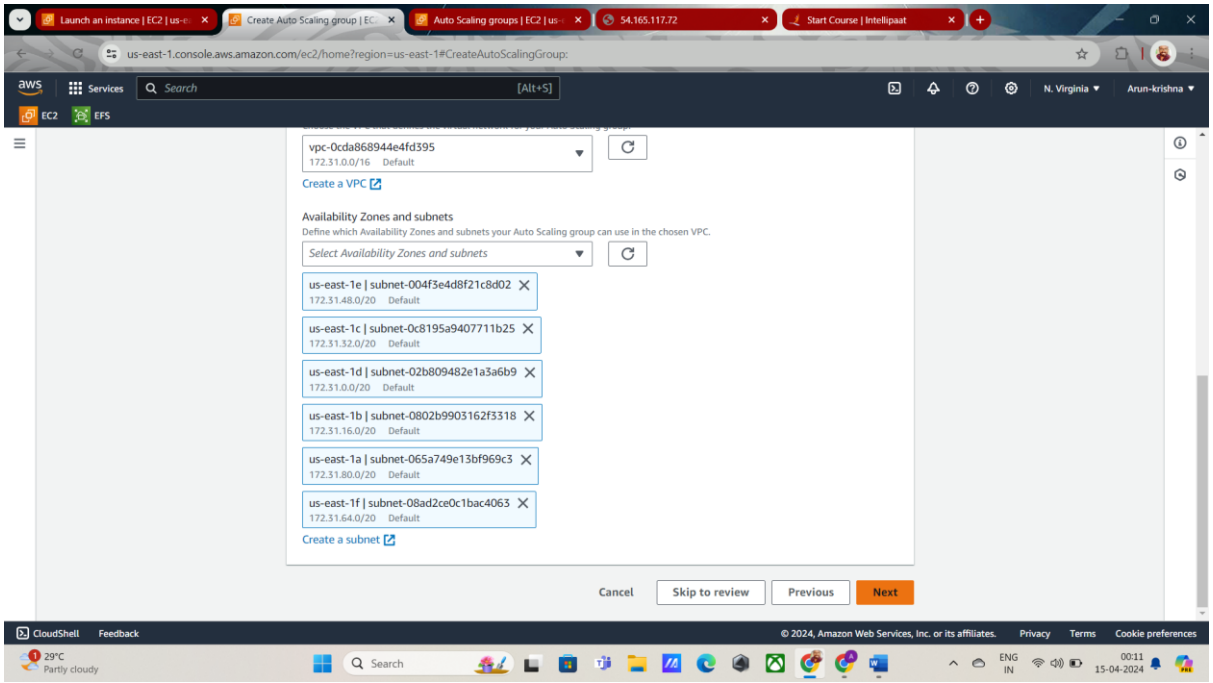
Check in Image tab of AMIs with a name of web-server-image

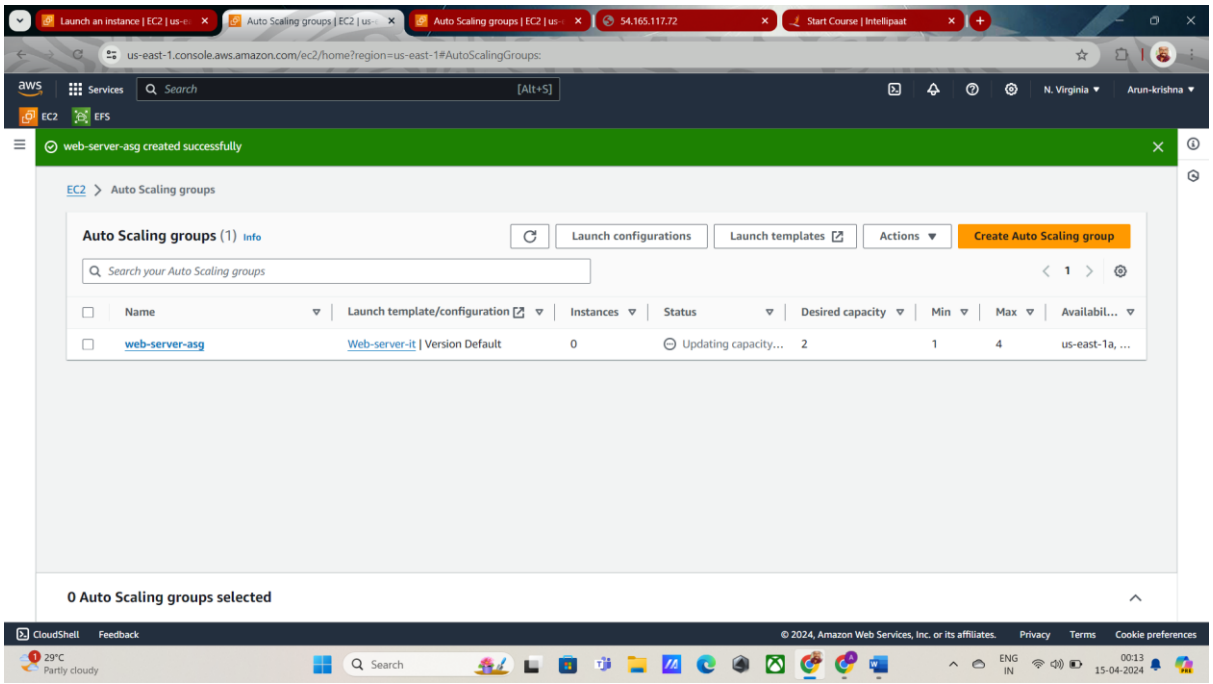


ami created



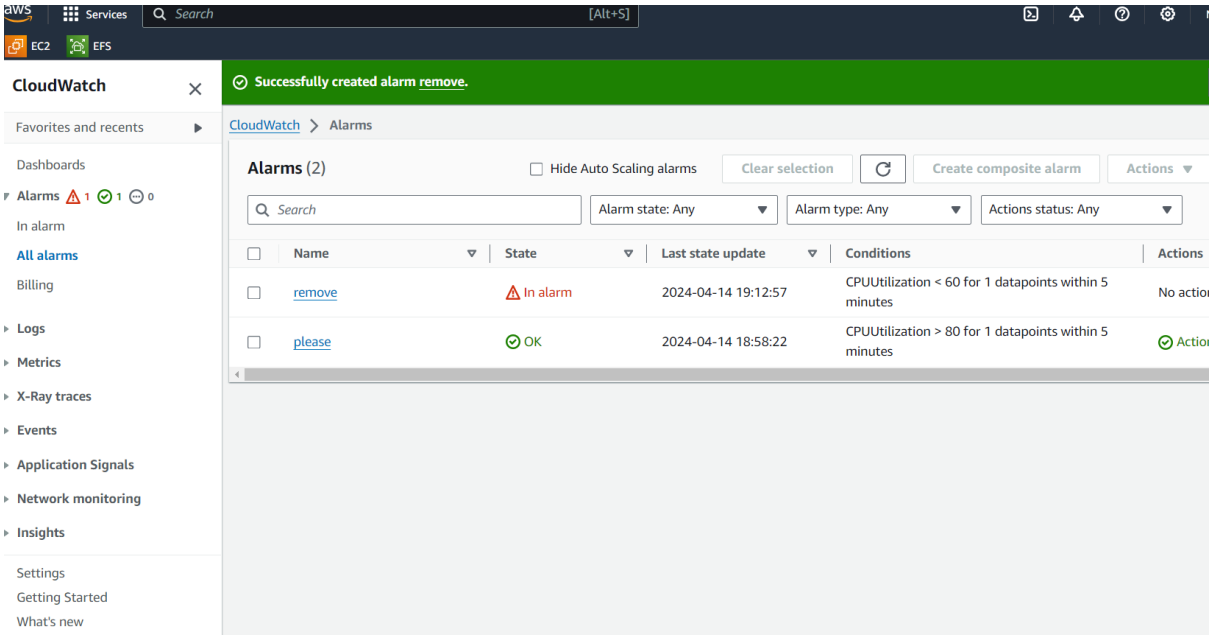
Create a auto scaling group

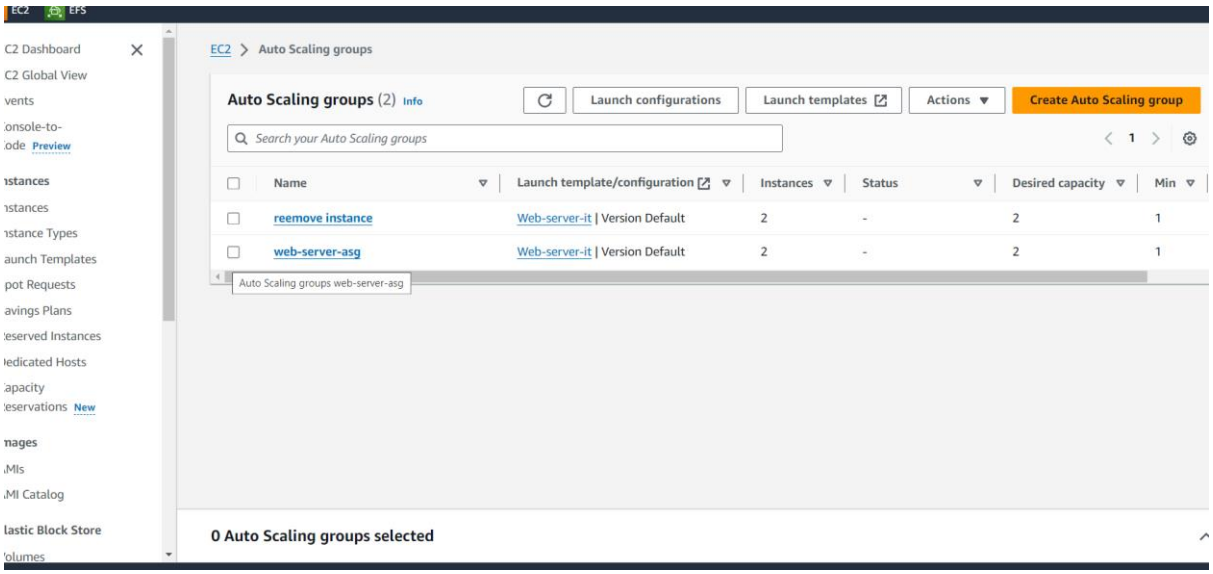

Launch an instance | EC2 | us-e
Create Auto Scaling group | EC
Auto Scaling groups | EC2 | us-
54.165.117.72
Start Course | Intellipaat
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Services
Search
[Alt+S]
N. Virginia
Arun-krishna
EC2
EFS
vpc-0cda868944e4fd395
172.31.0.0/16 Default
Create a VPC
Availability Zones and subnets
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.
Select Availability Zones and subnets
us-east-1e | subnet-004f3e4d8f21c8d02
172.31.48.0/20 Default
us-east-1c | subnet-0c8195a9407711b25
172.31.32.0/20 Default
us-east-1d | subnet-02b809482e1a3a6b9
172.31.0.0/20 Default
us-east-1b | subnet-0802b9903162f3318
172.31.16.0/20 Default
us-east-1a | subnet-065a749e13bf969c3
172.31.80.0/20 Default
us-east-1f | subnet-08ad2ce0c1bac4063
172.31.64.0/20 Default
Create a subnet
Cancel
Skip to review
Previous
Next
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
29°C
Partly cloudy
Search
ENG
IN
00:11
15-04-2024

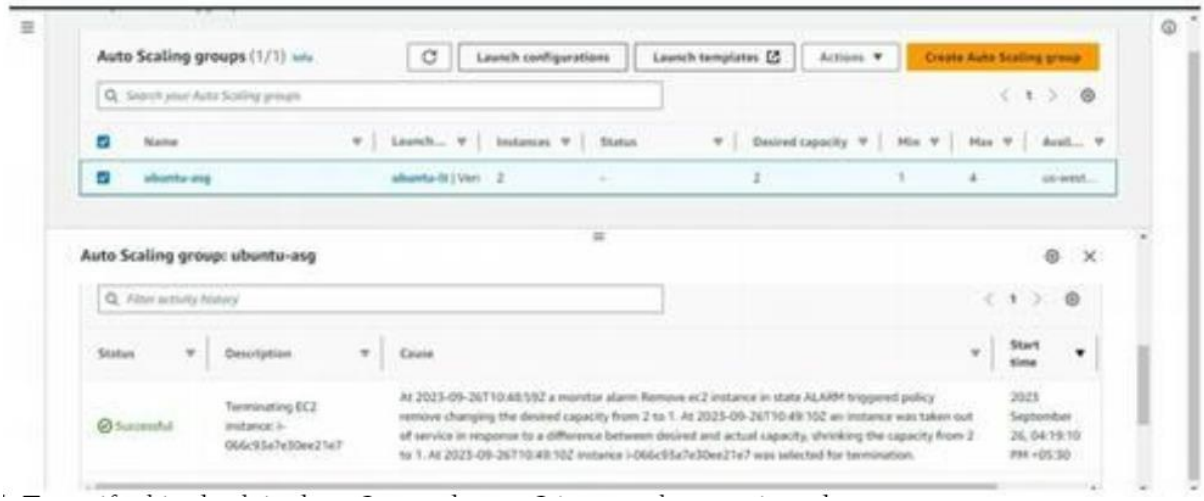

Launch an instance | EC2 | us-e
Auto Scaling groups | EC2 | us-
Auto Scaling groups | EC2 | us-
54.165.117.72
Start Course | Intellipaat
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:
Services
Search
[Alt+S]
N. Virginia
Arun-krishna
EC2
EFS
web-server-asg created successfully
EC2 > Auto Scaling groups
Auto Scaling groups (1) Info
Launch configurations
Launch templates
Actions
Create Auto Scaling group
Search your Auto Scaling groups
1
Name
Launch template/configuration
Instances
Status
Desired capacity
Min
Max
Availabil...
web-server-asg
Web-server-it | Version Default
0
Updating capacity...
2
1
4
us-east-1a, ...
0 Auto Scaling groups selected
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
29°C
Partly cloudy
Search
ENG
IN
00:13
15-04-2024

CPUUtilization > 80 for 1 datapoints within 5 minutes

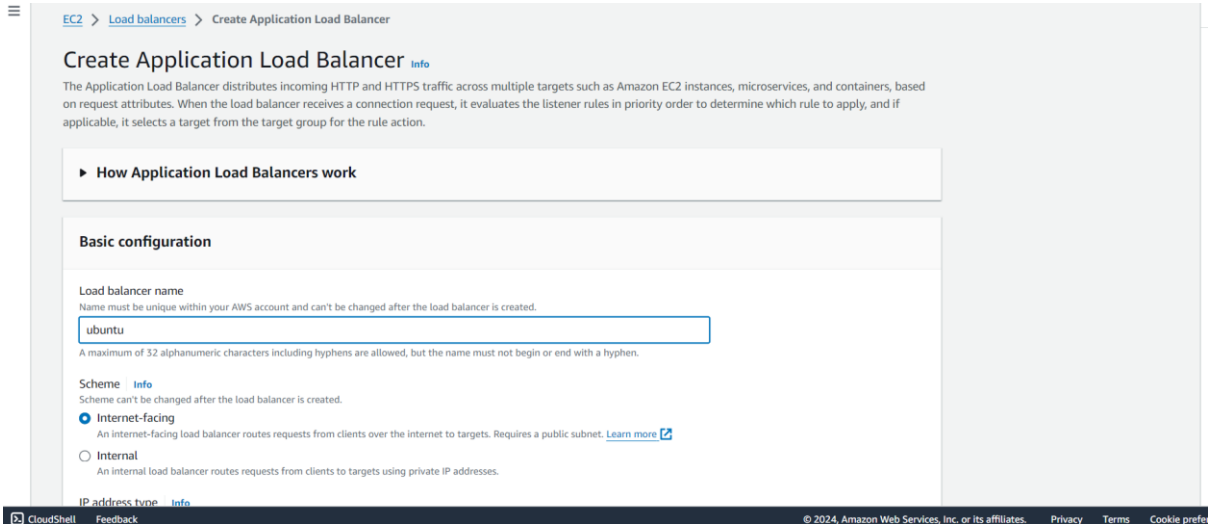
CPUUtilization < 60 for 1 datapoints within 5 minutes



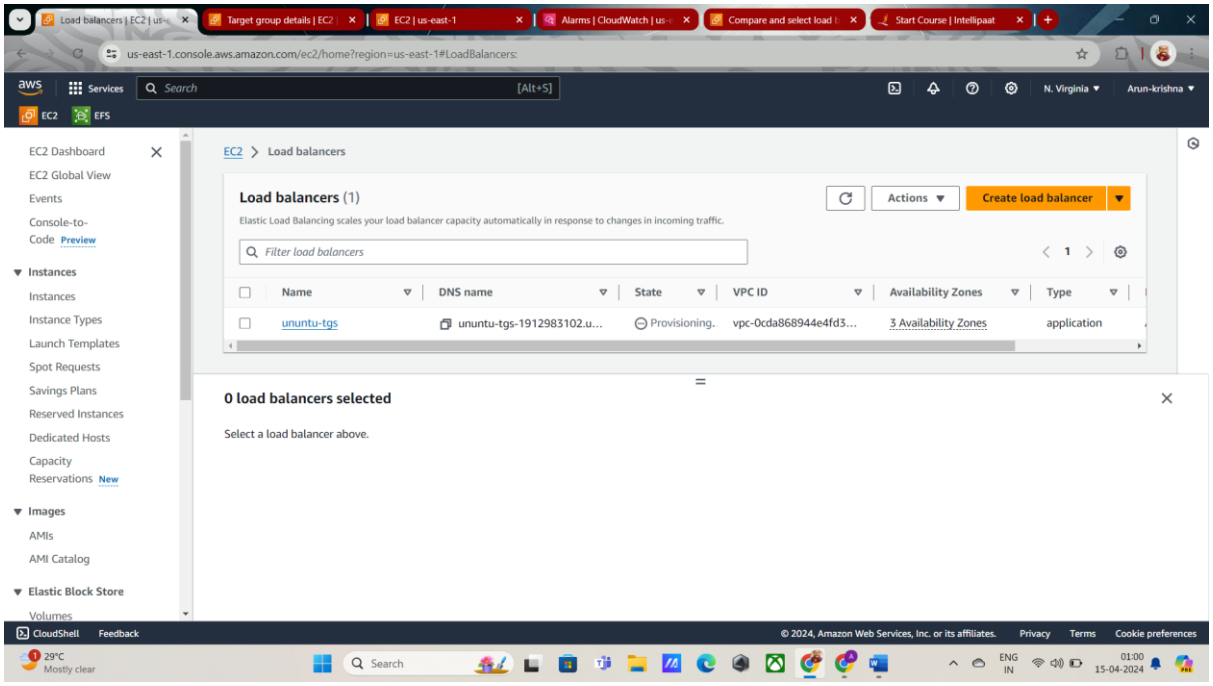




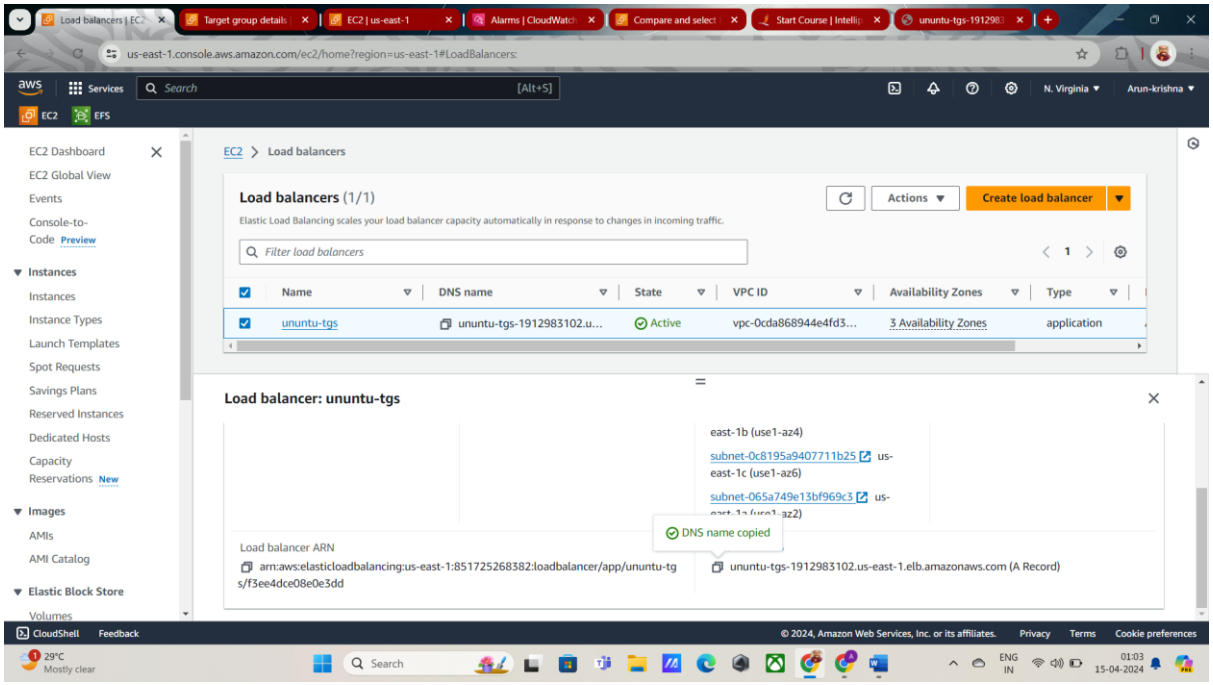
a.Create Load balancer



created load balancer:



Copy and paste DNS of load balancer on the new browser and check apache2 web for two instances.




THIS IS THE ASSIGNMENT OF LOAD BALANCER AND AUTO-SCALING