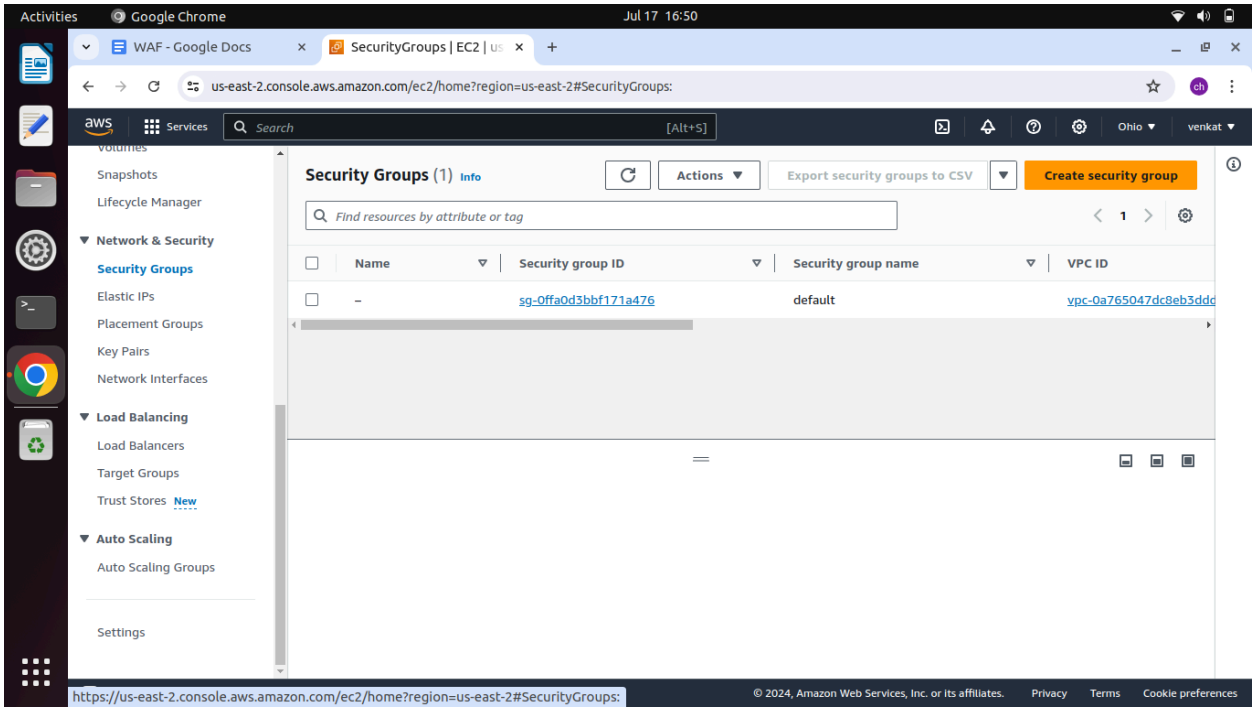
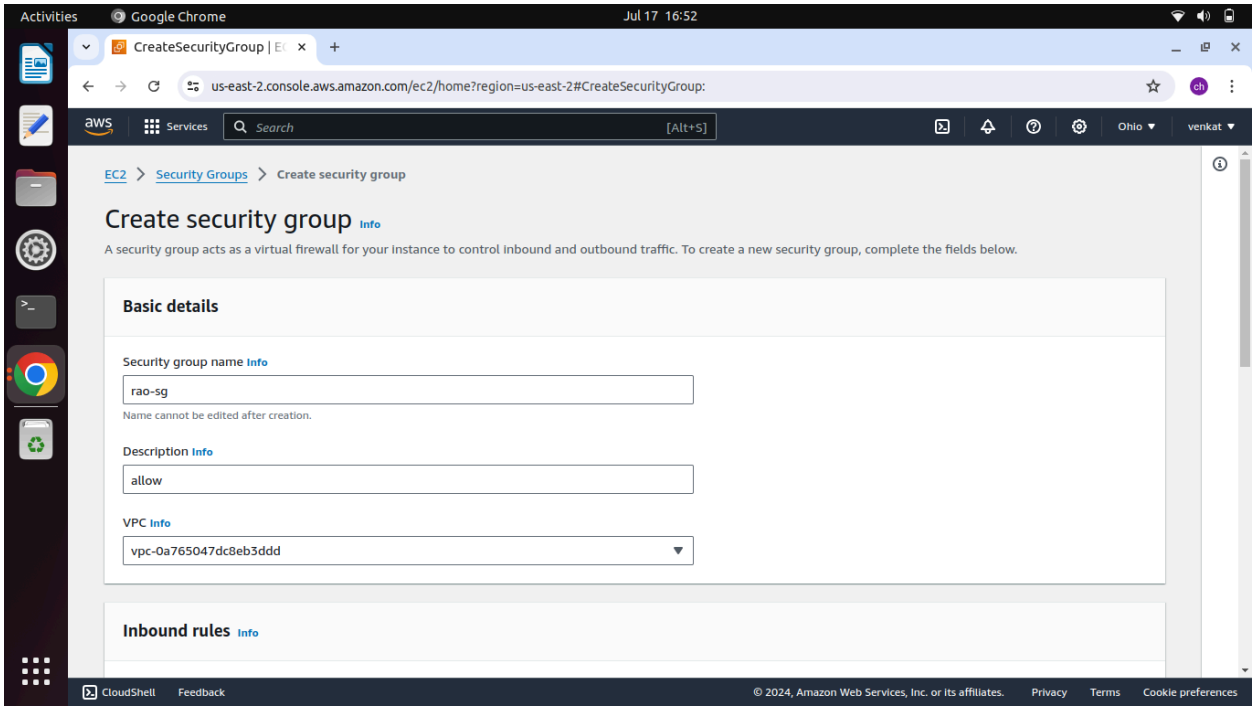
WAF

⇒ region single region use all → sg→ ec2 server 2→ target group→ load balancer → waf → ip set→ rule group → wab acl→ load balancer dns → google

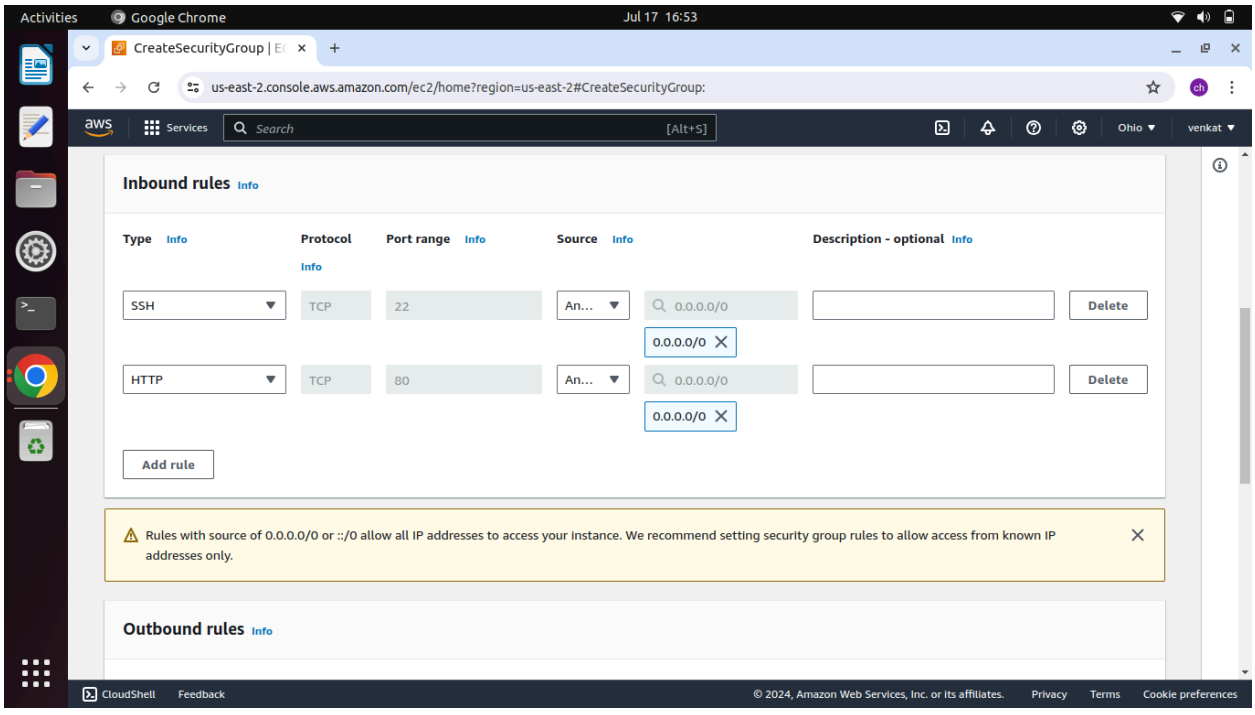
1) Region = ohio
2) Go to security group click create security group



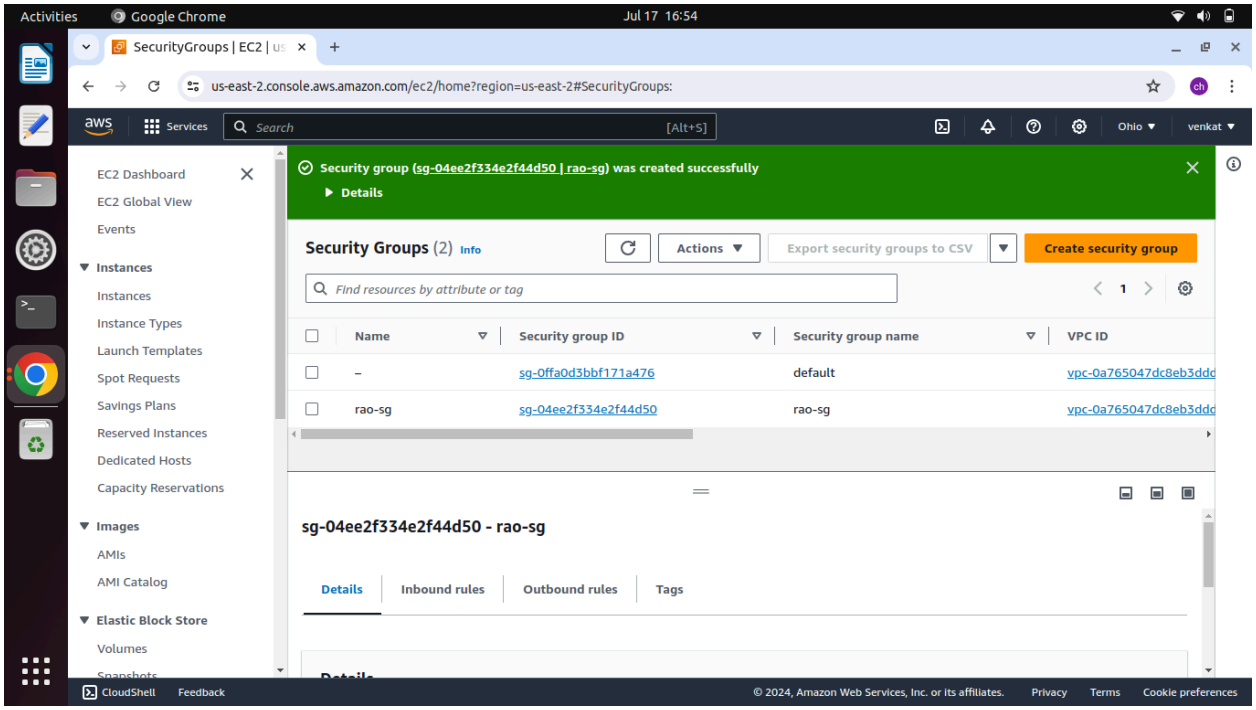
3) name= rao-sg and vpc=default vpc



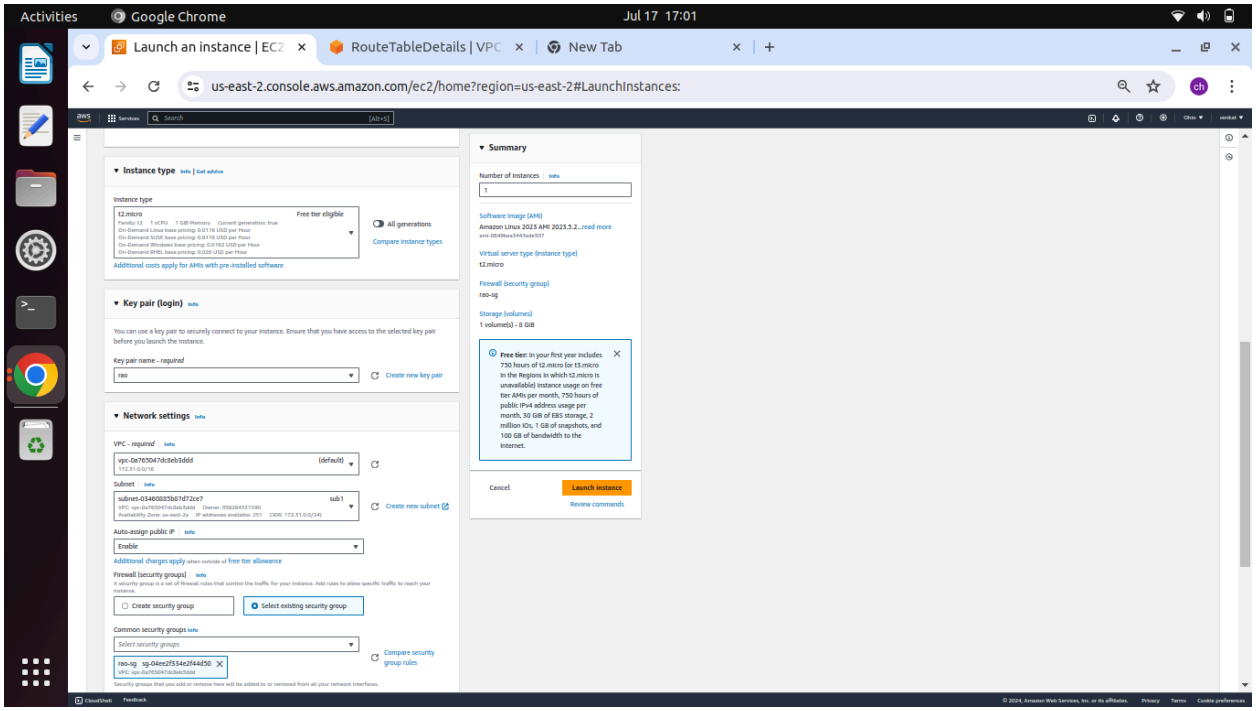
4) Inbound rule add rule =ssh and http



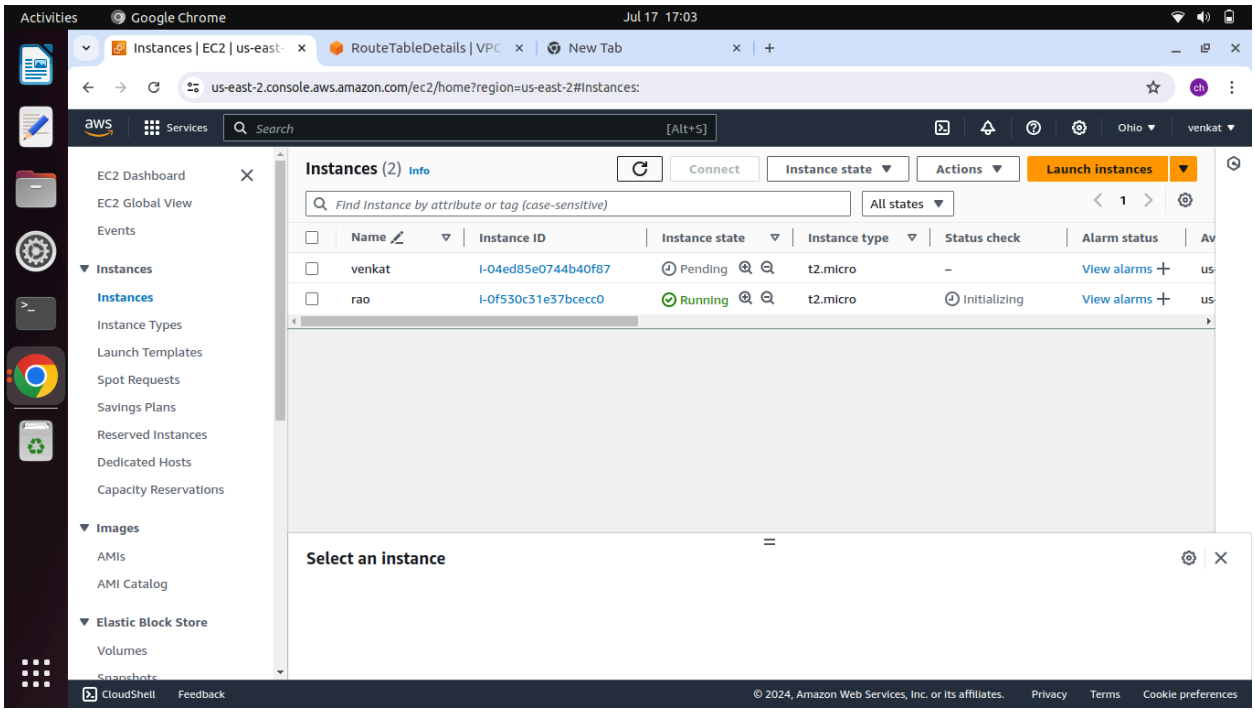
5) Click Create security group



6) Go to ec2 select Instances click launch instance
7) name= rao
8) Keypair =rao
9) Select vpc and subnet click assign ip= enable and sg= rao-sg
10) Click launch instance



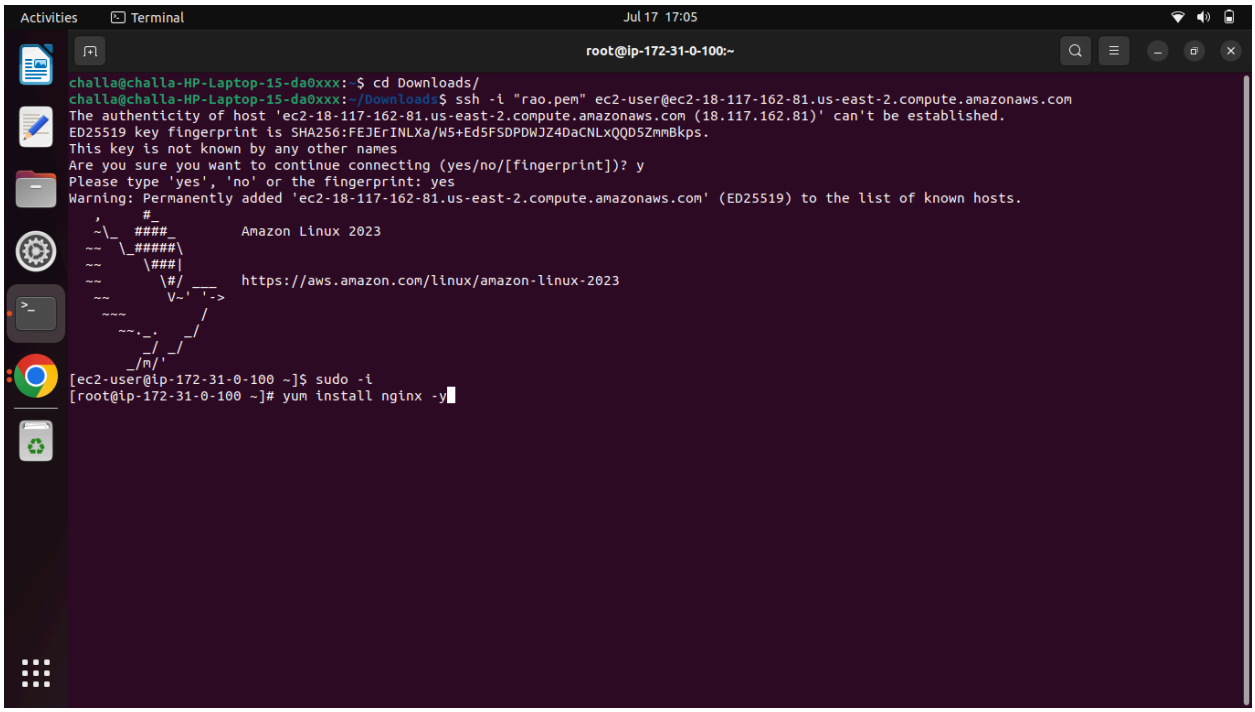
11) Same as create venkat server



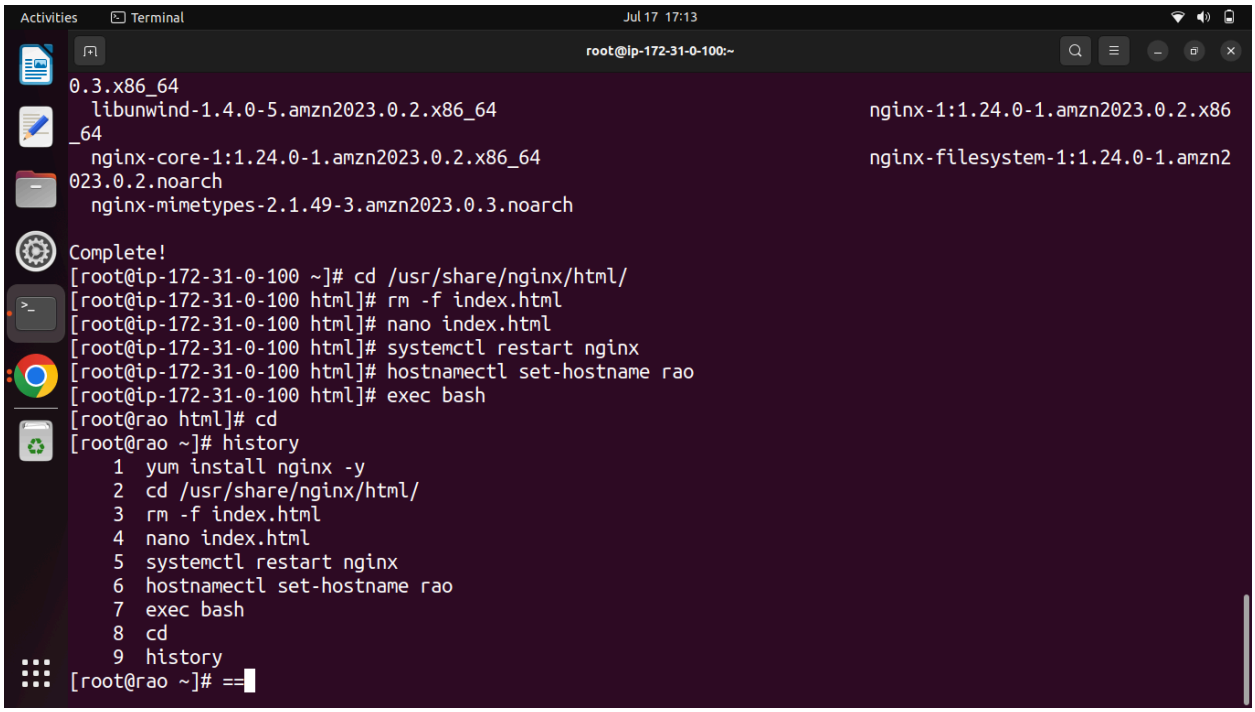
12) Connect rao server and install nginx

13) $ sudo -i

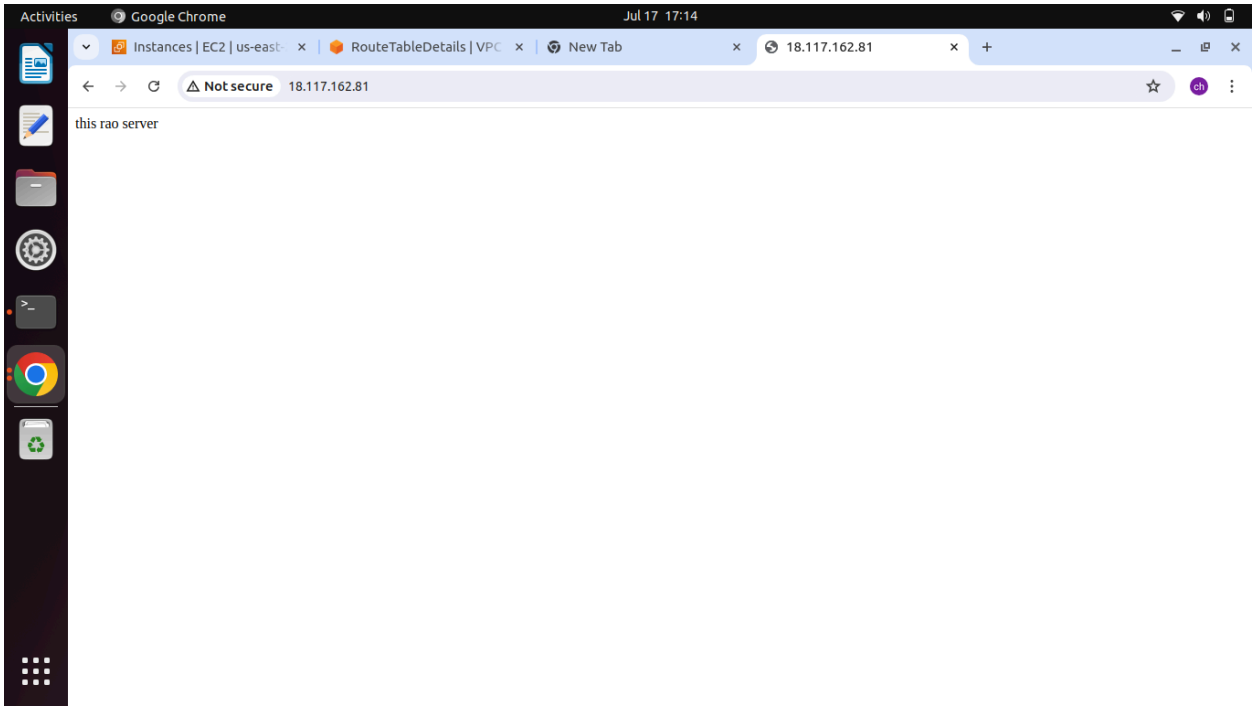
14) # yum install nginx -y



15) Go to /usr/share/nginx/html/ path and delete index.html file crete new index.html file using vi or nano write file this is rao server save and exit and restart the nginx server using cmd # systemctl restart nginx
16) # cd /usr/share/nginx/html/
17) # rm -f index.html
18) # nano index.html
19) # systemctl restart nginx
20) # hostnamectl set-hostname rao
21) # exec bash
22) # cd

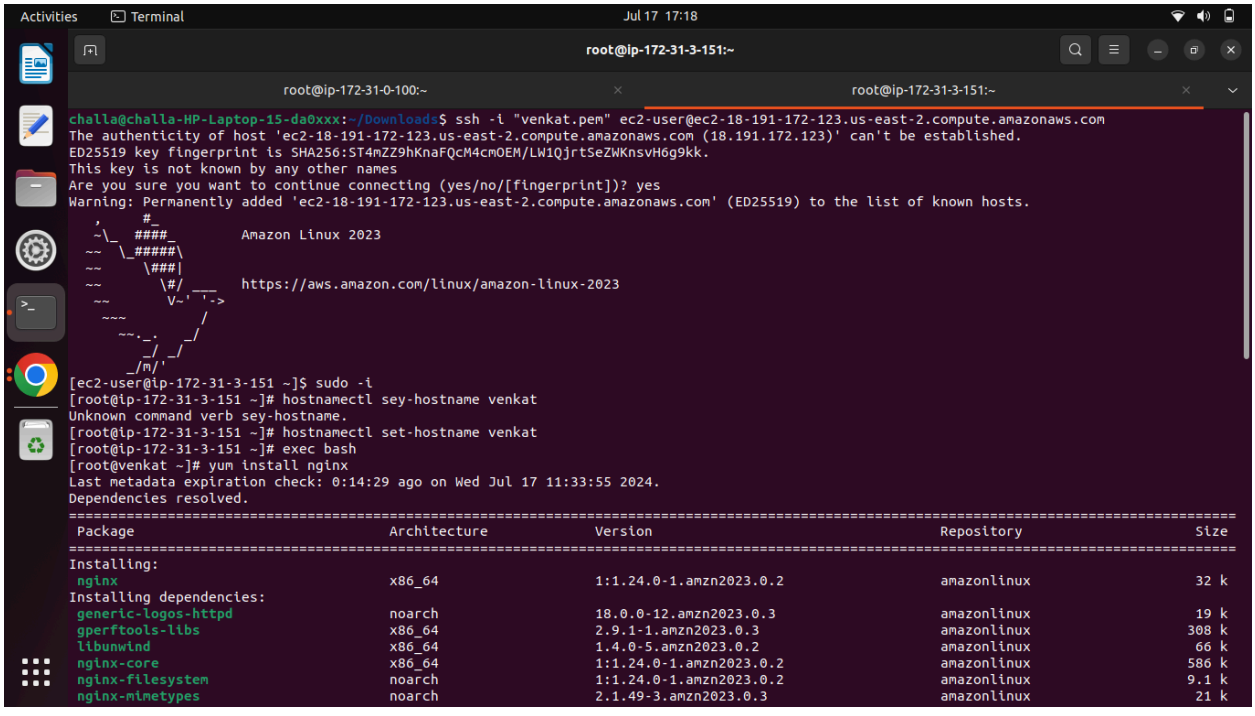


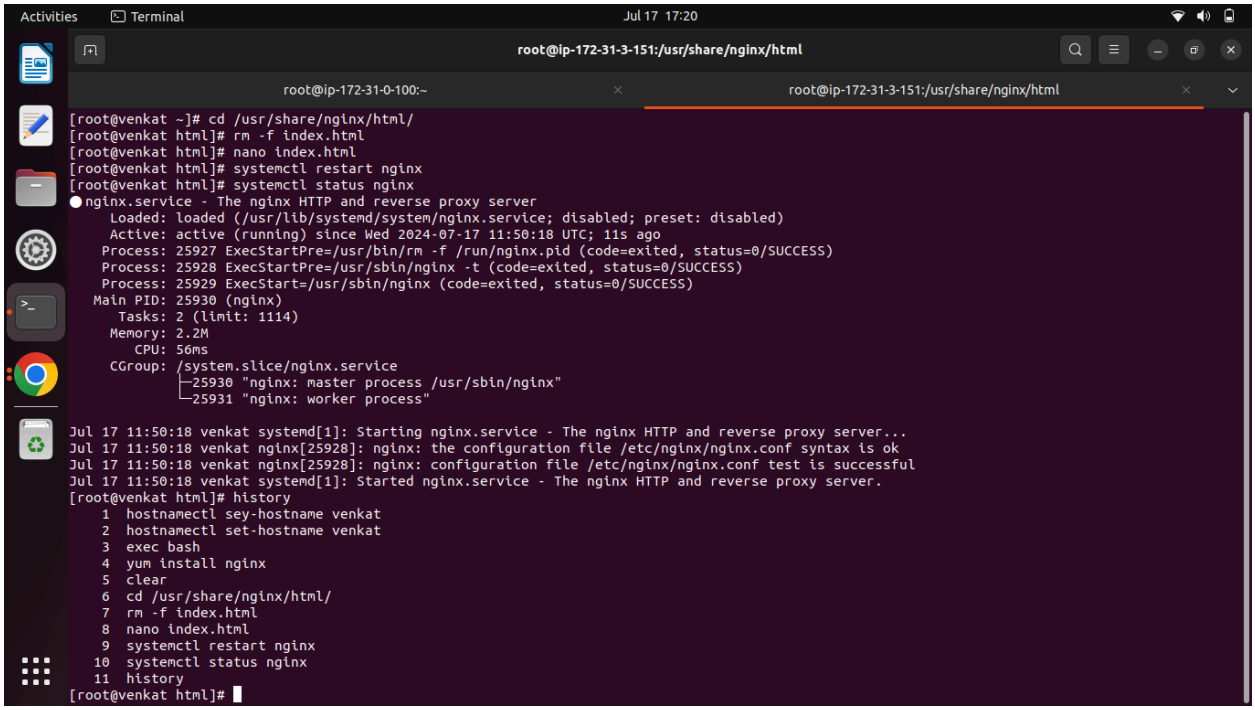
23) Take rao sever public ip and paste in google you get this is rao sever

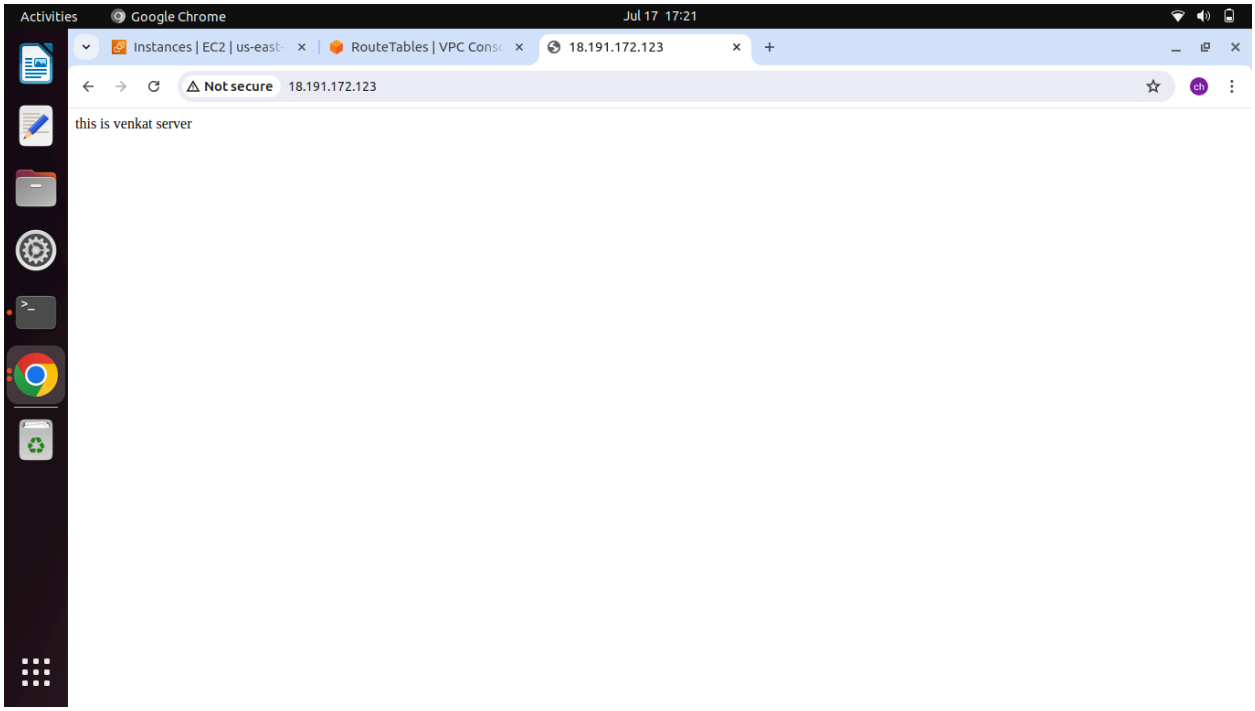


24) Now connect venkat server install nginx and set html file this is venkat server take venkat sever public ip paste in google you get this is venkat server

25)

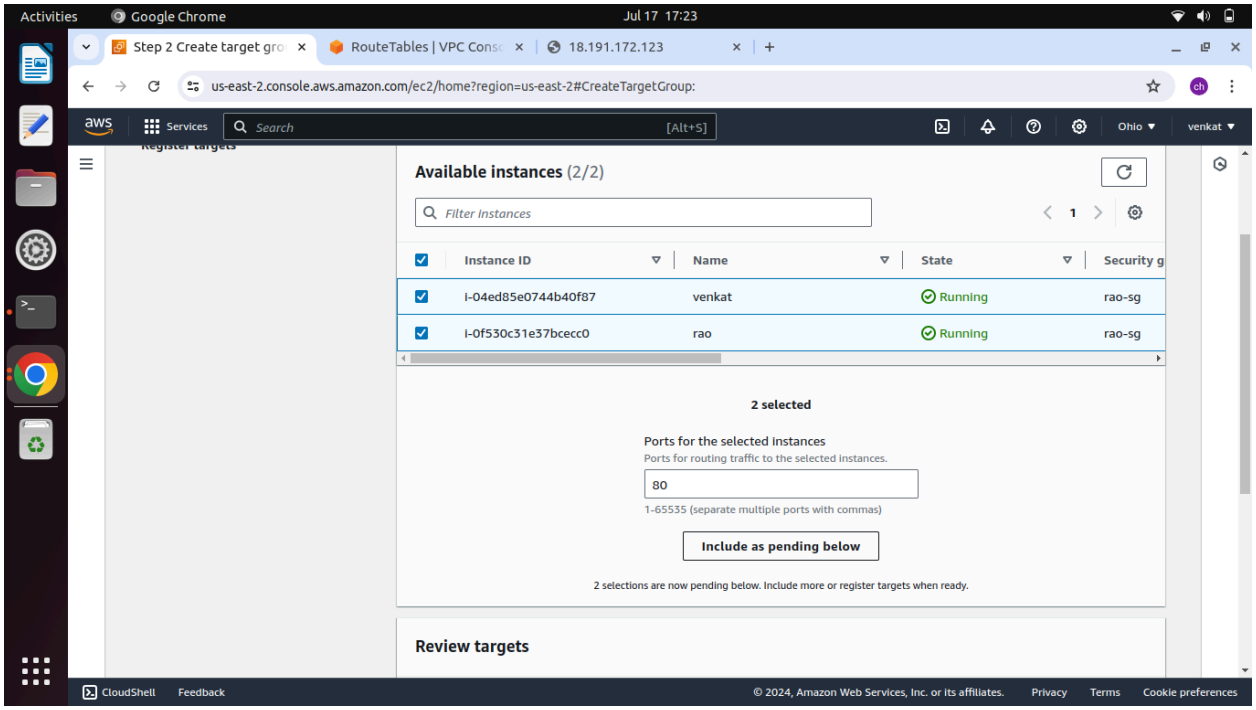


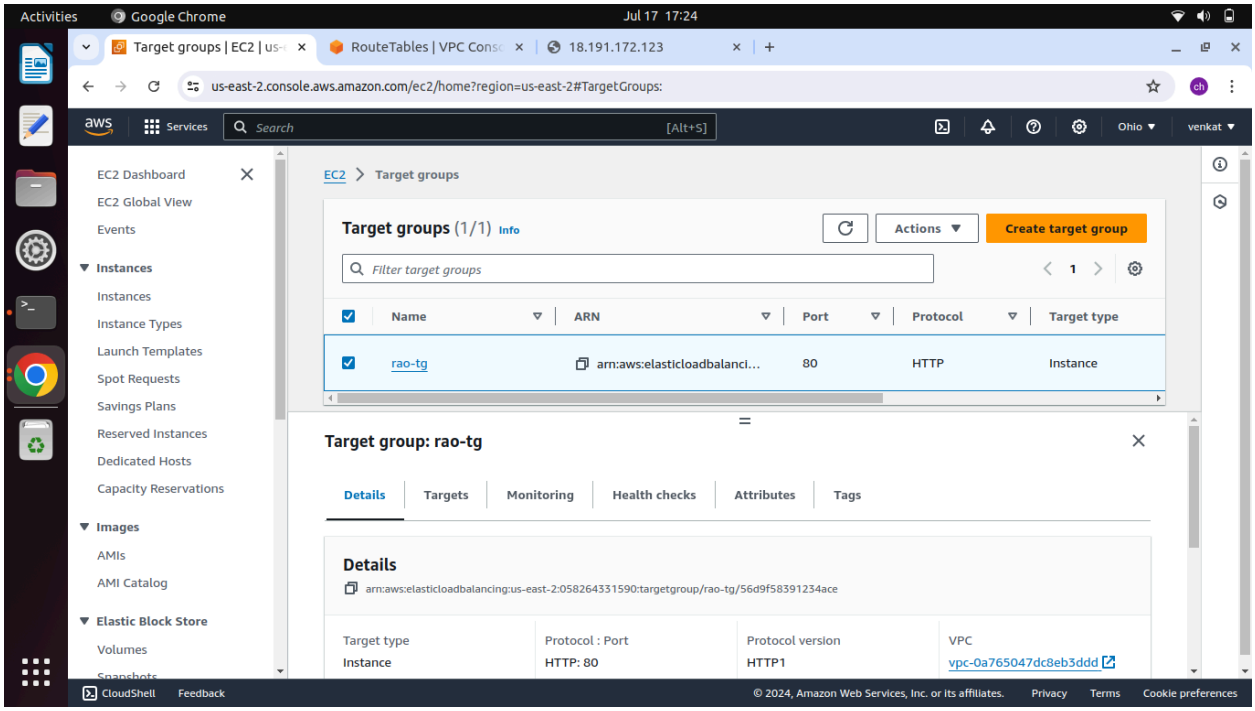




26) Go to target group click create target group select instances

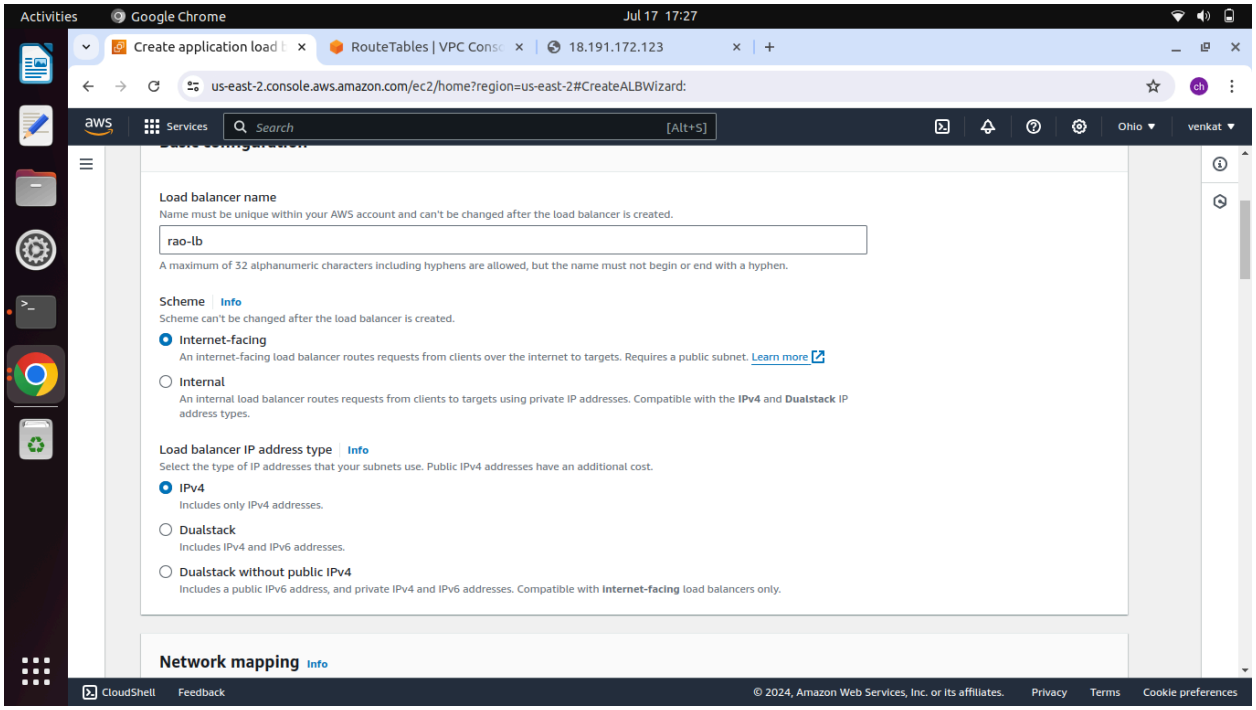
27) name=rao-tg click next select rao and venkat server click include as pending below click create target group

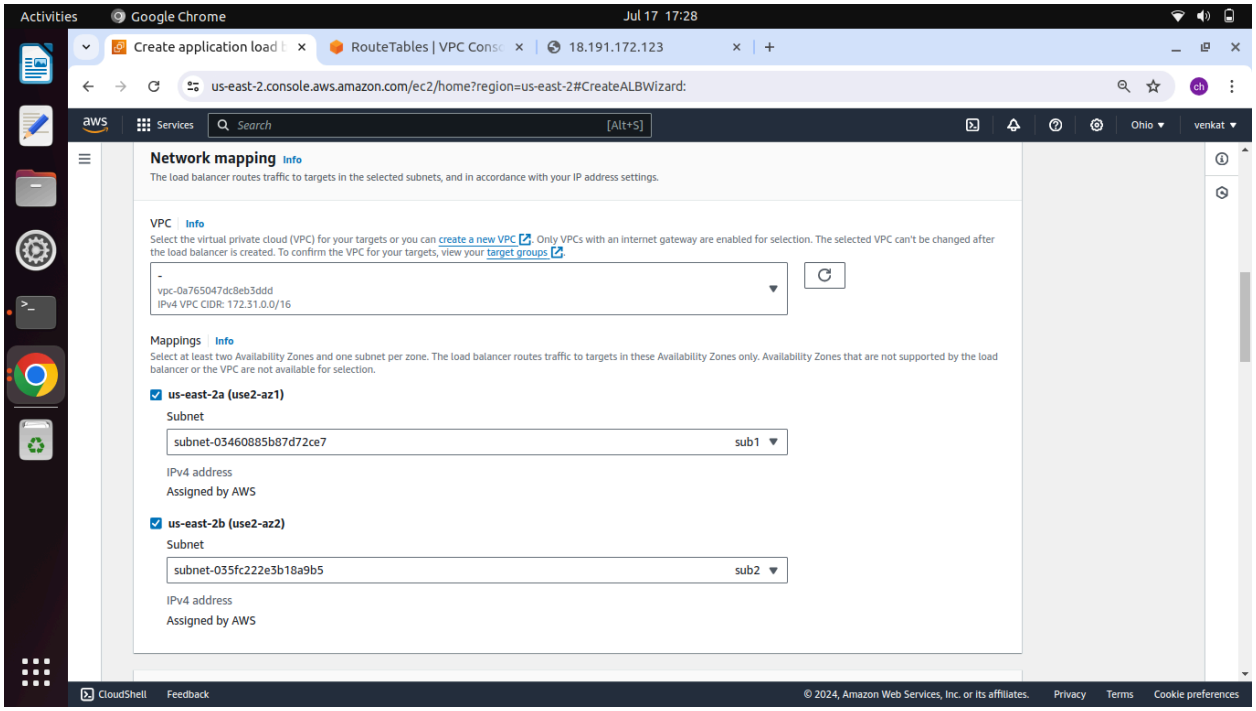


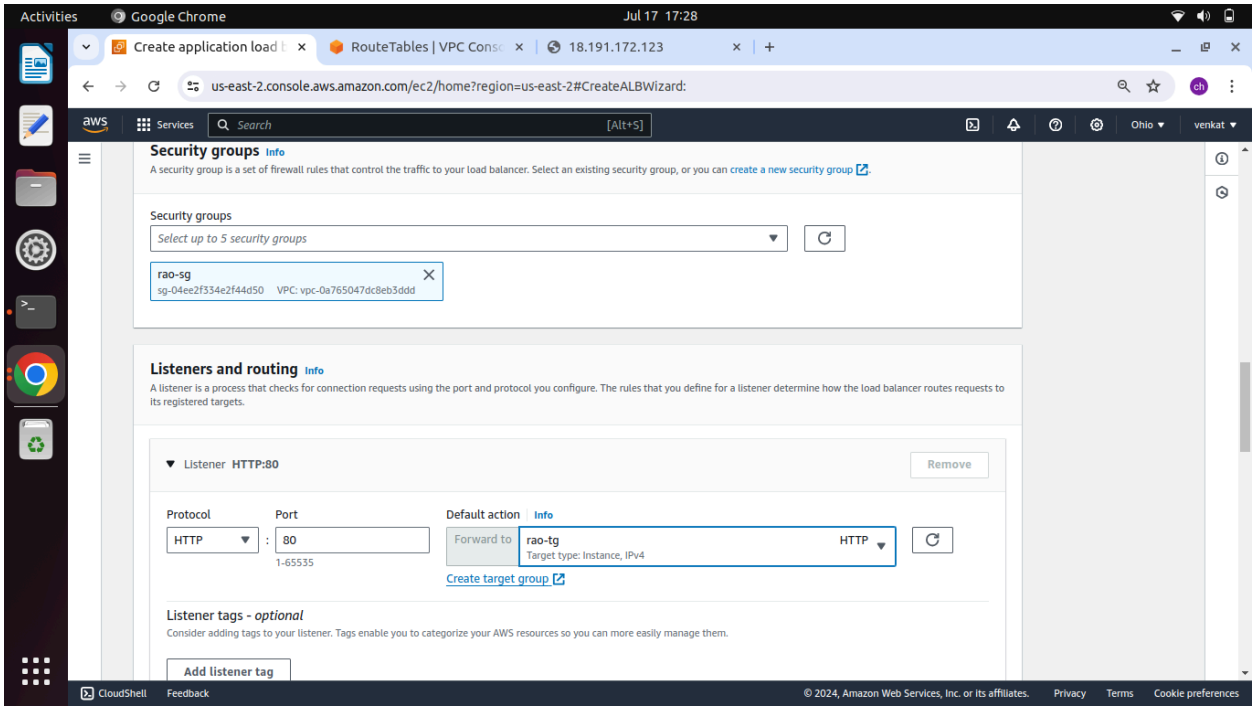


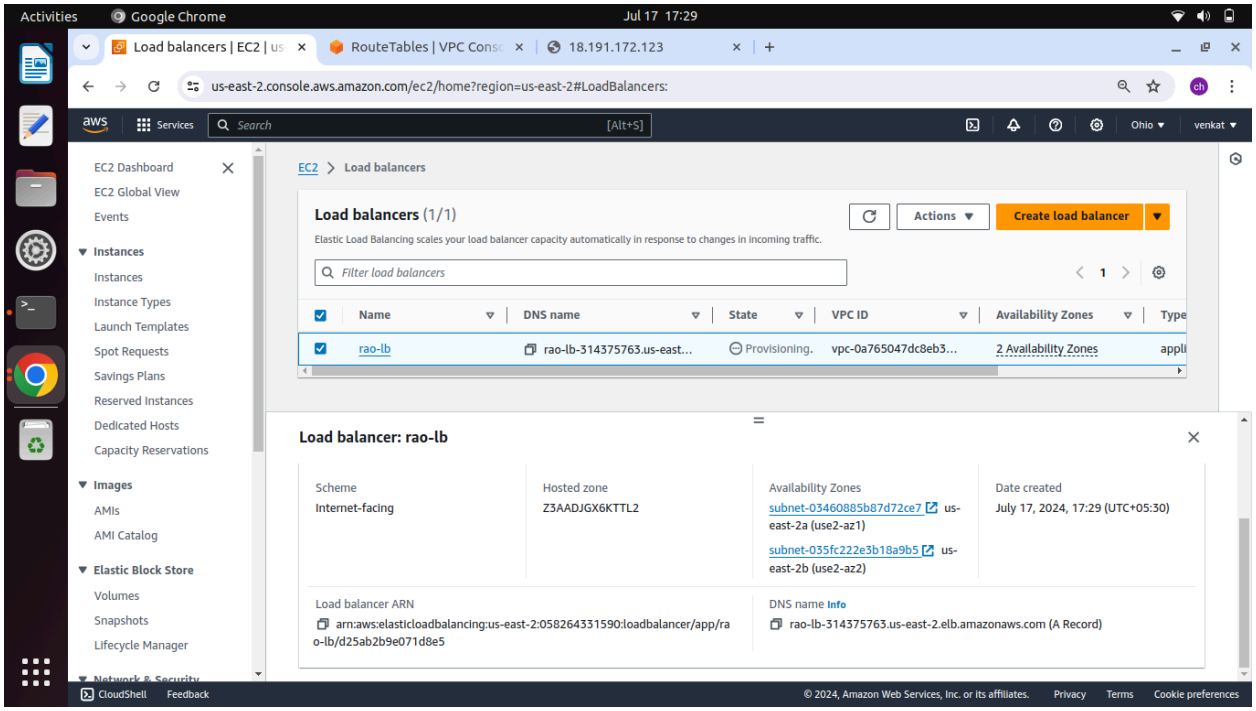
28) Now go to load balancer click create load balancer select application load balancer click create set name= rao-lb click internet facing and ipv4 in mapping select both zones and sg= rao-sg

29) listeners and routing= rao-tg click create load balancer


Activities
Google Chrome
Jul 17 17:27
Create application load
RouteTables | VPC Cons
18.191.172.123
us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateALBWizard:
aws
Services
Search
[Alt+S]
Ohio
venkat
Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.
rao-lb
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Scheme Info
Scheme can't be changed after the load balancer is created.
Internet-facing
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more
Internal
An internal load balancer routes requests from clients to targets using private IP addresses. Compatible with the IPv4 and Dualstack IP address types.
Load balancer IP address type Info
Select the type of IP addresses that your subnets use. Public IPv4 addresses have an additional cost.
IPv4
Includes only IPv4 addresses.
Dualstack
Includes IPv4 and IPv6 addresses.
Dualstack without public IPv4
Includes a public IPv6 address, and private IPv4 and IPv6 addresses. Compatible with internet-facing load balancers only.
Network mapping Info
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

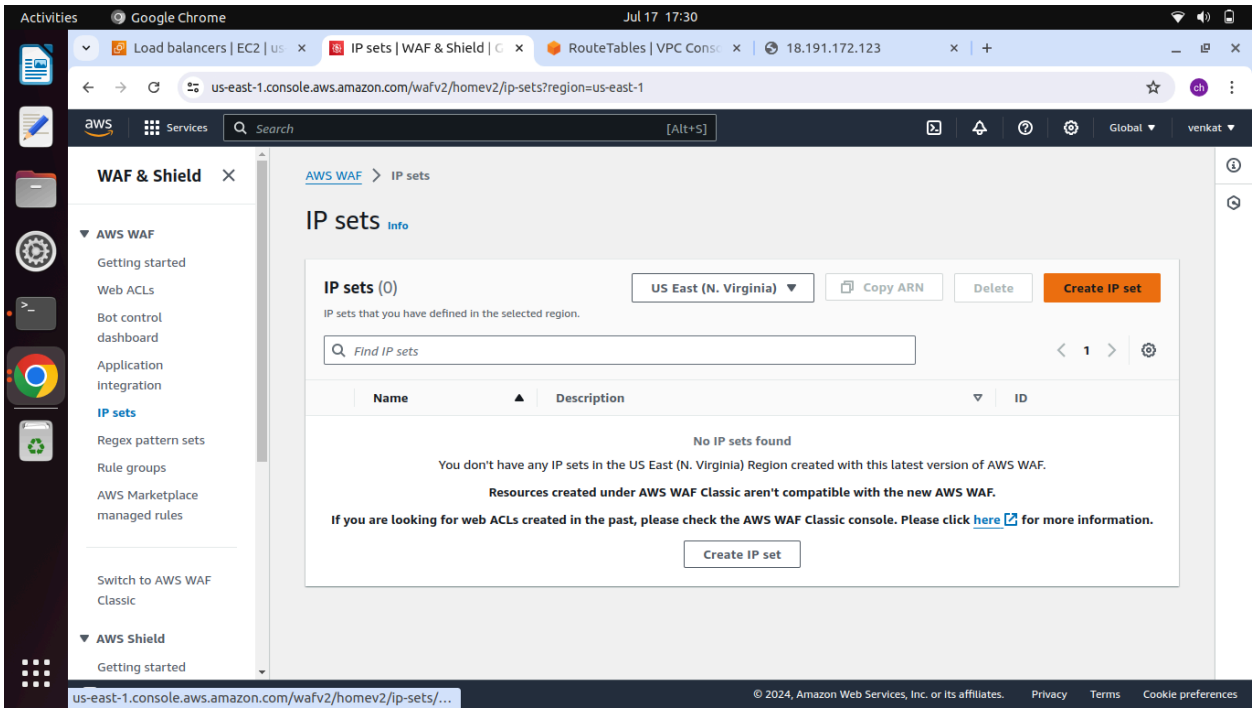

Activities
Google Chrome
Jul 17 17:28
Create application load
RouteTables | VPC Cons
18.191.172.123
us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#CreateALBWizard:
aws
Services
Search
[Alt+S]
Ohio
venkat
Network mapping Info
The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.
VPC Info
Select the virtual private cloud (VPC) for your targets or you can create a new VPC. Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after the load balancer is created. To confirm the VPC for your targets, view your target groups.
-
vpc-0a765047dc8eb3ddd
IPv4 VPC CIDR: 172.31.0.0/16
Mappings Info
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.
us-east-2a (use2-az1)
Subnet
subnet-03460885b87d72ce7
sub1
IPv4 address
Assigned by AWS
us-east-2b (use2-az2)
Subnet
subnet-035fc222e3b18a9b5
sub2
IPv4 address
Assigned by AWS
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences





30) Now go to waf

31) Select ip set click create ip set

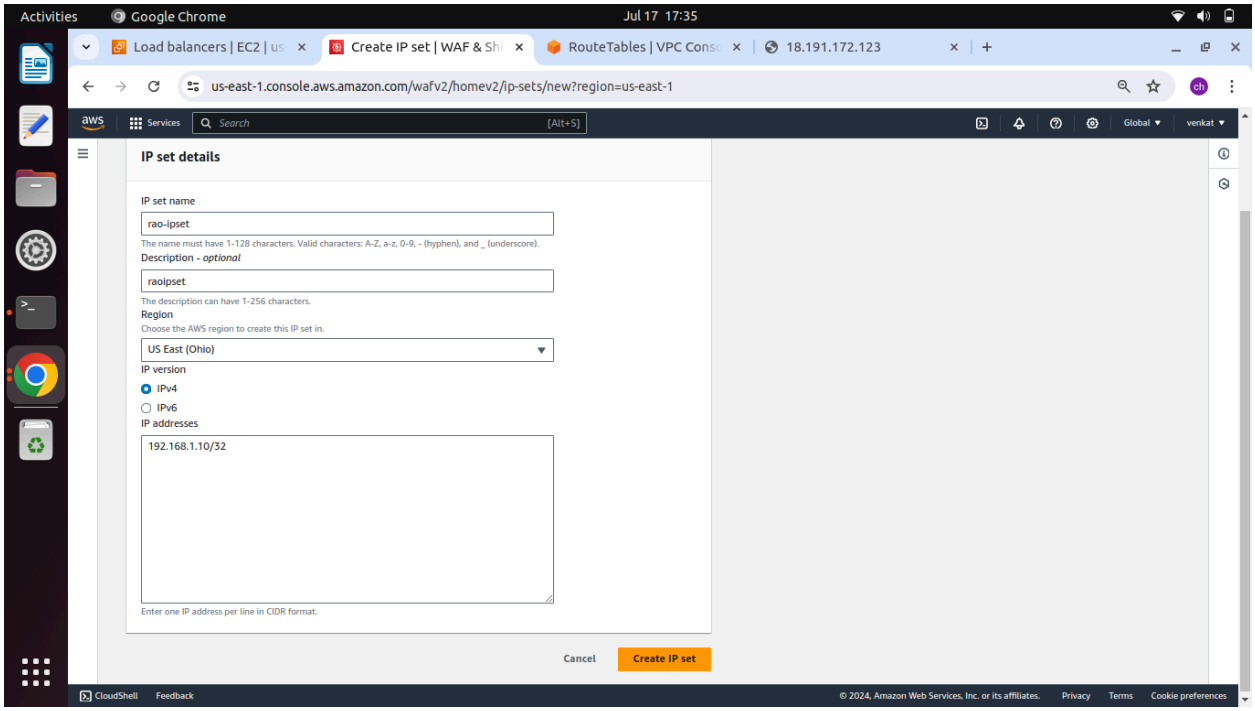


32) name= rao-ipset

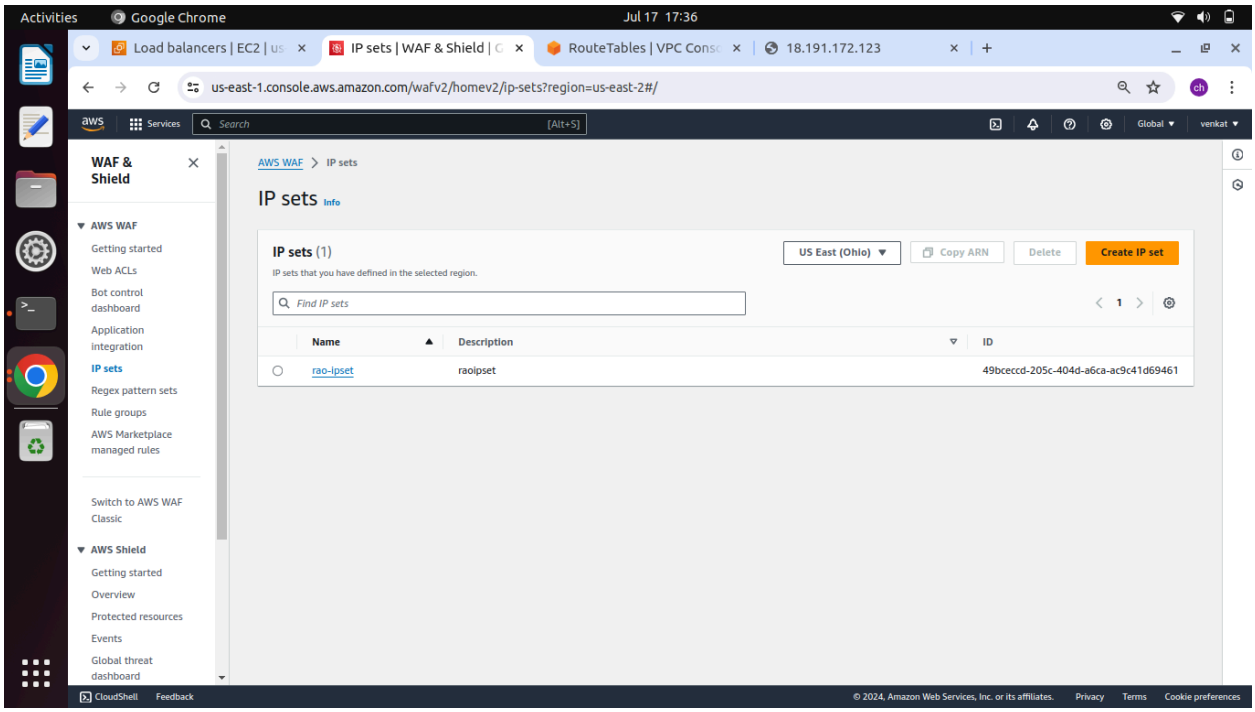
33) region= ohio

34) Ip version=1pv4

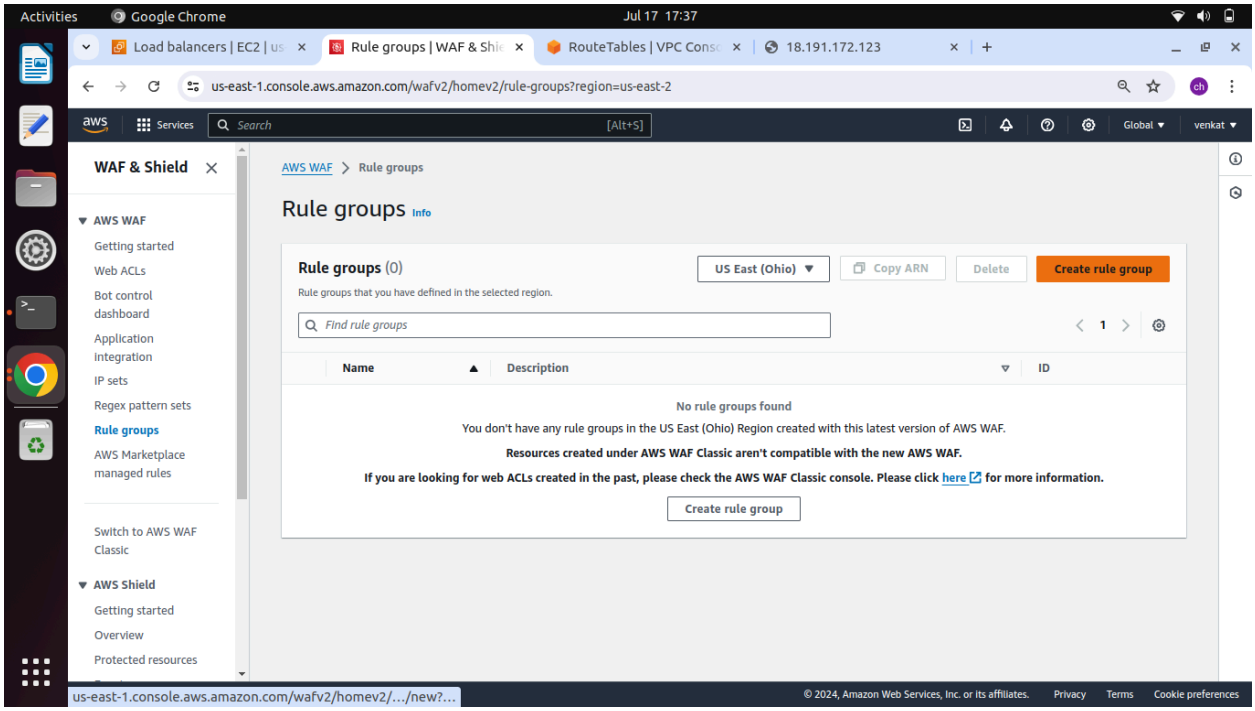
35) Give ip address you blocked ip=192.168.1.10/32



36) Click create ip set

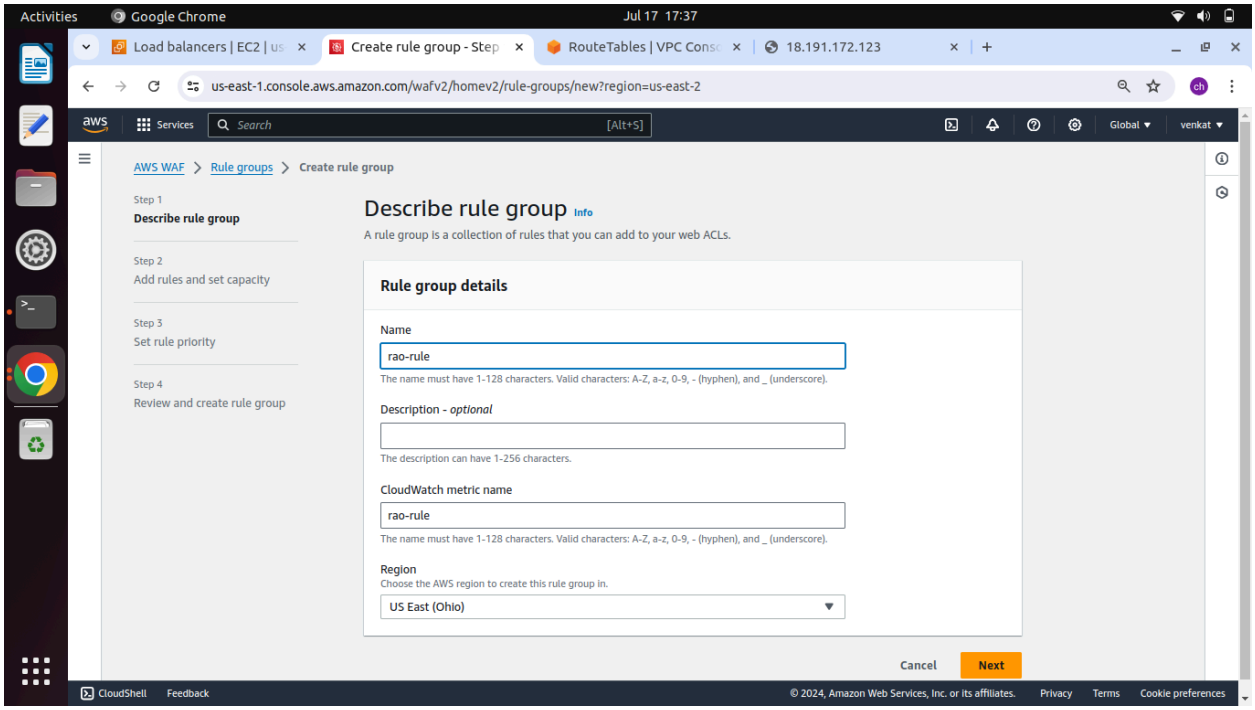


37) Click rule group click create rule group



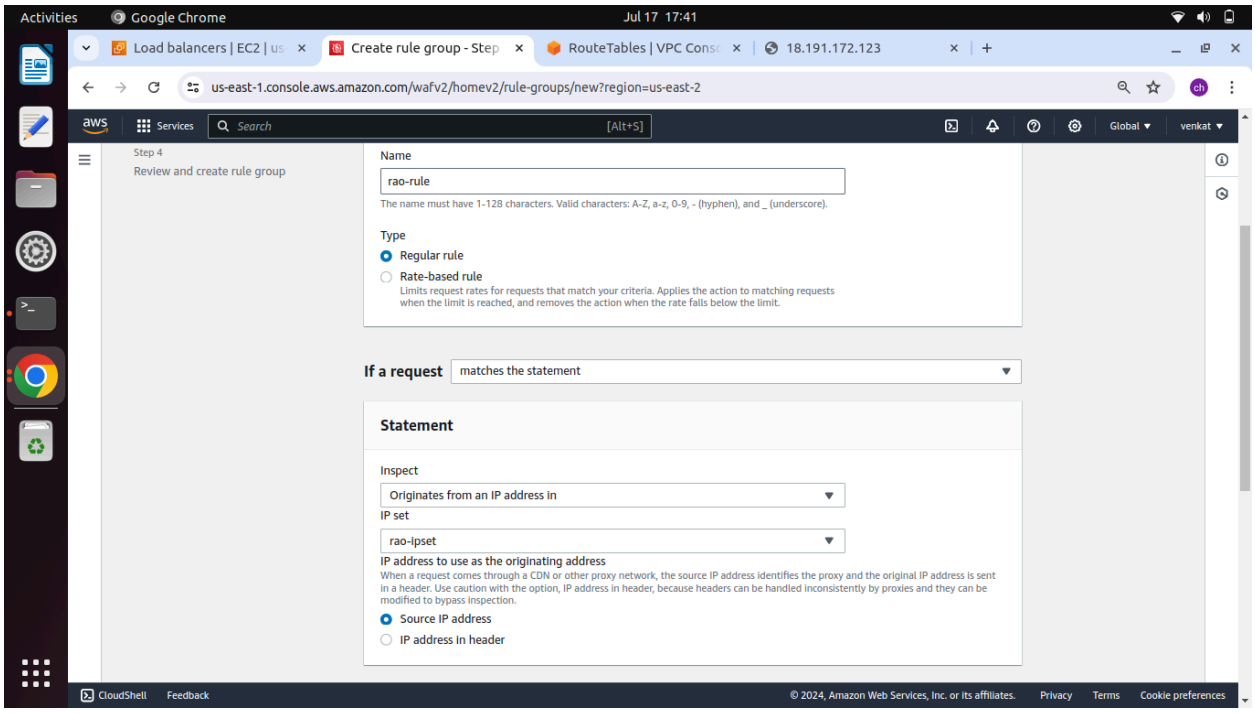
38) name=rao-rule

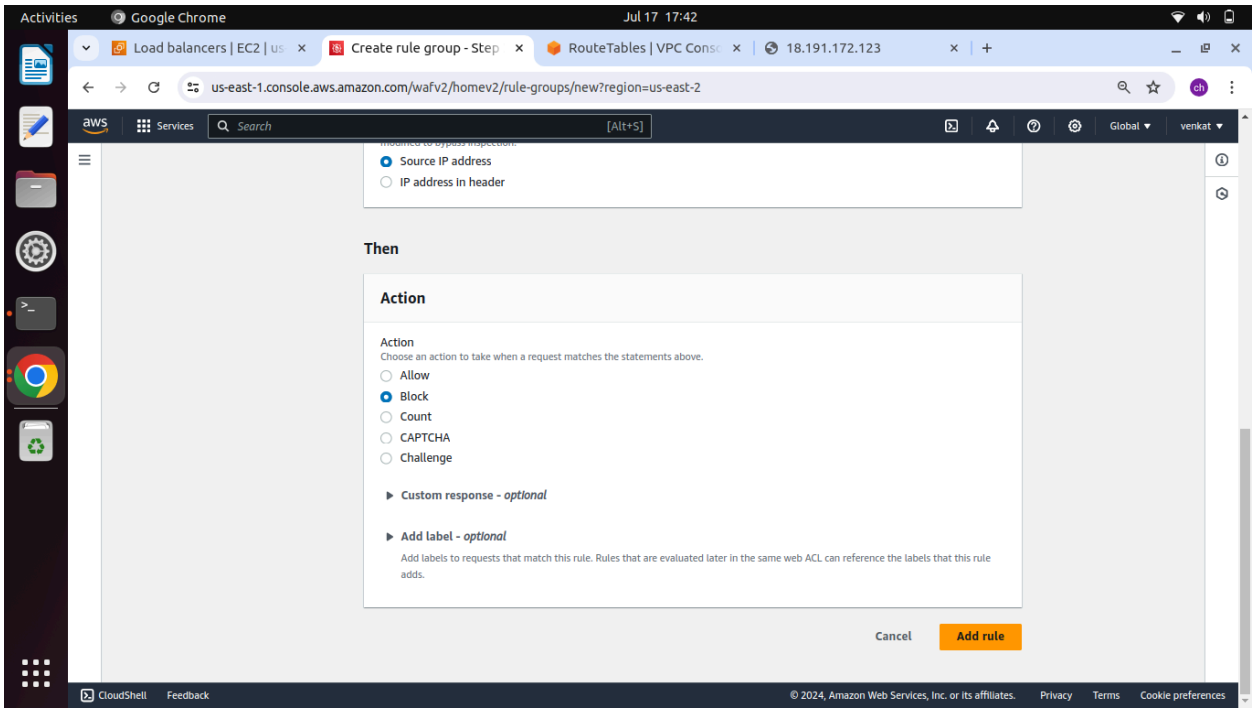
39) region= ohio



40) Next click add rule name=rao-rule
41) type=regular rule
42) inspect=originates from an ip address in
43) Ip set= rao-ipset
44) Select source ip address

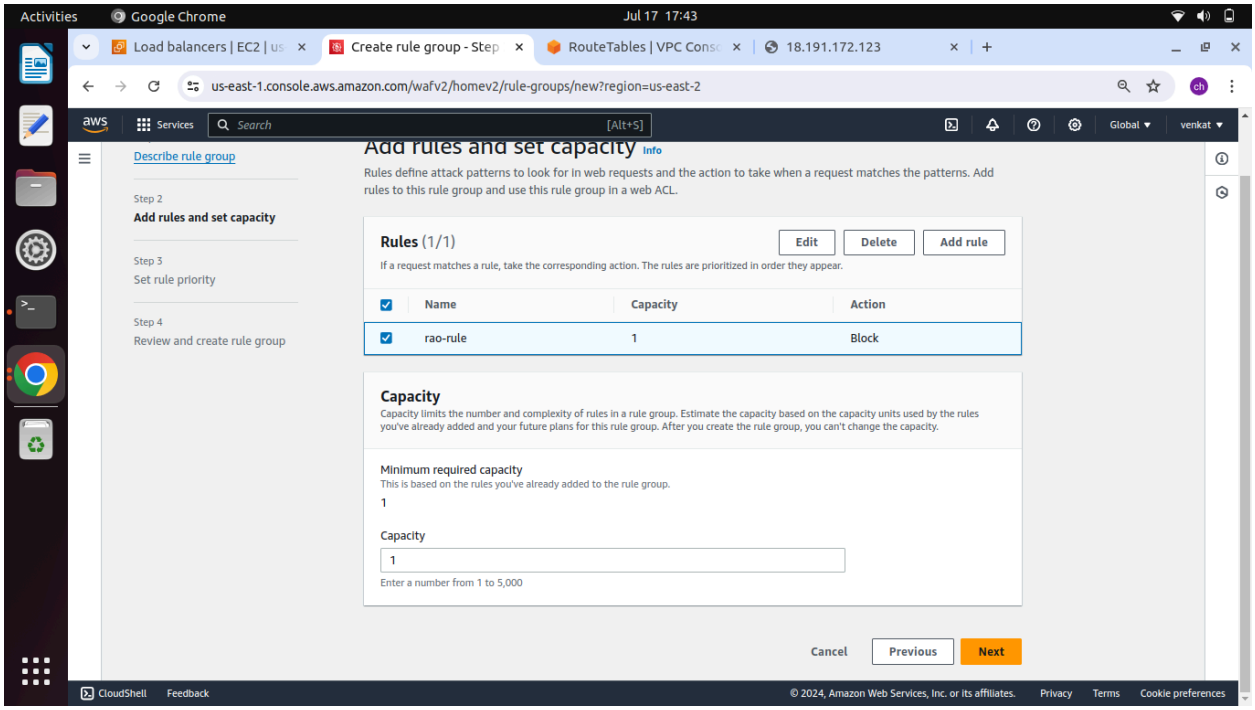
45) action= block



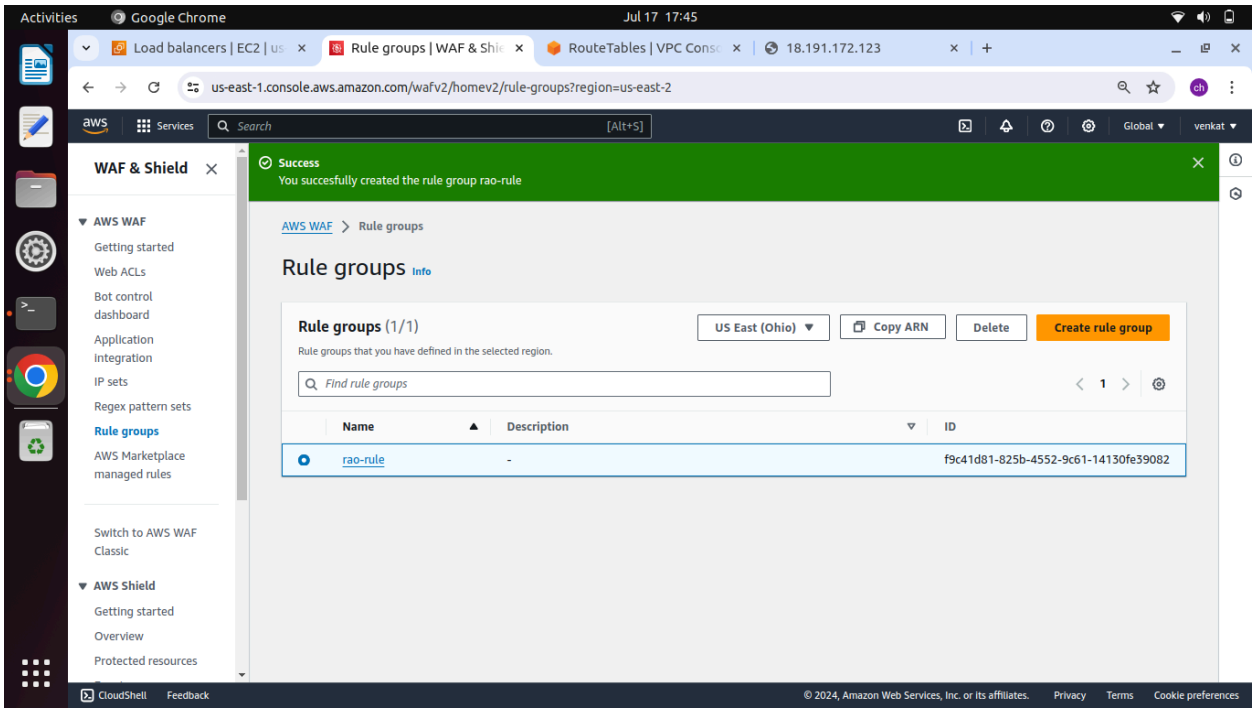


46) Click add rule

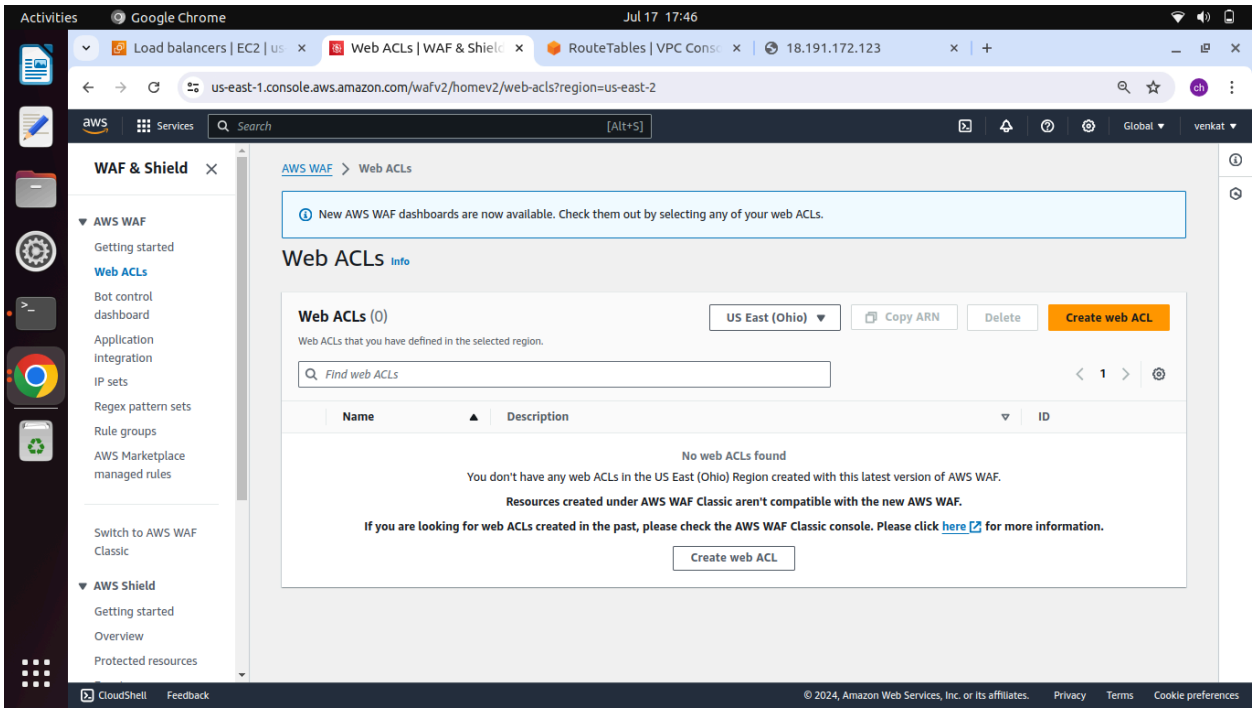
47) Add rules and set capacity= select rao-rule click next



48) Set rule priority= select rao-rule click next click rule group

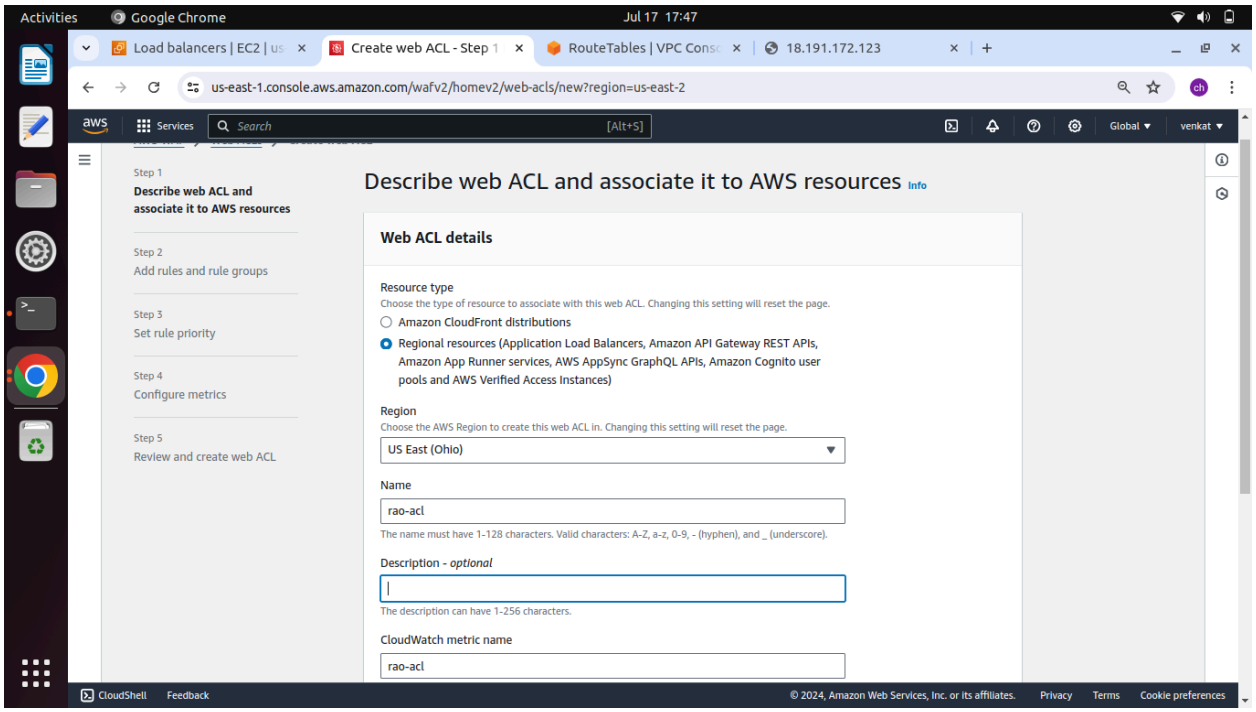


49) Click web acl set regio= ohio now click crete web acl

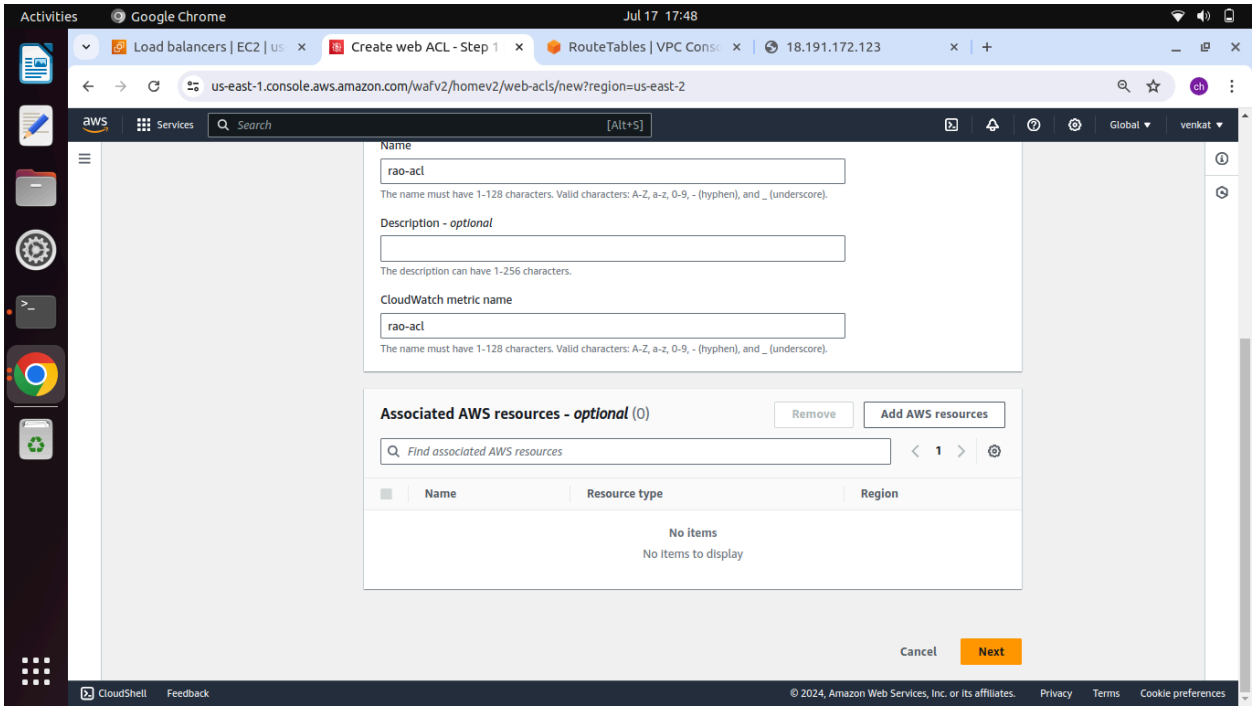


50) Select =Regional resources (Application Load Balancers, Amazon API Gateway REST APIs, Amazon App Runner services, AWS AppSync GraphQL APIs, Amazon Cognito user pools and AWS Verified Access Instances)

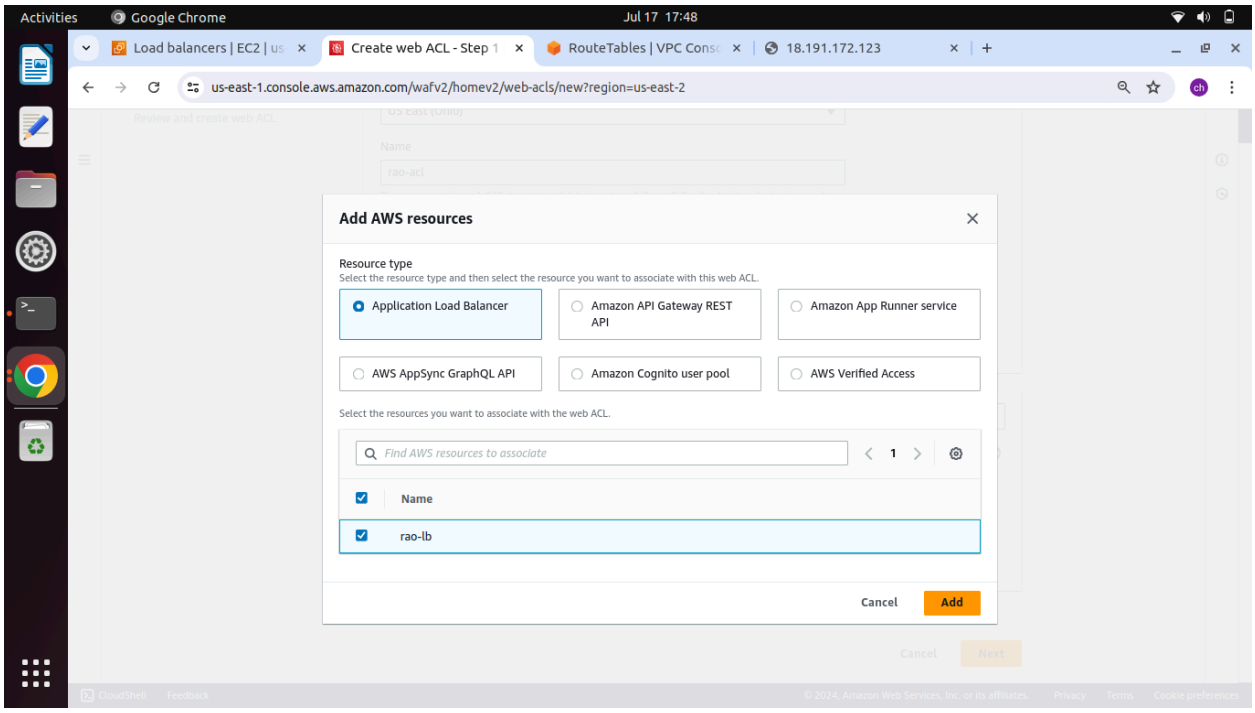
51) region= ohio



52) Click add aws resources

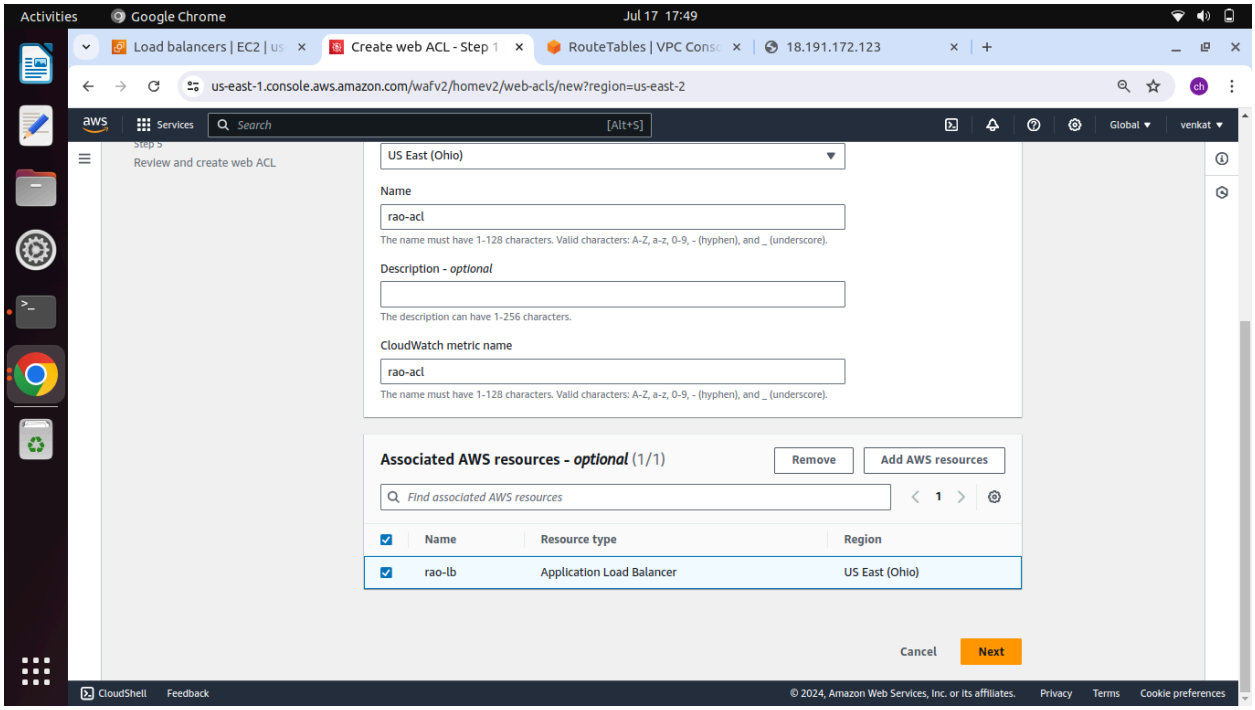


53) Select application load balancer and select rao-lb click add

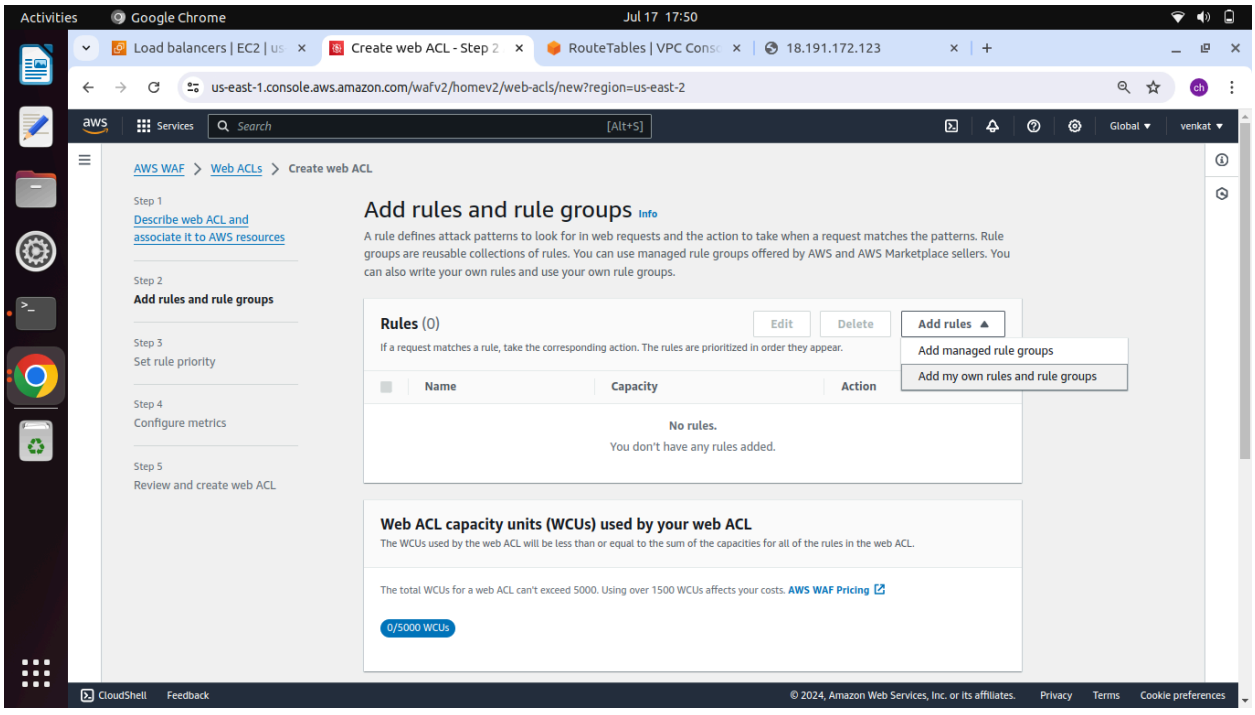


54) Now select rao-lb click next

55)

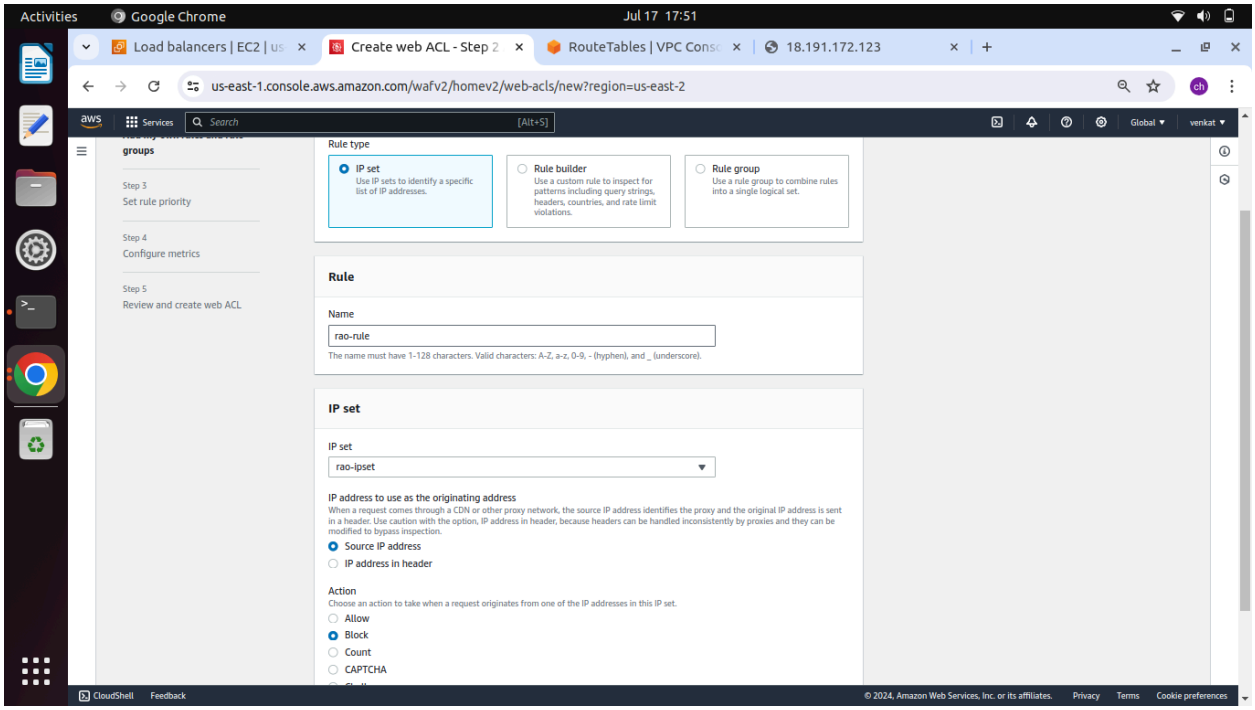


56) Click add rules select add my own rules and rule groups

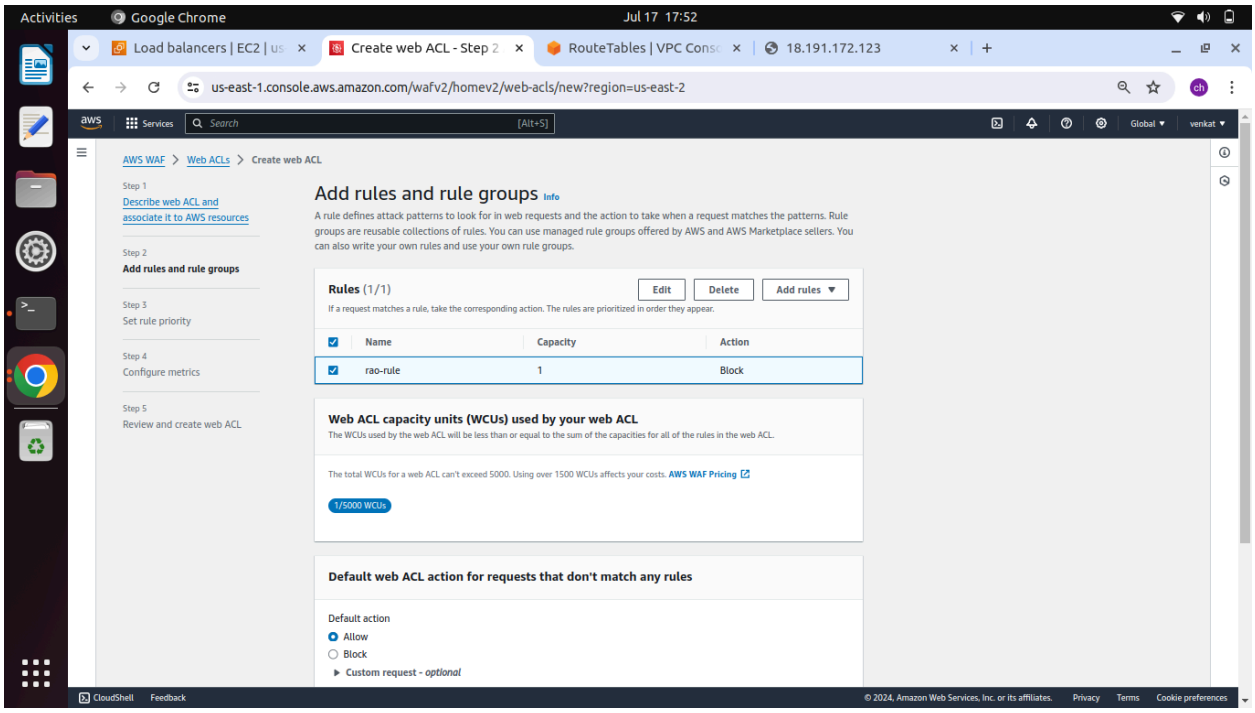


57)

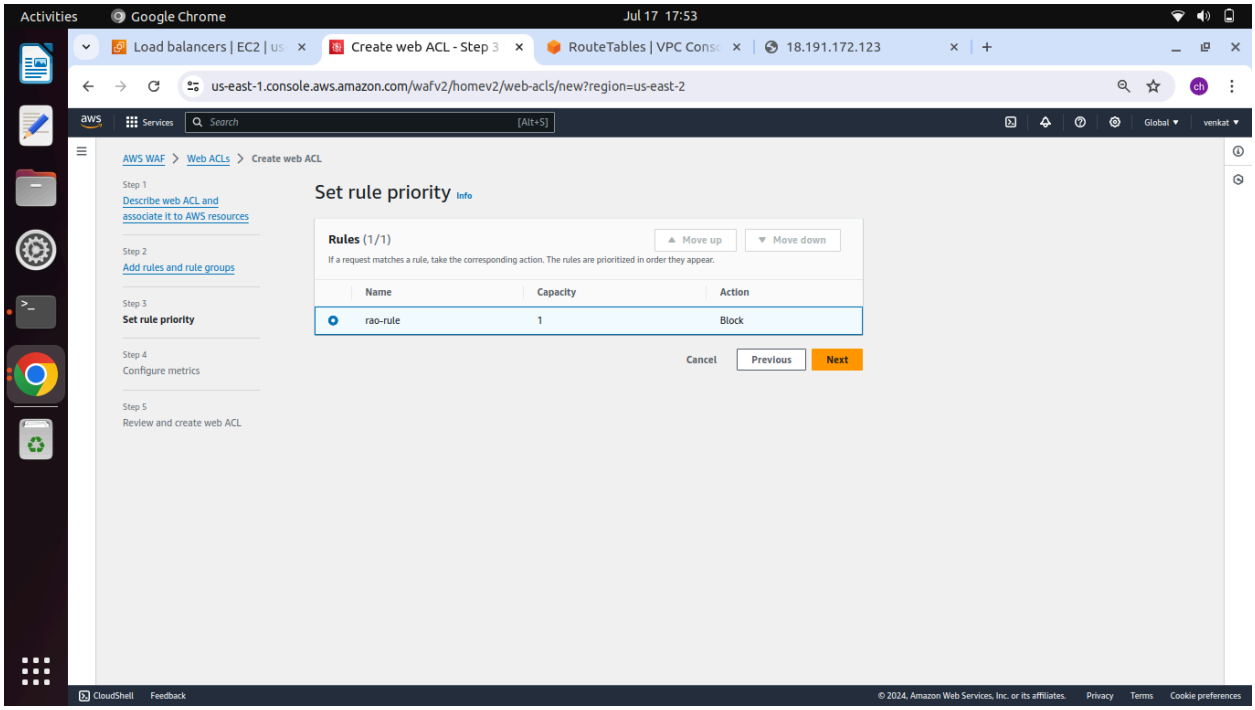
58) Select ip set and rule=rao-rule and ipset=rao-ip-set select source ip address and action= block click add rule

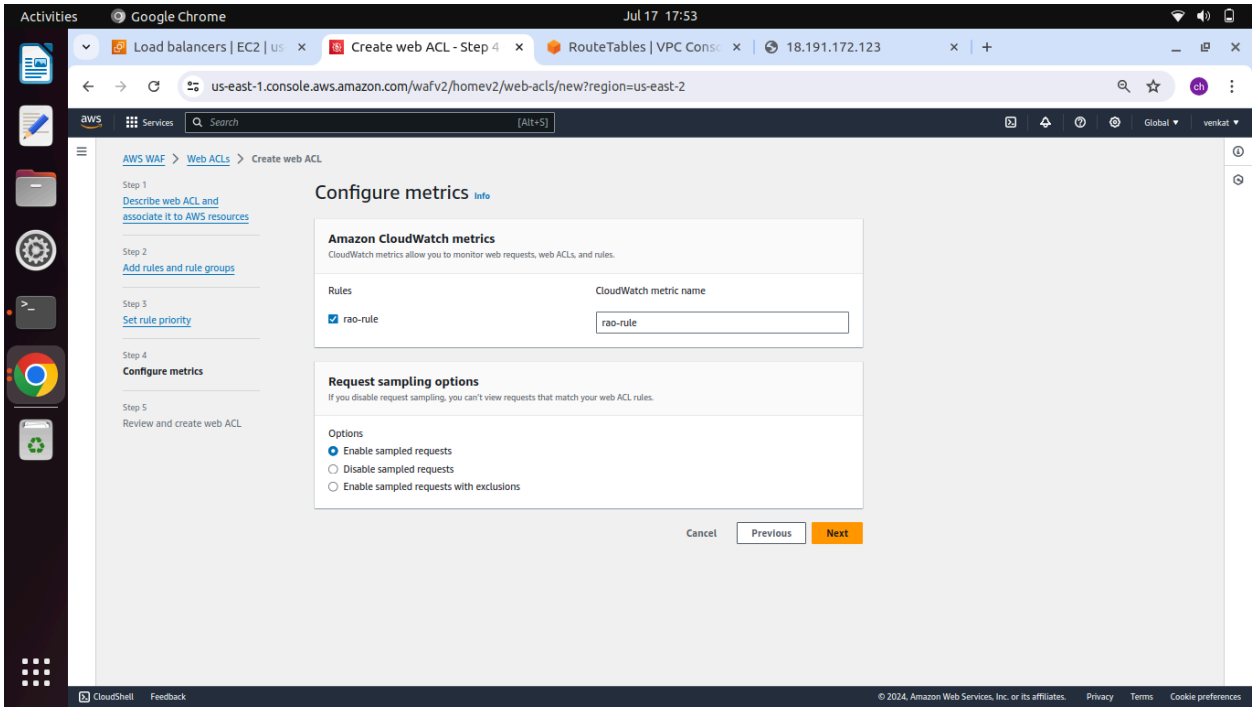


59) Select rule group =rao-rule



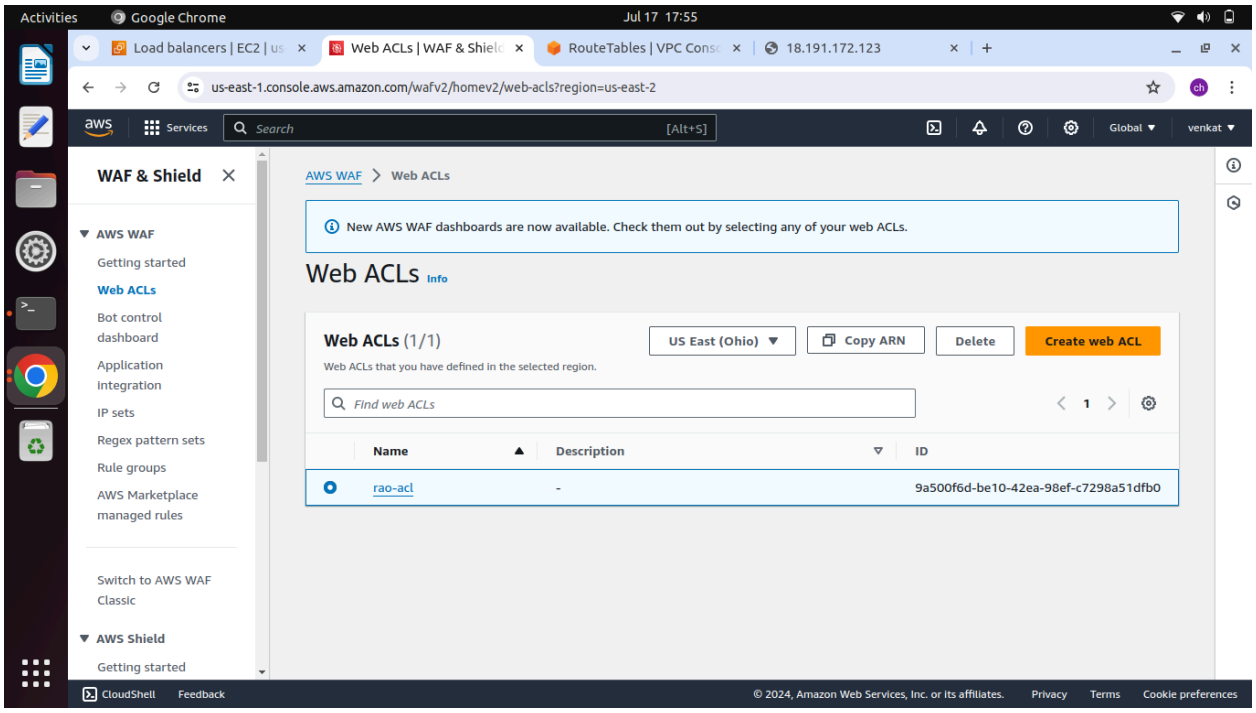
60) Set rule priority= rao-rule

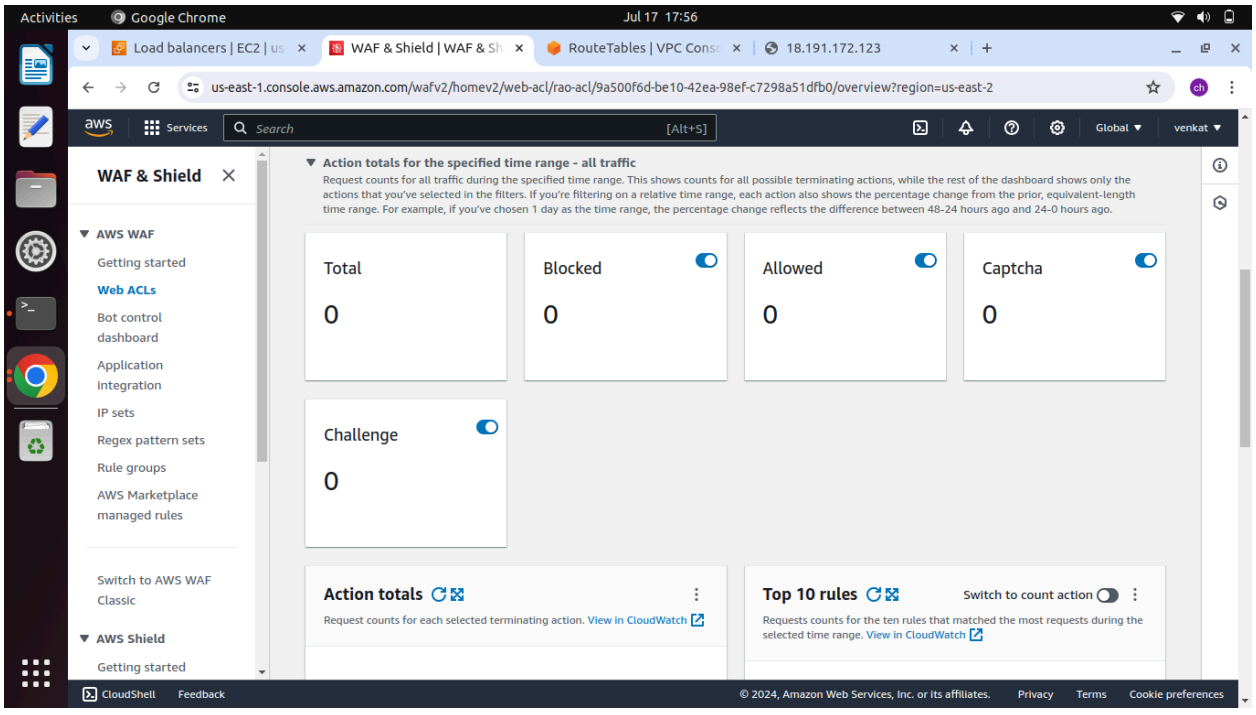




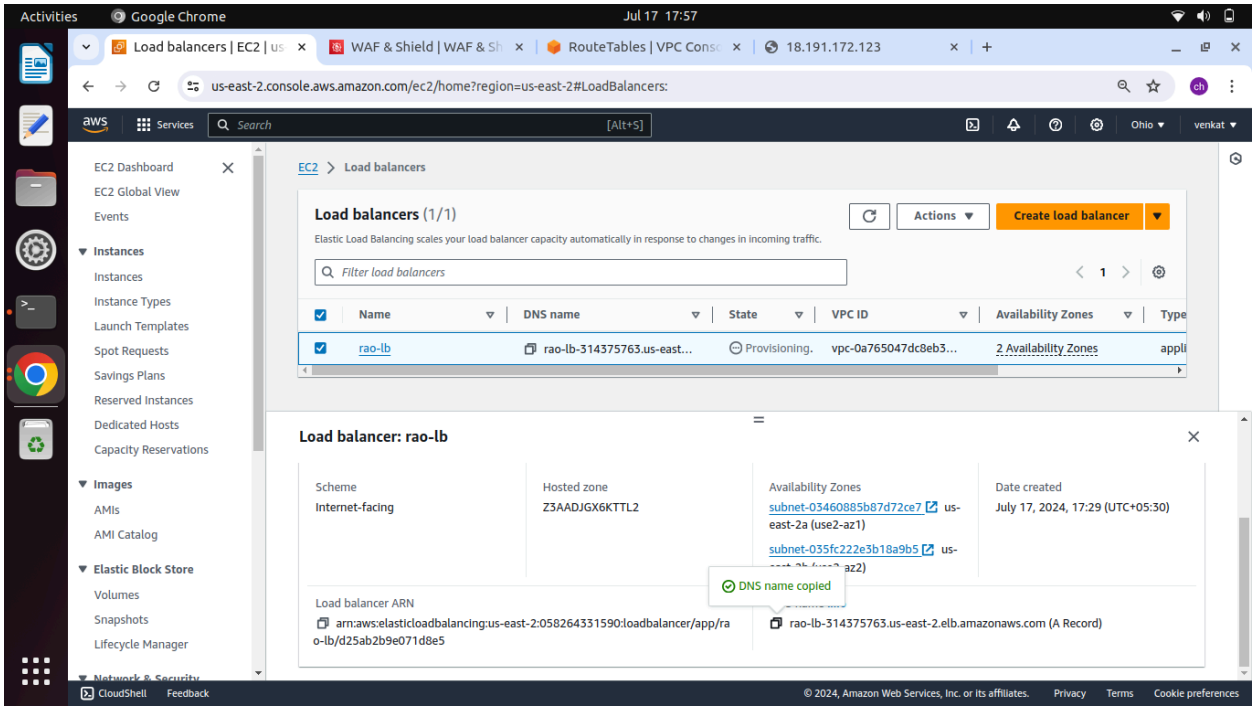
61) Next and create web acl

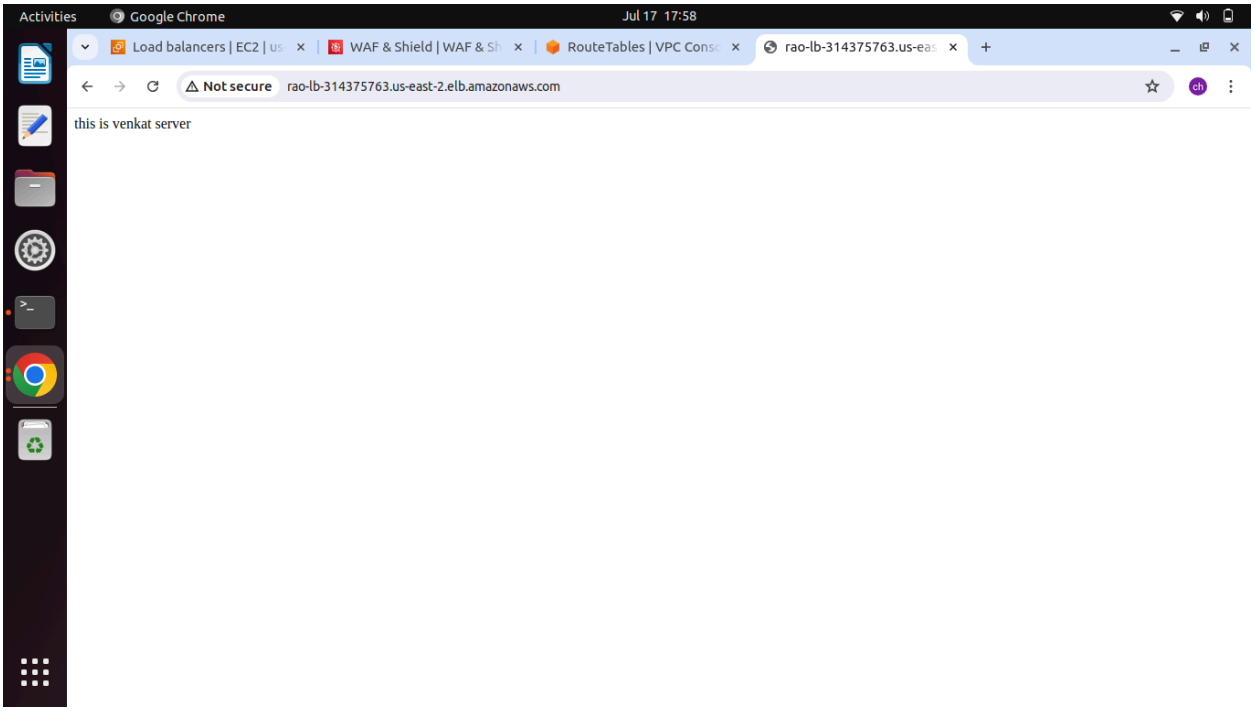
62) Select rao acl and open it scroll down check





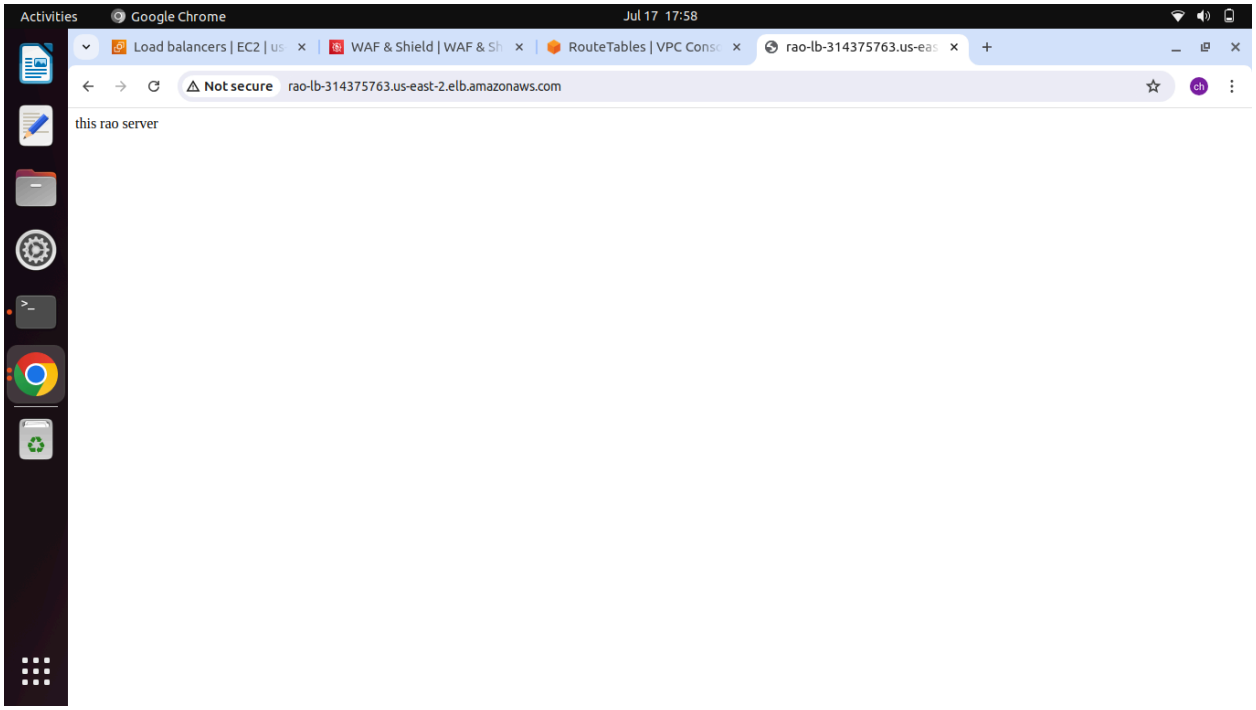
63) Go to load balancer copy rao-lb dns link paste in google and search and send friends check working or not after check ip user access or not

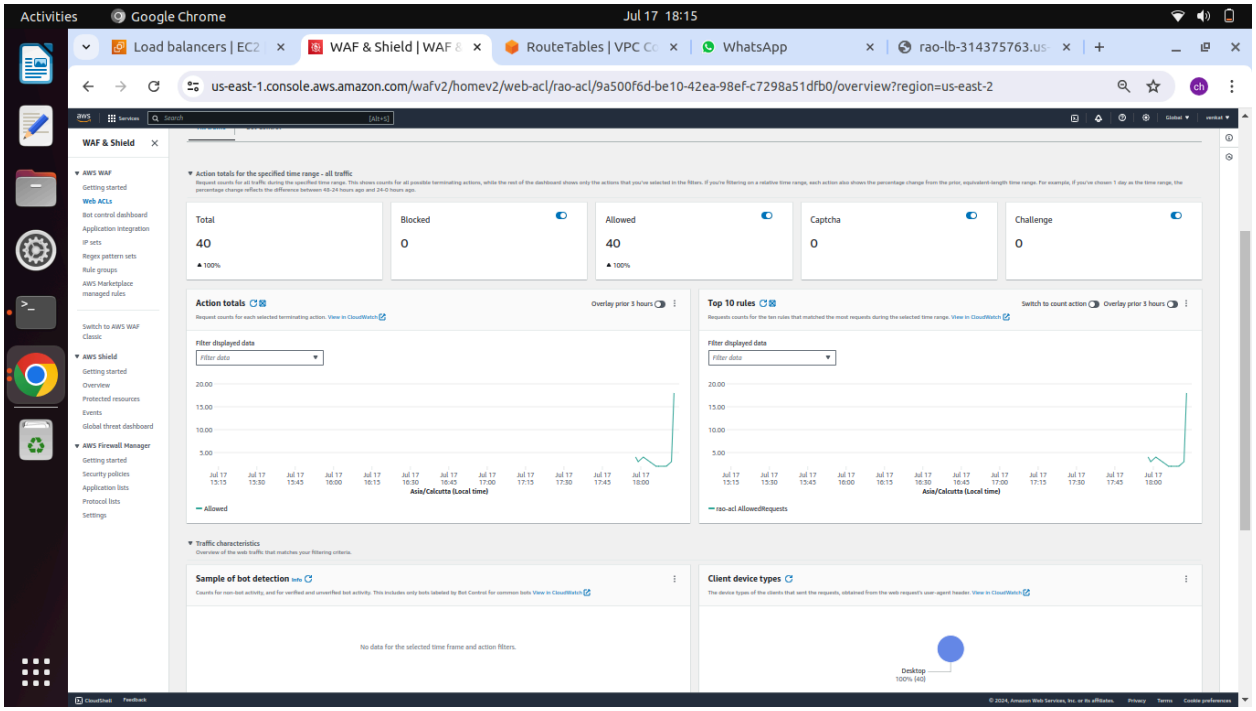


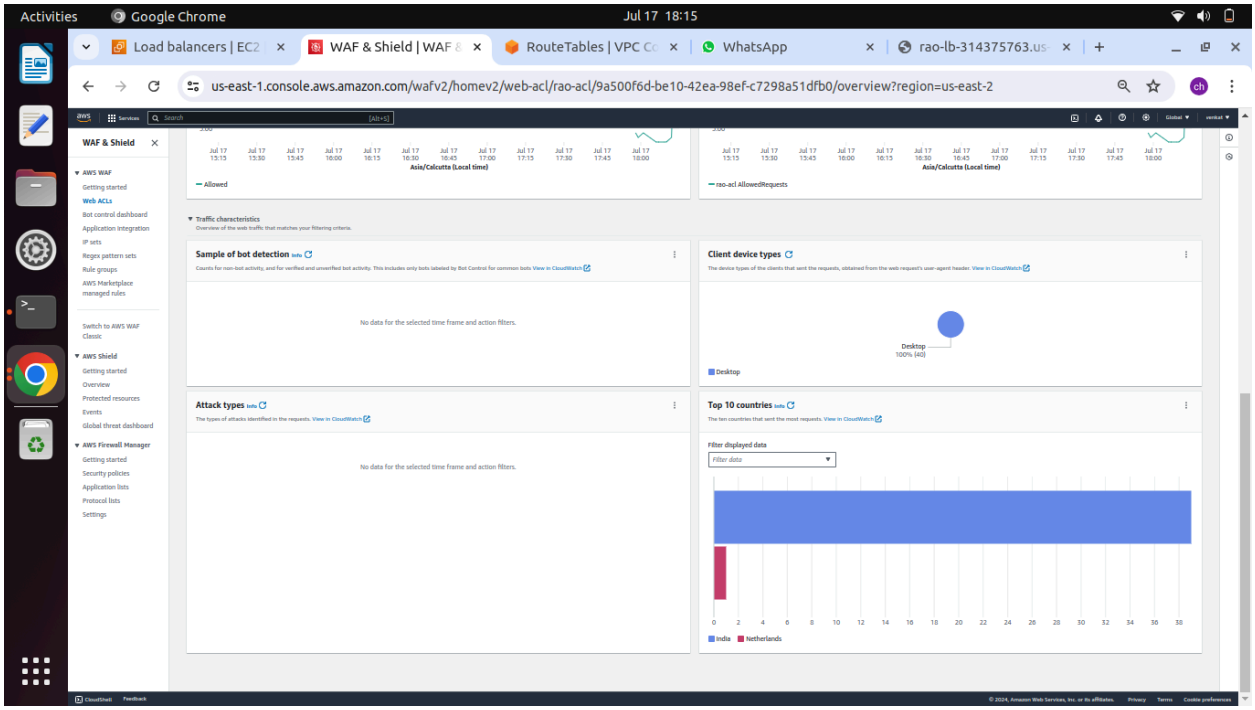


64)

65) Refresh once


Activities
Google Chrome
Jul 17 17:58
Load balancers | EC2 | us
WAF & Shield | WAF & Sh
RouteTables | VPC Conso
rao-lb-314375763.us-eas
Not secure
rao-lb-314375763.us-east-2.elb.amazonaws.com
this rao server


Activities
Google Chrome
Jul 17 18:15
Load balancers | EC2
WAF & Shield | WAF &
RouteTables | VPC Co
WhatsApp
rao-lb-314375763.us-
us-east-1.console.aws.amazon.com/wafv2/homev2/web-acl/rao-acl/9a500f6d-be10-42ea-98ef-c7298a51dfb0/overview?region=us-east-2
WAF & Shield
Total
40
Blocked
0
Allowed
40
Captcha
0
Challenge
0
Action totals
Top 10 rules
Sample of bot detection
Client device types
No data for the selected time frame and action filters.
Desktop


Activities
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WhatsApp
rao-lb-314375763.us-
us-east-1.console.aws.amazon.com/wafv2/homev2/web-acl/rao-acl/9a500f6d-be10-42ea-98ef-c7298a51dfb0/overview?region=us-east-2
WAF & Shield
AWS WAF
Getting started
Web ACLs
Bot control dashboard
Application integration
IP sets
Regex pattern sets
Rule groups
AWS Marketplace managed rules
Switch to AWS WAF Classic
AWS Shield
Getting started
Overview
Protected resources
Events
Global threat dashboard
AWS Firewall Manager
Getting started
Security policies
Application lists
Protocol lists
Settings
Asia/Calcutta (Local time)
Allowed
rao-acl AllowedRequests
Traffic characteristics
Sample of bot detection
No data for the selected time frame and action filters.
Client device types
Desktop
100% (40)
Attack types
No data for the selected time frame and action filters.
Top 10 countries
Filter displayed data
Filter data
India
Netherlands
CloudShell
Feedback