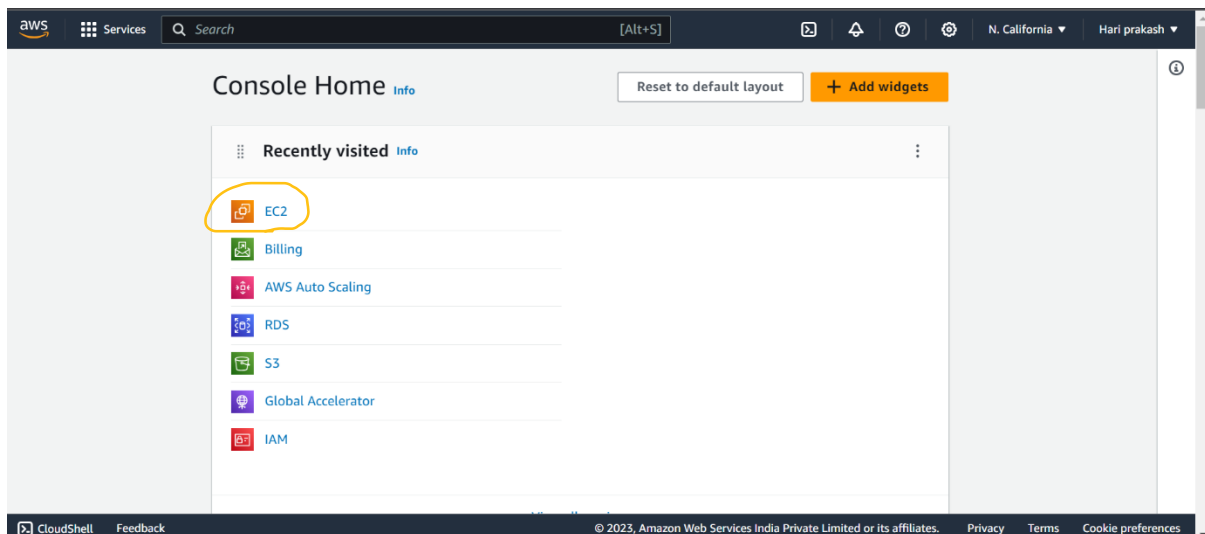
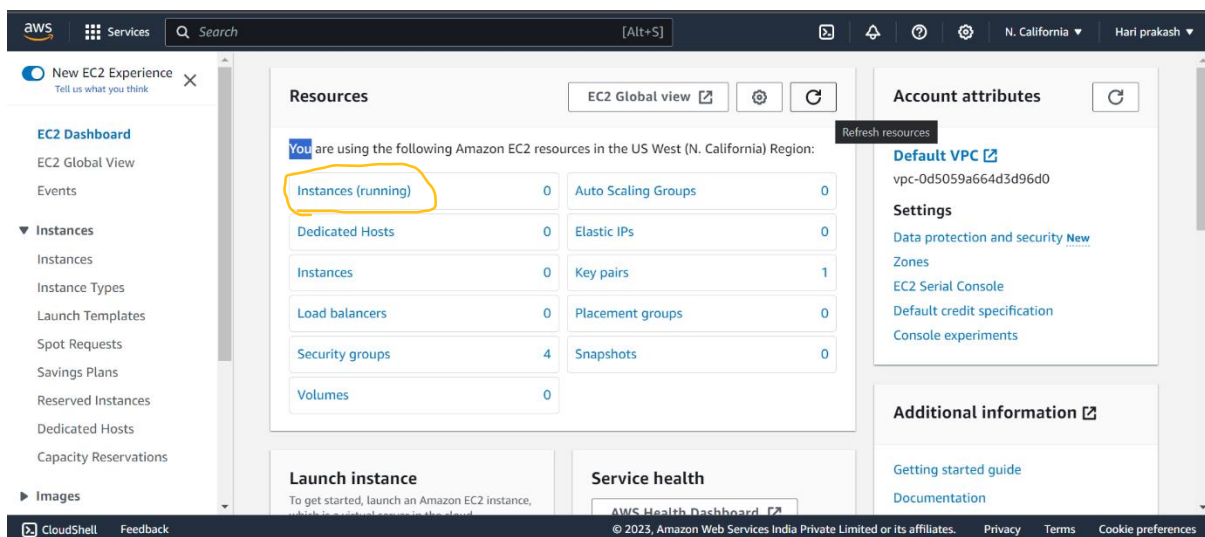


# TASK 7

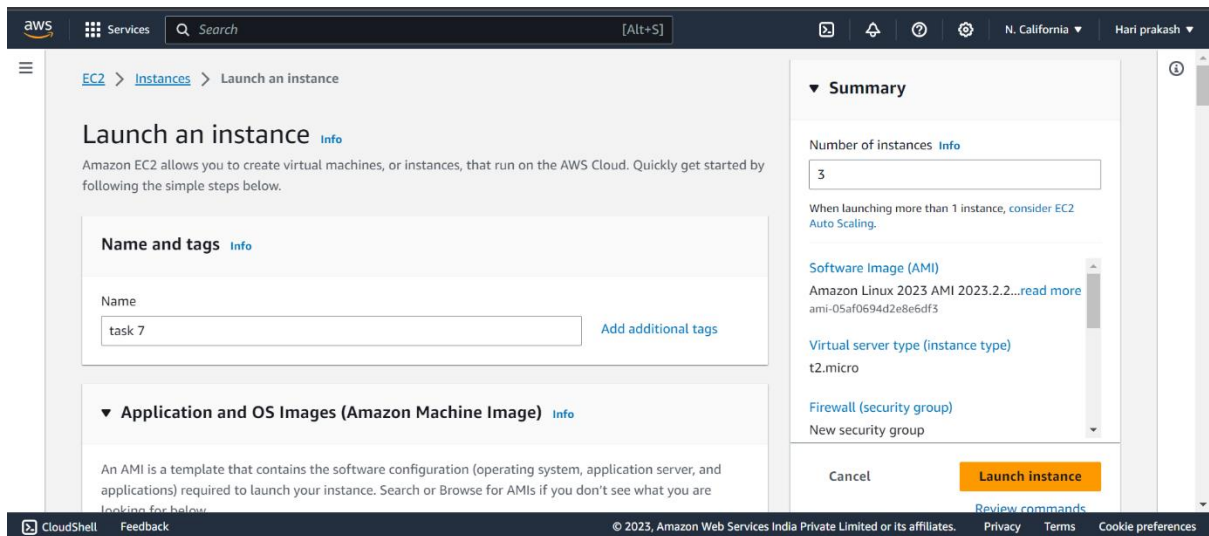
## CREATE THE LOAD BALANCER



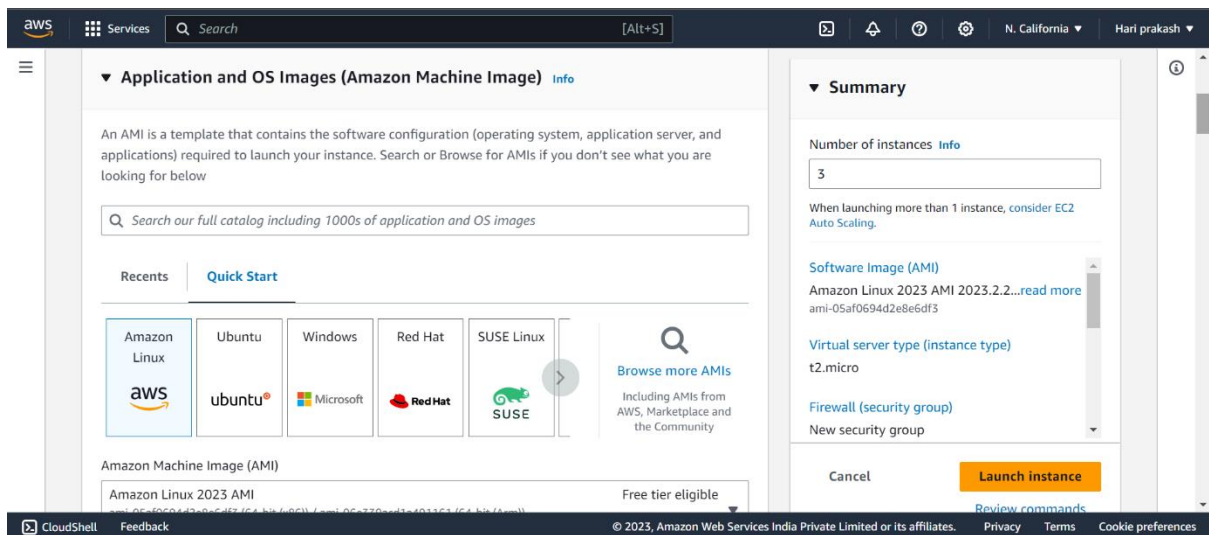
1. In that Console Home then enter the EC2



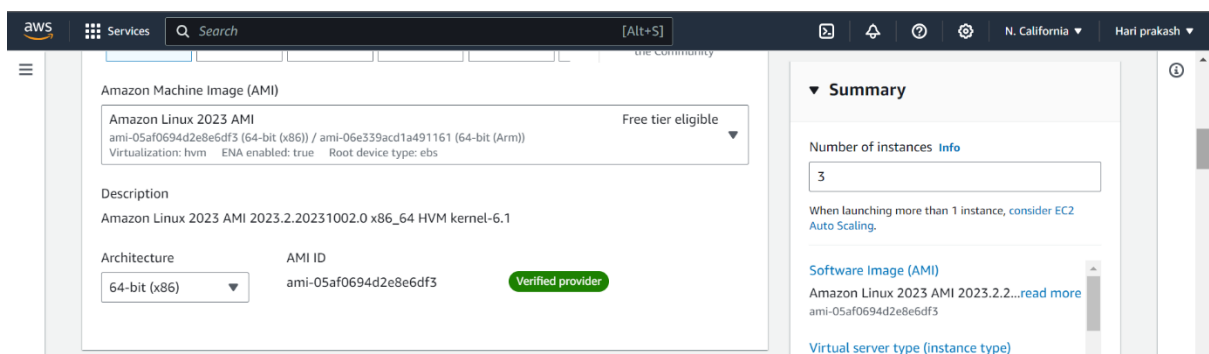
2. In that resources click the instance(running)



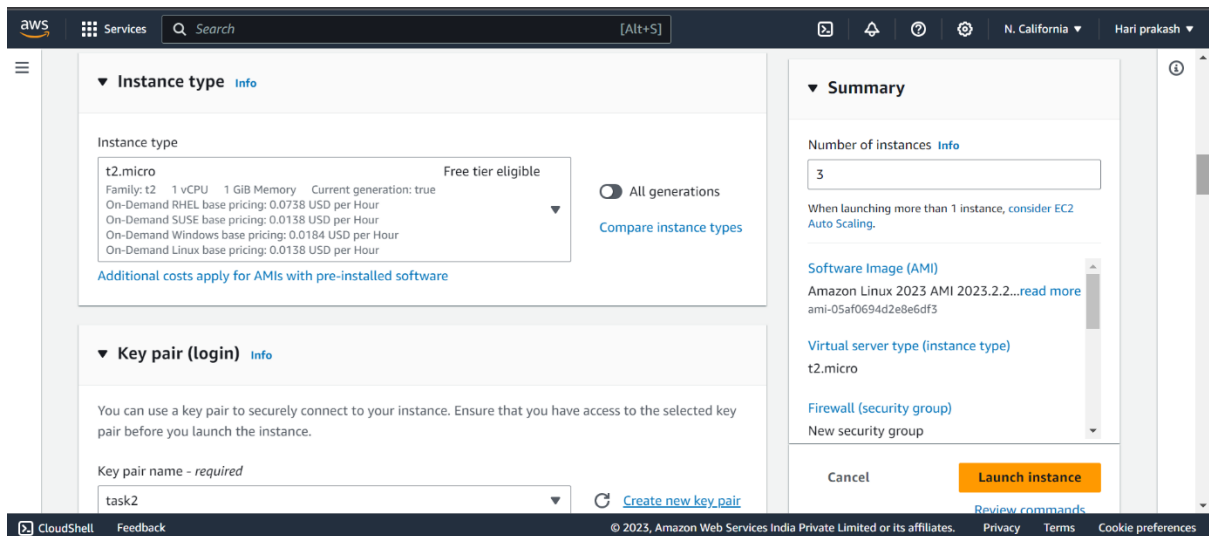
3. In that launch an instance enter the name and tags and I enter name as "task 7"



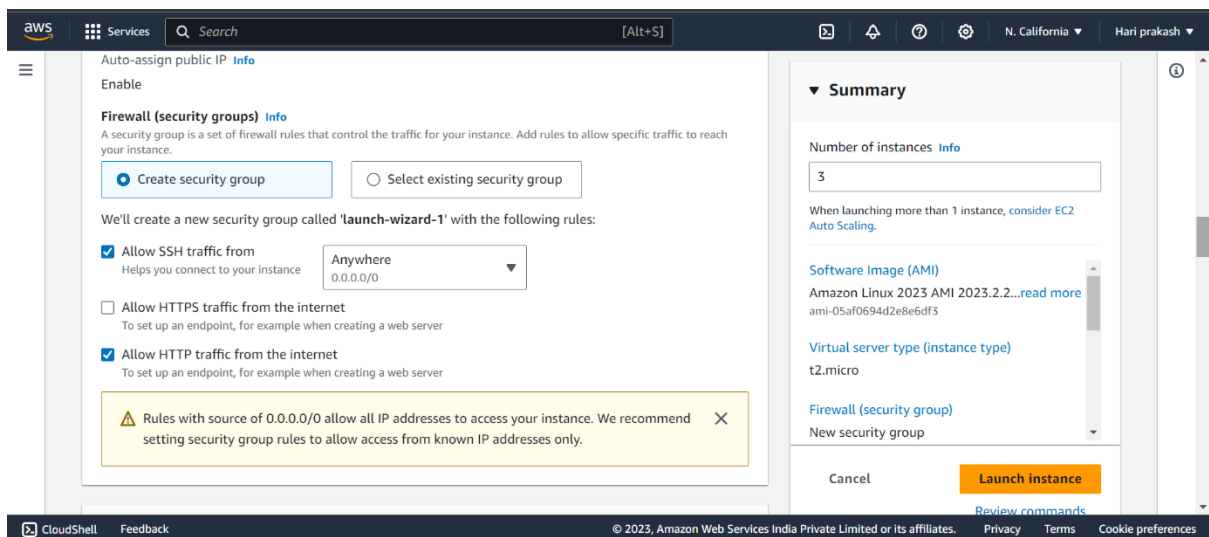
4. And entered the AMI and Operating System as Amazon linux



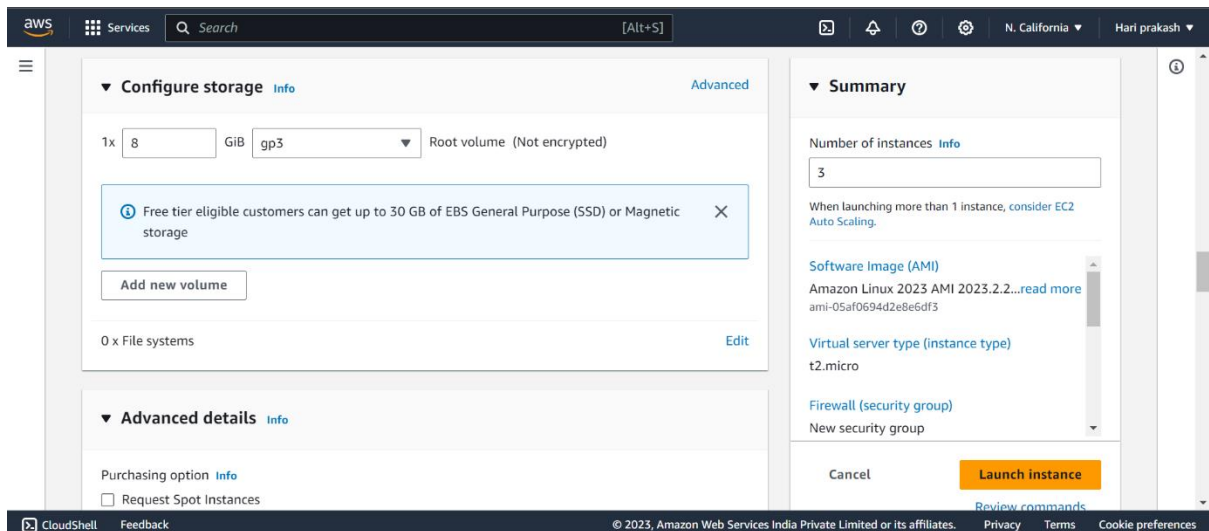
5. And then we get that linux 2023 AMI



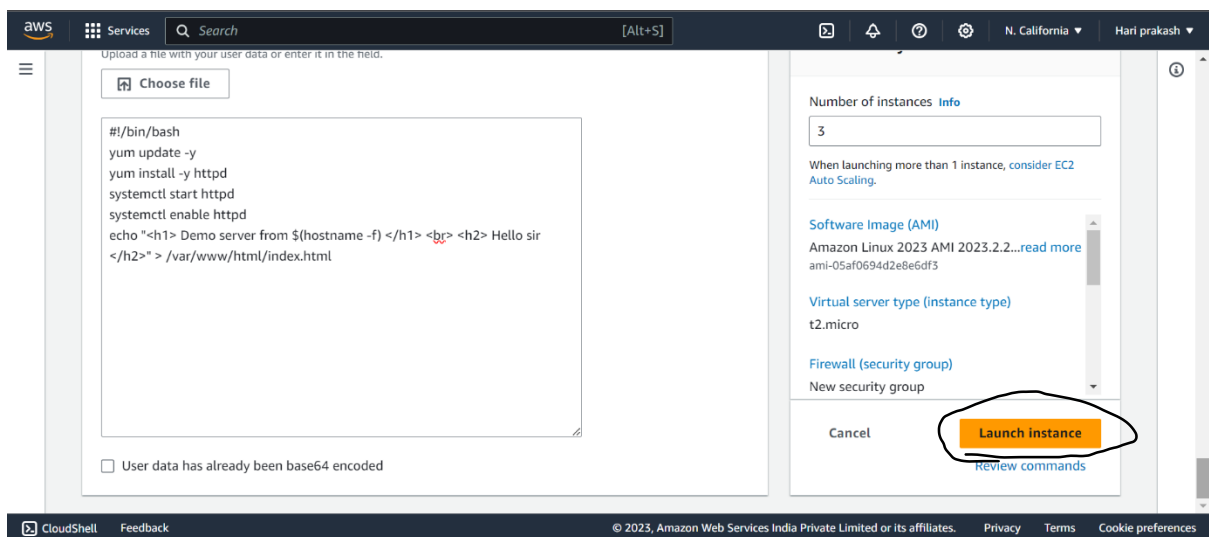
**6. And then select the instance type as t2.micro for the memory as 1 GIB and then we enter the 1 as a cpu memory**



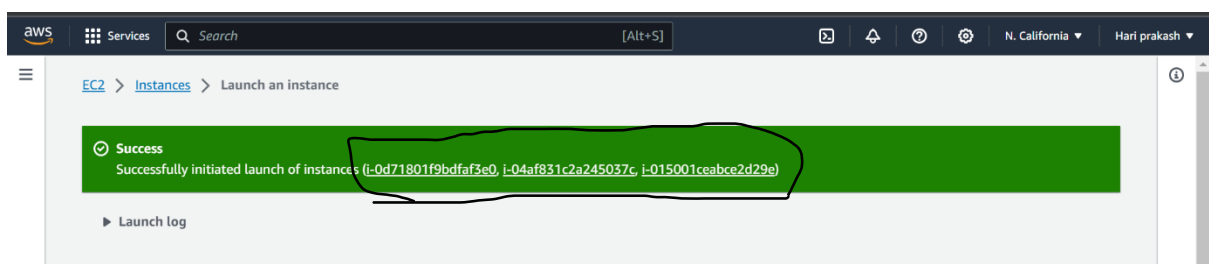
**7. In that we create security group and then we allow SSH traffic form and then allow HTTP traffic form and in the no of instance select as 3**



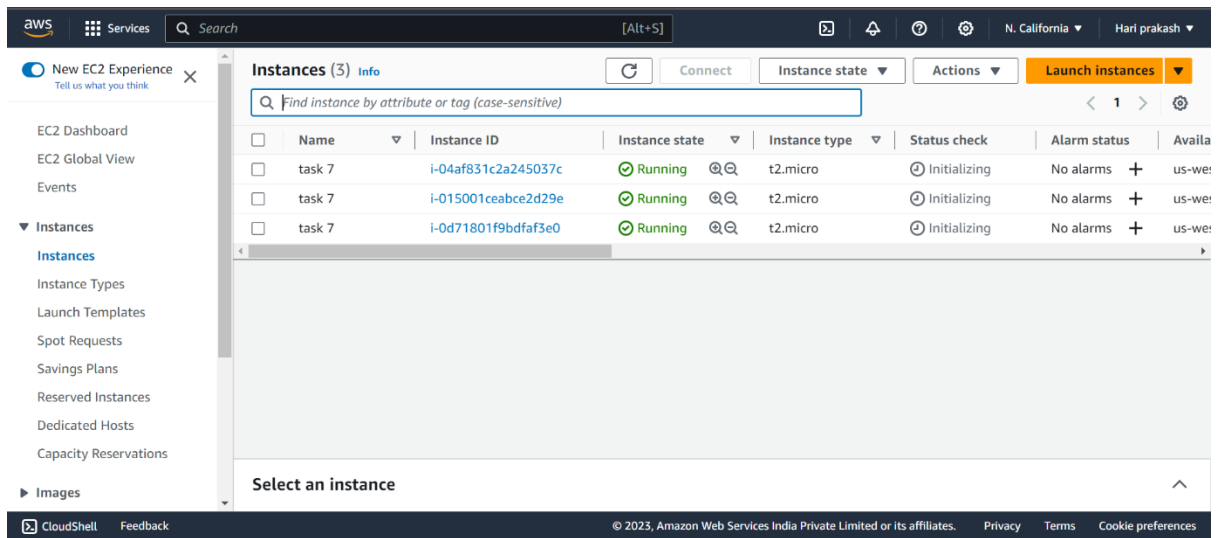
8. And then select the configure storage as default



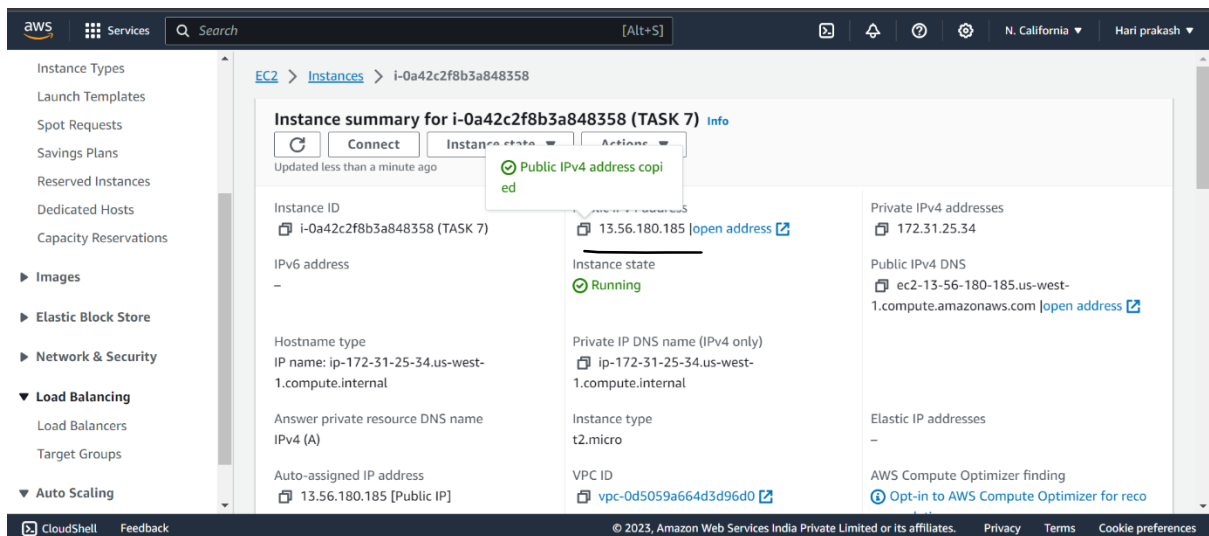
10. And in the advance details upload the code that we copied and then paste in that field and we launch the instance.



11. In that we launch the instance then we successfully launched our instances



12.And we see that task 7 we launched the instance



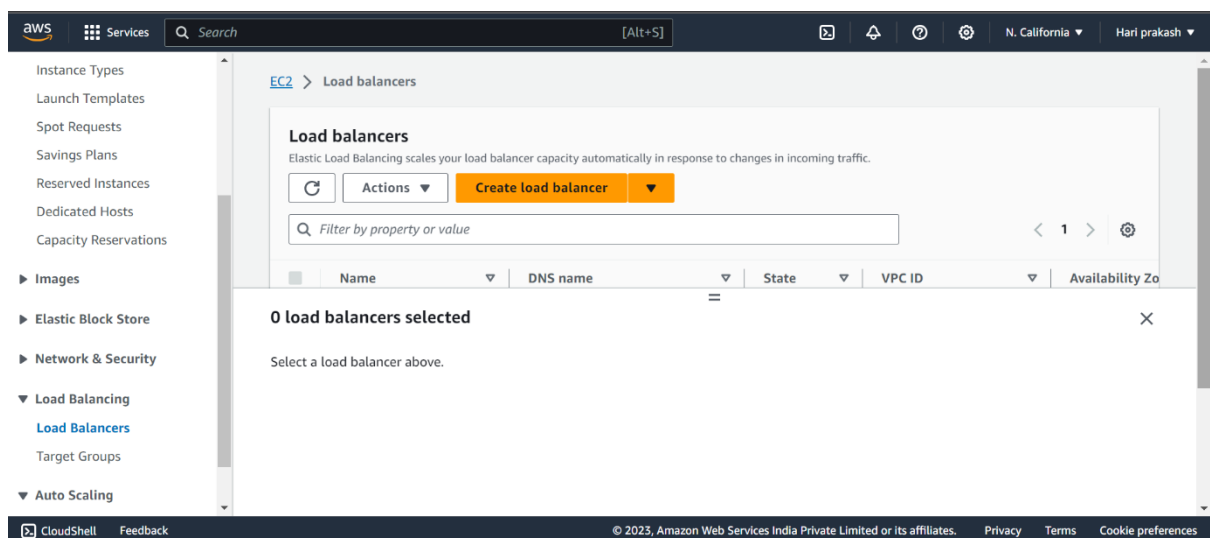
13.And then copied the private IPv4 and then paste them in the new tab

---

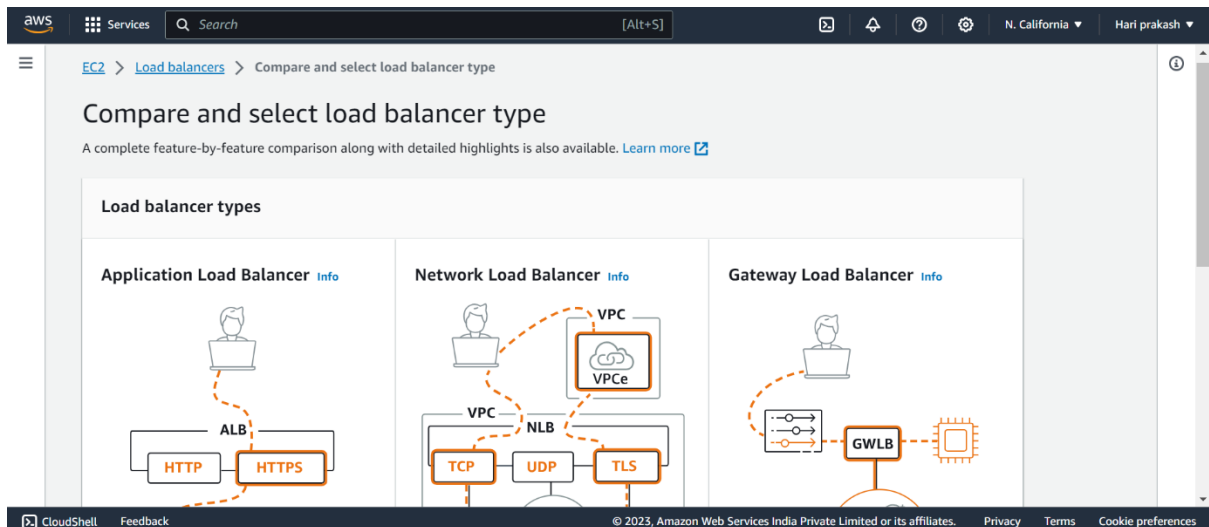
Demo server from ip-172-31-25-34.us-west-1.compute.internal

Hello sir

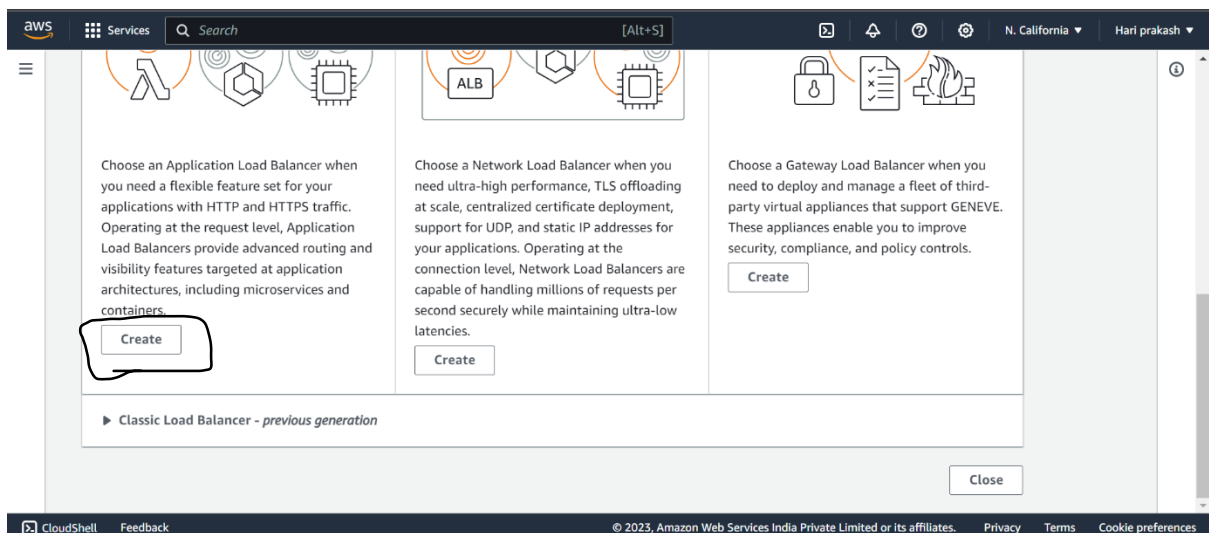
14. Here get that the Hello sir in that new tab after pasting that IPv4 address



15. From that we click the load balancing we click the Load balancer and then we click the Load balancer



16. After that create the load balancer we get the above slide



17. In that we click the Application Load Balancer and then click the create button

**Basic configuration**

**Load balancer name**  
Name must be unique within your AWS account and can't be changed after the load balancer is created.  
  
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.

**IP address type** [Info](#)  
Select the type of IP addresses that your subnets use.  
☒ **IPv4**  
Recommended for internal load balancers.  
☐ **Dualstack**  
Includes IPv4 and IPv6 addresses.

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**18. In that we get the basic configuration and we enter the Load balancer name as Task7ALB and then click the schema as a Internet-facing. We select the IP address type as IPv4**

**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](#).  
  
IPv4: 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-west-1b (usw1-az3)**  
**Subnet**

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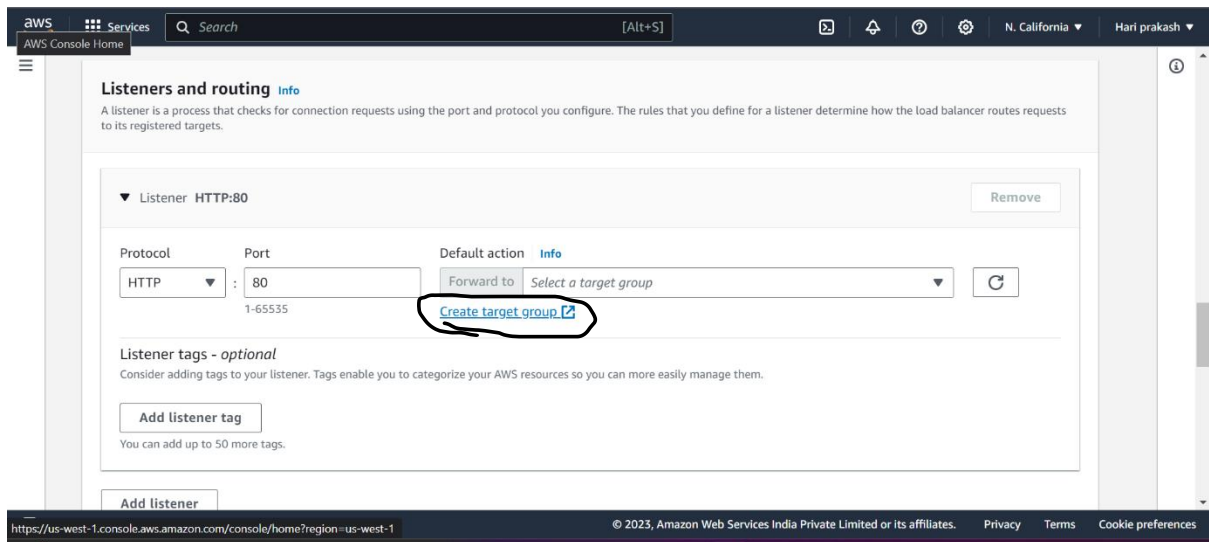
**19. After that network mapping and then in VPC we select the VPC And then select the mapping zone**

**Security groups** [Info](#)  
A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can [create a new security group](#).

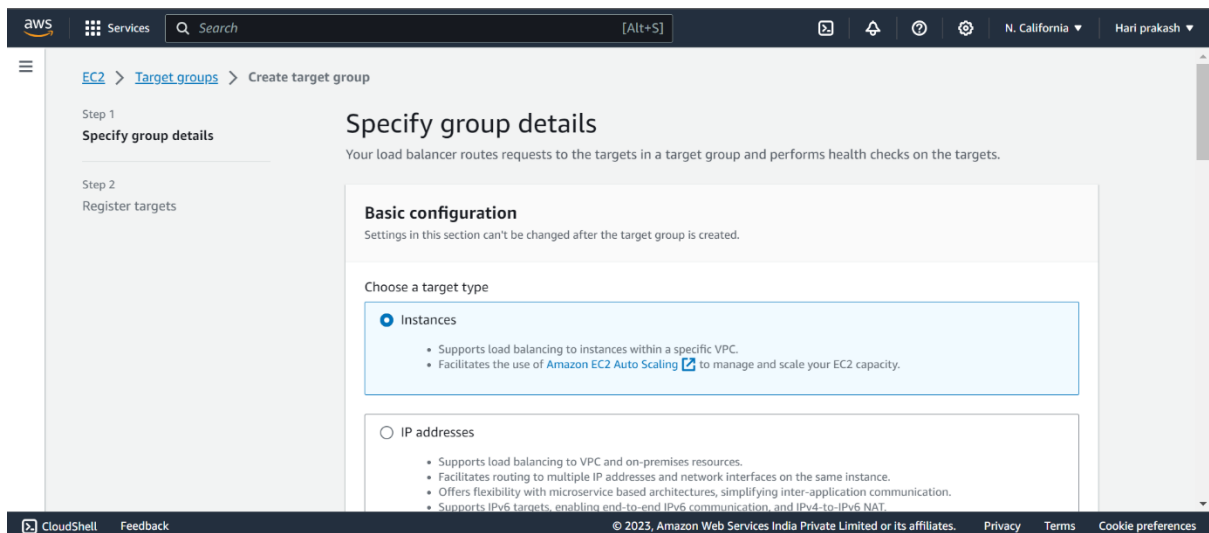
**Security groups**  
  
☒ **default**  
sg-0188dbd3aa793f917 VPC: vpc-0d5059a664d3d96d0  
☒ **launch-wizard-2**  
sg-040e6ea43c9770e27 VPC: vpc-0d5059a664d3d96d0

**20. In that we select the security group as a both default and then the Launch wizard-2**





21. In that Listeners and routing we select the protocol as a HTTP and then the port as 80 and then we create the target group



22. This slide is that we select the basic configuration as a Instances

Target group name

newtargetgrp

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol

HTTP

Port

80

1-65535

IP address type

Only targets with the indicated IP address type can be included in this target group.

☒ IPv4

☐ IPv6

Each target you register must have an assigned primary IPv6 address. This is configured on the instances default network interface (eth0). [Learn more](#)

VPC

Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.

vpc-0d5059a664d3d96d0

IPv4: 172.31.0.0/16

**23. In that Target group name as a newtargetgrp and then select the IP address type as IPv4 and then select the VPC**

instances default network interface (eth0). [Learn more](#)

VPC

Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.

vpc-0d5059a664d3d96d0

IPv4: 172.31.0.0/16

Protocol version

☒ HTTP1

Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.

☐ HTTP2

Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.

☐ gRPC

Send requests to targets using gRPC. Supported when the request protocol is gRPC.

**24. And then we select the protocol version as a HTTP1**

but gRPC-specific features are not available.

☐ gRPC  
Send requests to targets using gRPC. Supported when the request protocol is gRPC.

### Health checks

The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol  
HTTP

Health check path  
Use the default path of "/" to ping the root, or specify a custom path if preferred.  
/  
Up to 1024 characters allowed.

Cancel **Next**

**25. In the Health Checks we enter the health check protocol as HTTP**

Up to 1024 characters allowed.

► **Advanced health check settings**

### Attributes

① Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.

► **Tags - optional**  
Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.

Cancel **Next**

**26. After Finishing the steps then click the next button**

EC2 > Target groups > Create target group

Step 1  
[Specify group details](#)

Step 2  
**Register targets**

### Register targets

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

**Available instances (3/3)**

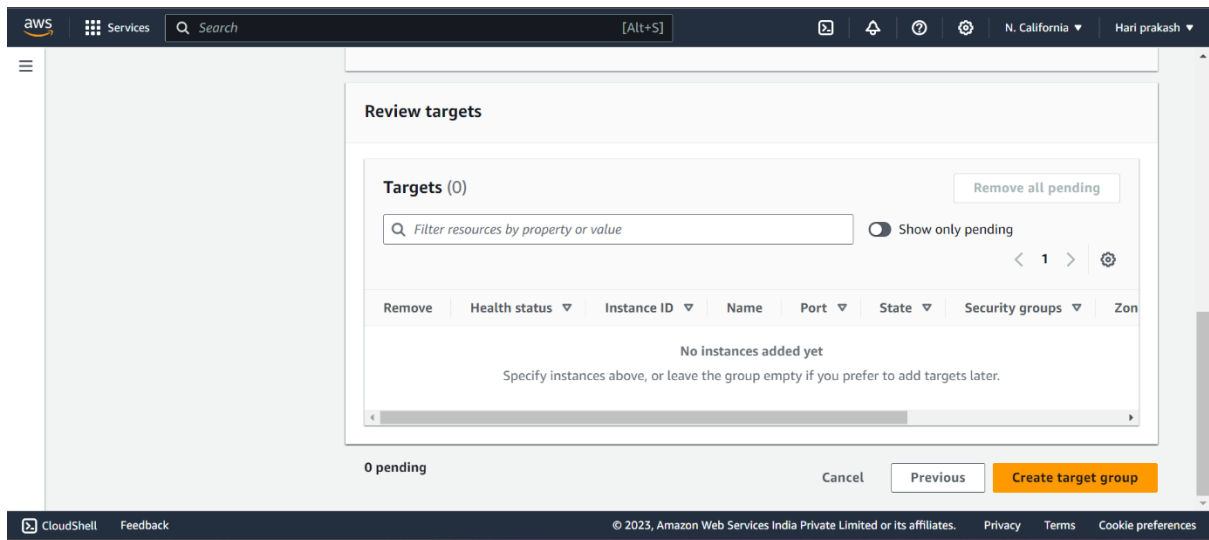
Filter resources by property or value

<input checked="" type="checkbox"/>	Instance ID	Name	State	Security group
<input checked="" type="checkbox"/>	i-0a42c2f8b3a848358	TASK 7	Running	launch-wizard
<input checked="" type="checkbox"/>	i-003200127a8123952	TASK 7	Running	launch-wizard
<input checked="" type="checkbox"/>	i-08363c81dd7db0256	TASK 7	Running	launch-wizard

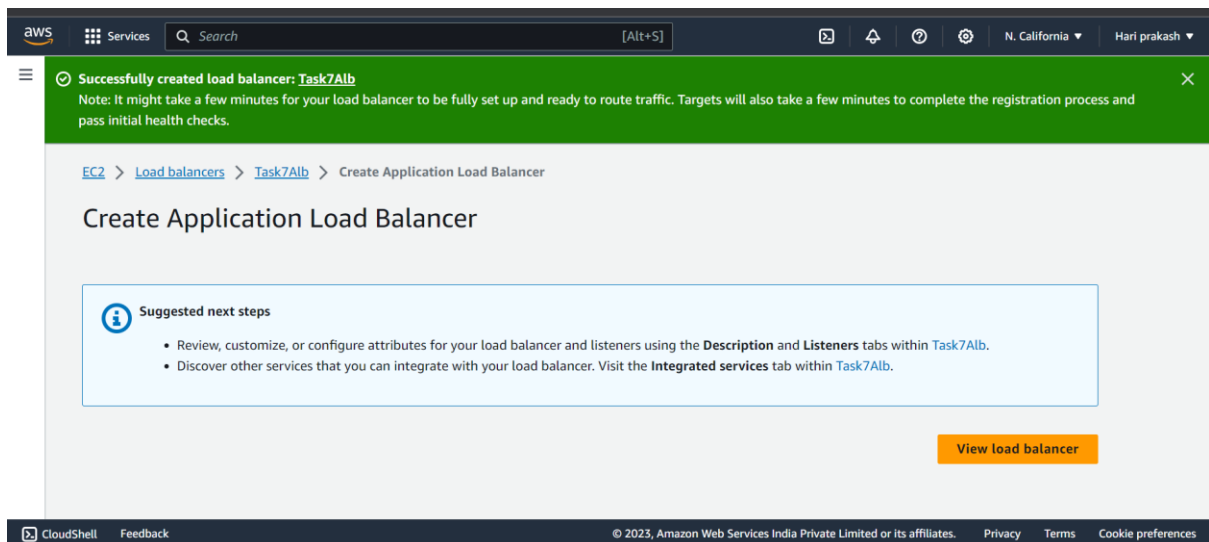
3 selected

Cancel **Next**

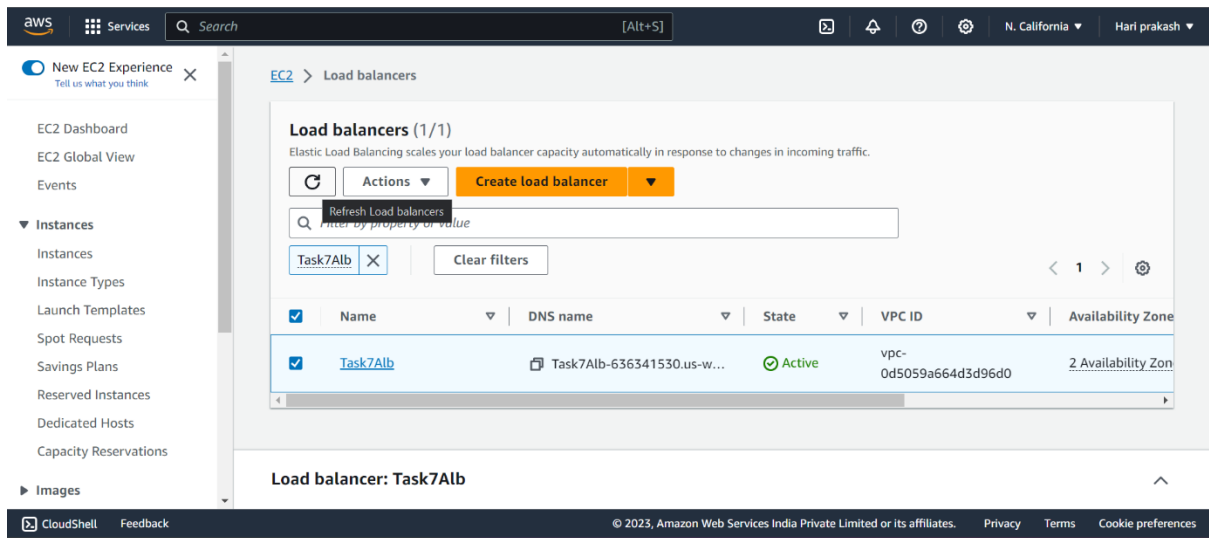
**27. In that we can able to see the available instances and then select the instance id**



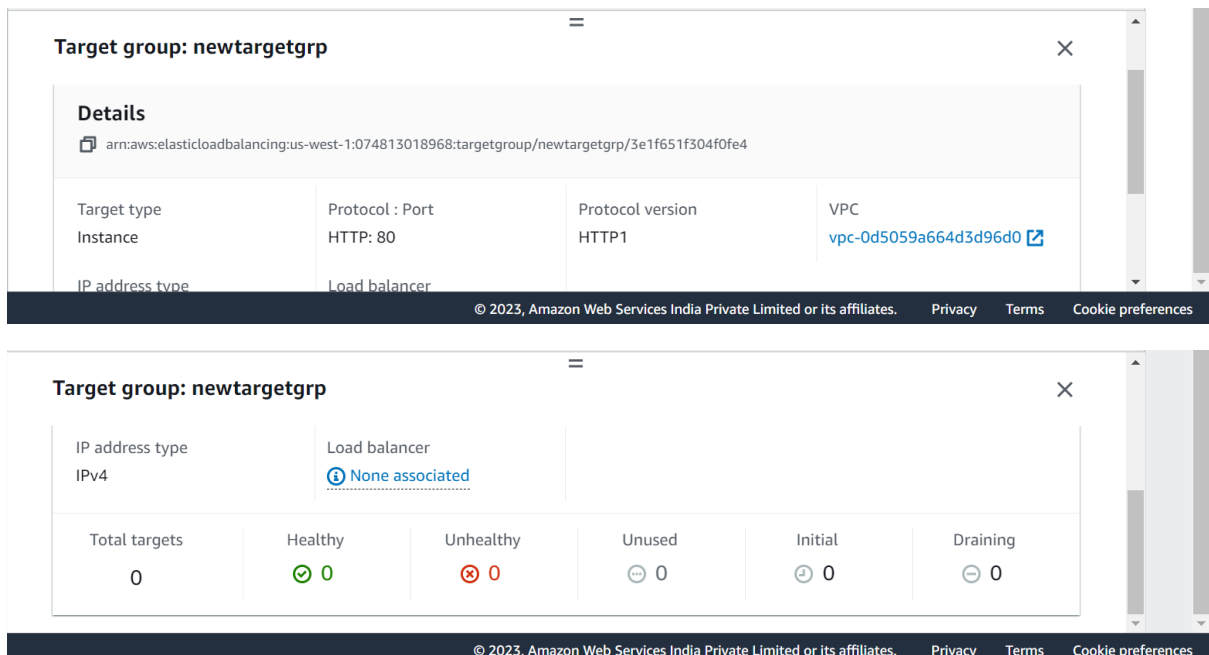
28. In that below we can see that we are able to create target group and then click that



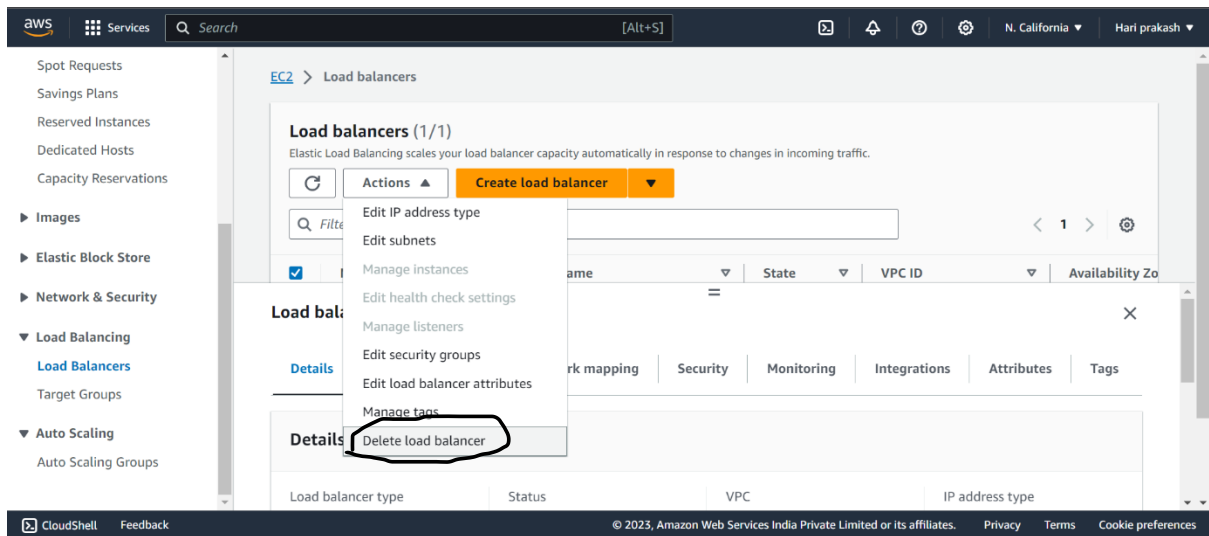
29. From that green line we can see that we successfully created load balancer as a Task7ALB and then click load balancer



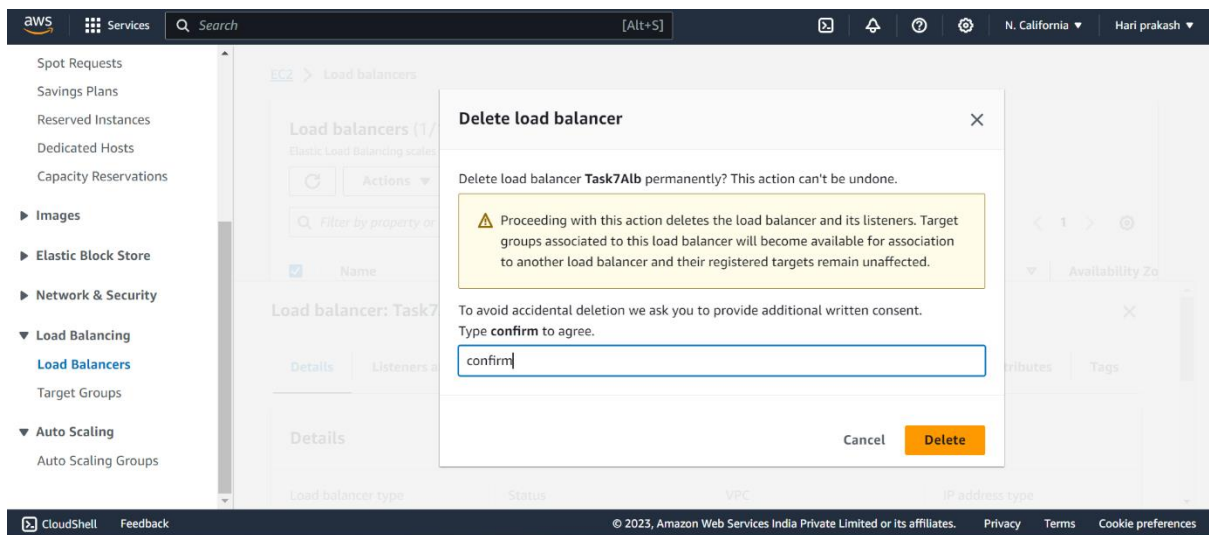
30. From that we click the view load balancer we see that Task7ALB and then state as Active



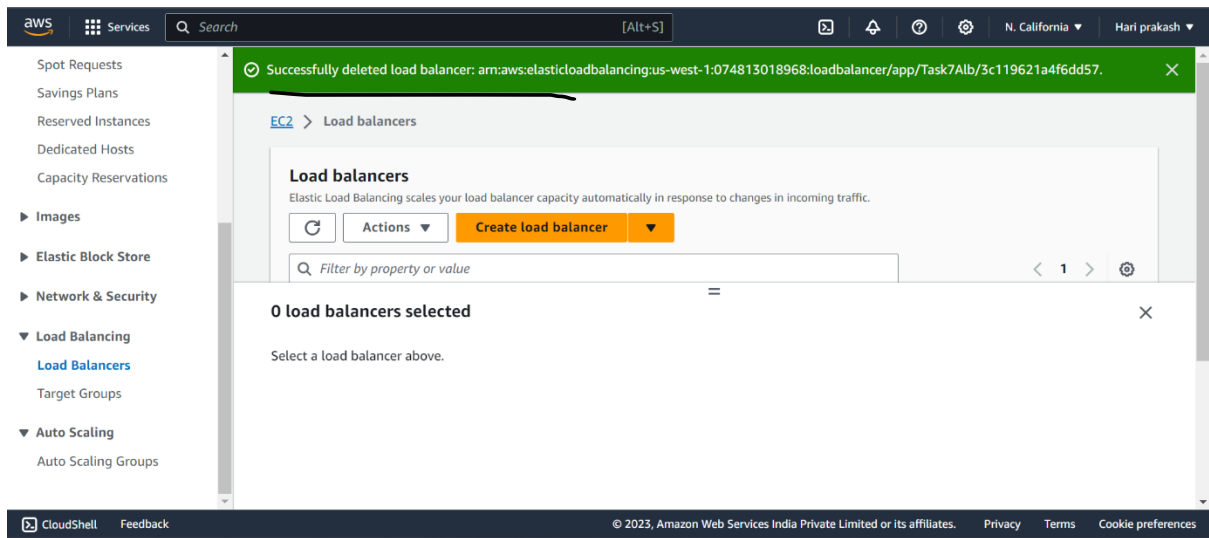
31. From the above slide we can see that our Target group is in Healthy



**32.After that creating the Load balancer we just delete the load balancer**



**33.In that tab we just type as confirm to delete the Load balancer and then click the Delete**



**34. In that Load balancers we can able to see that successfully deleted load balancer in the below of search.**