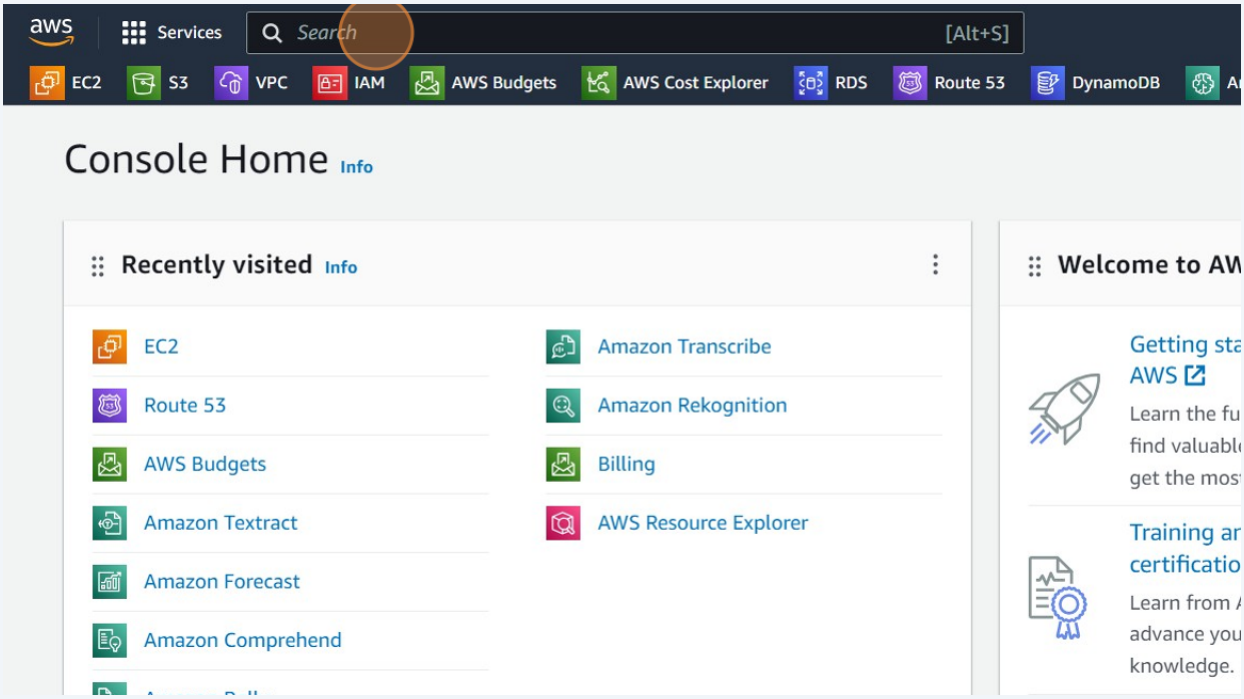
Application Load Balancer (ALB)

This guide provides step-by-step instructions on how to set up an Application Load Balancer (ALB) on AWS. It includes detailed instructions on launching instances, creating security groups and target groups, and configuring the ALB. If you need to distribute incoming traffic across multiple instances, this guide will help you set up an ALB efficiently.

This guide was created by Nijat Hajiyev

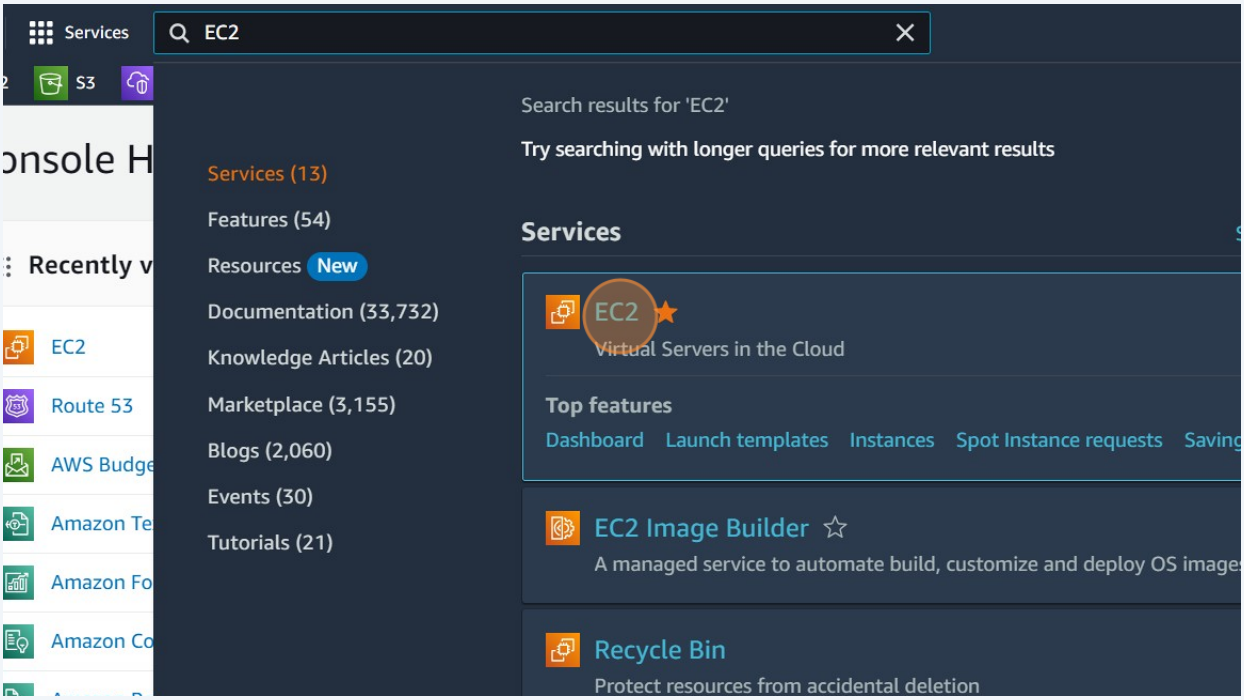
1 Navigate to aws.amazon.com

2 Click the "Search" field.

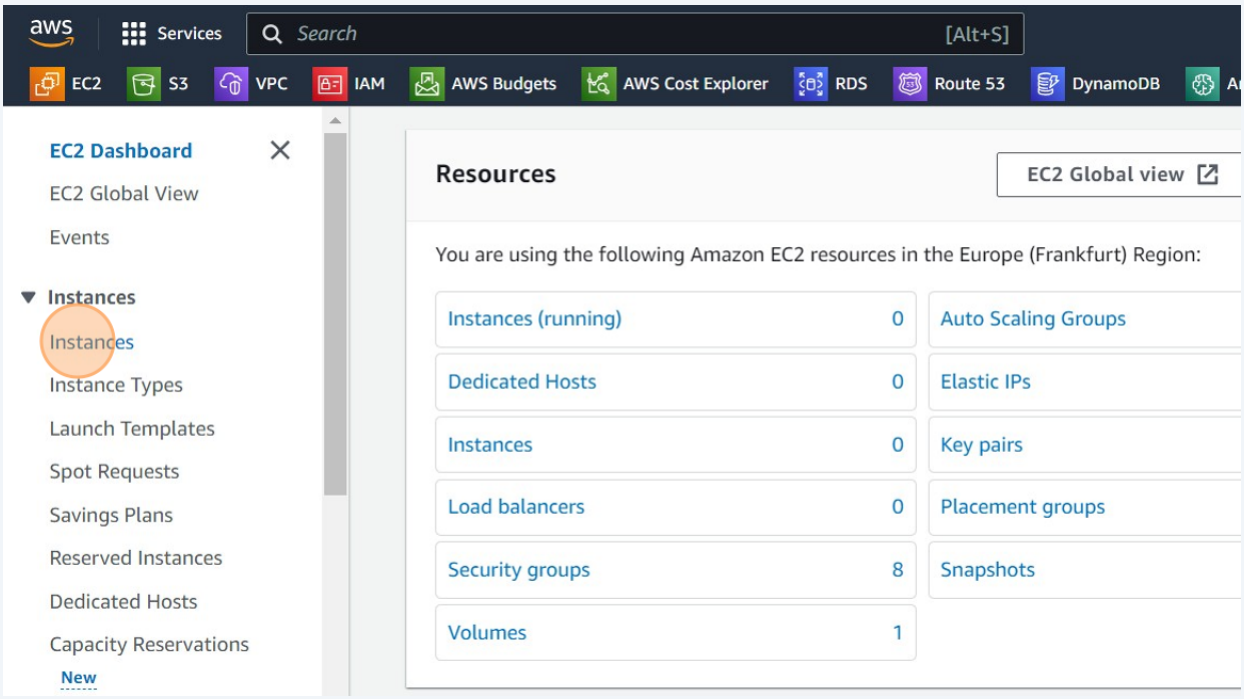


3 Type "EC2"

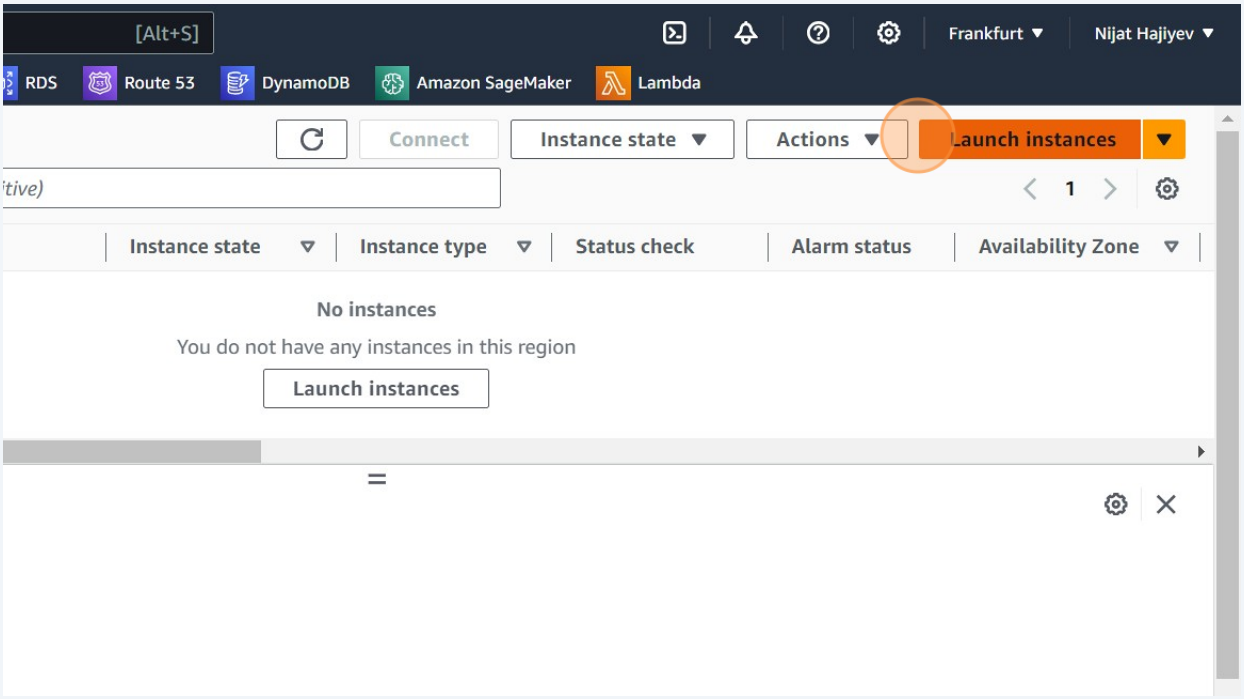
4 Click "EC2"



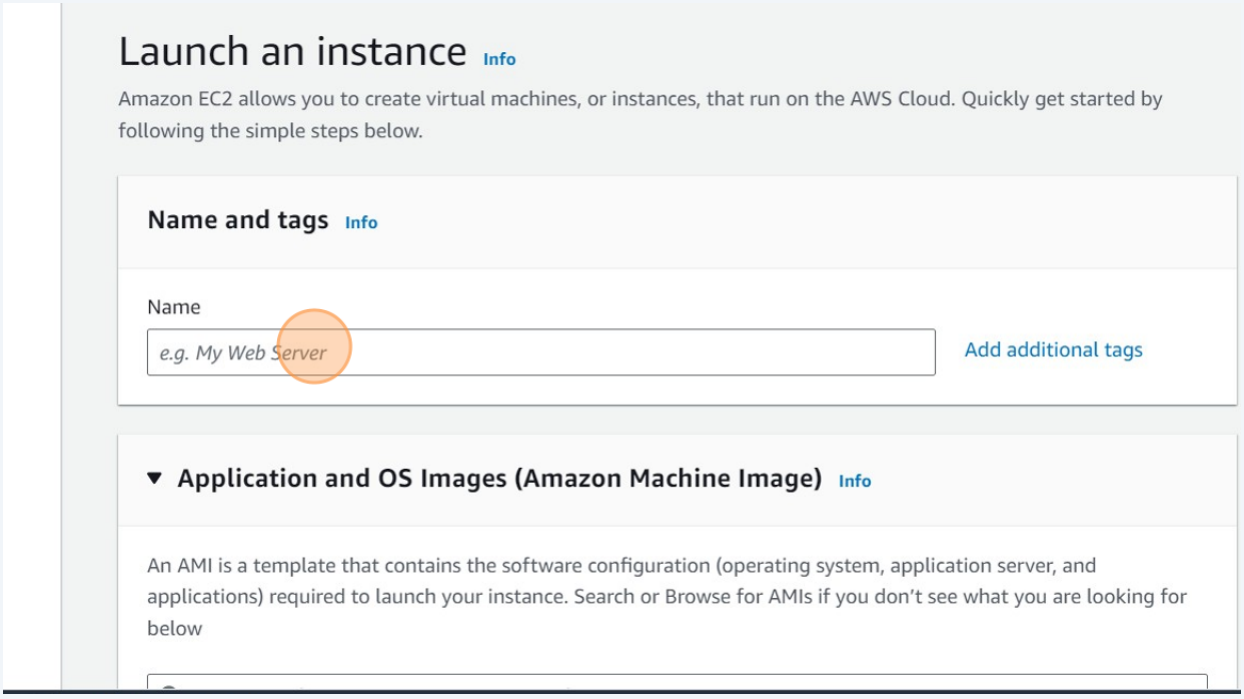
5 Click "Instances"



6 Click "Launch instances"

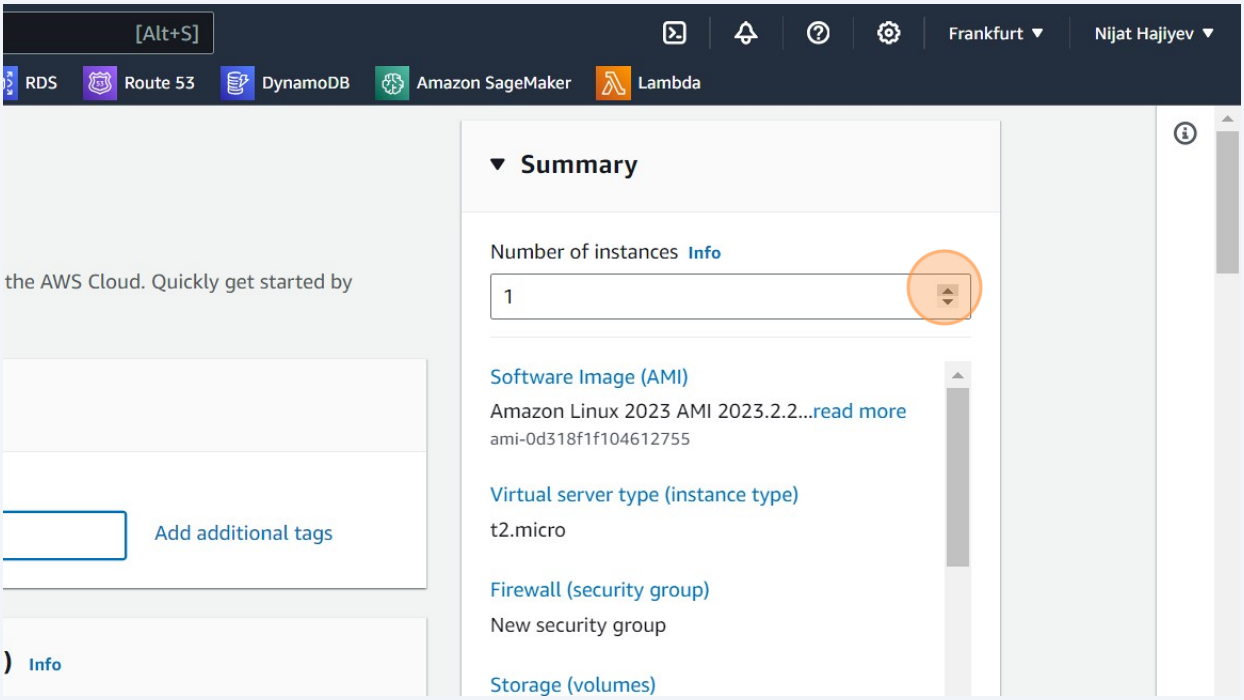


7 Click the "Name" field.

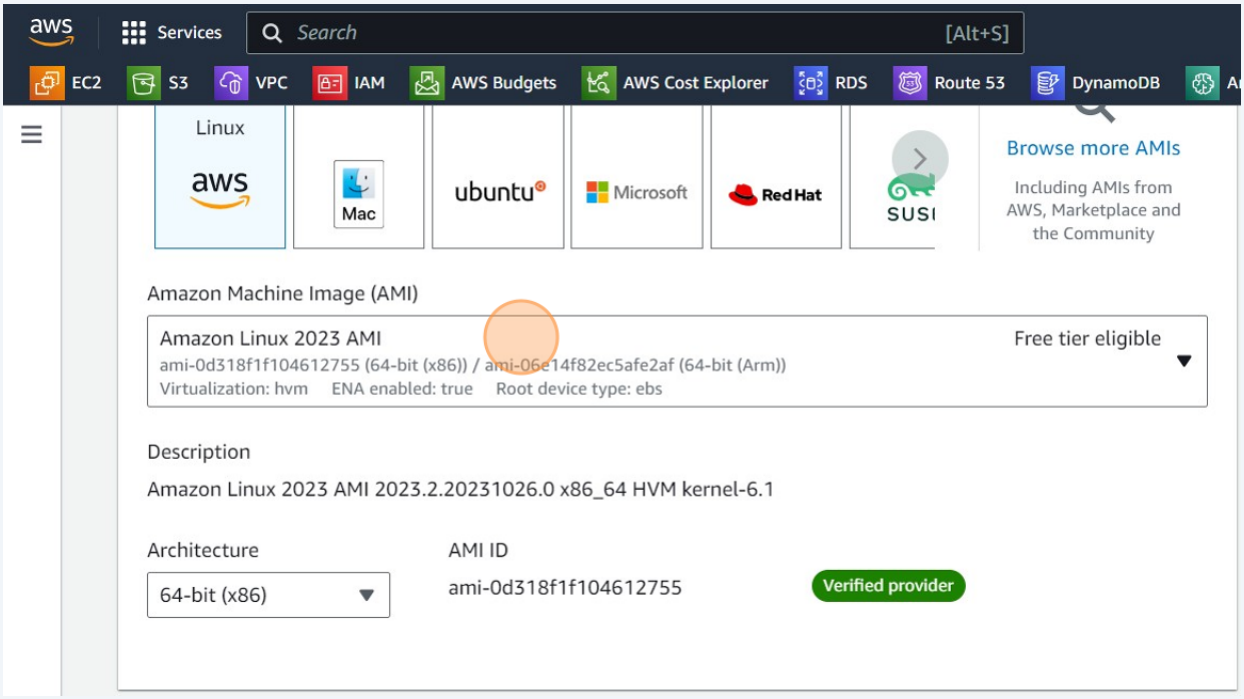


8 Type "Instance-1"

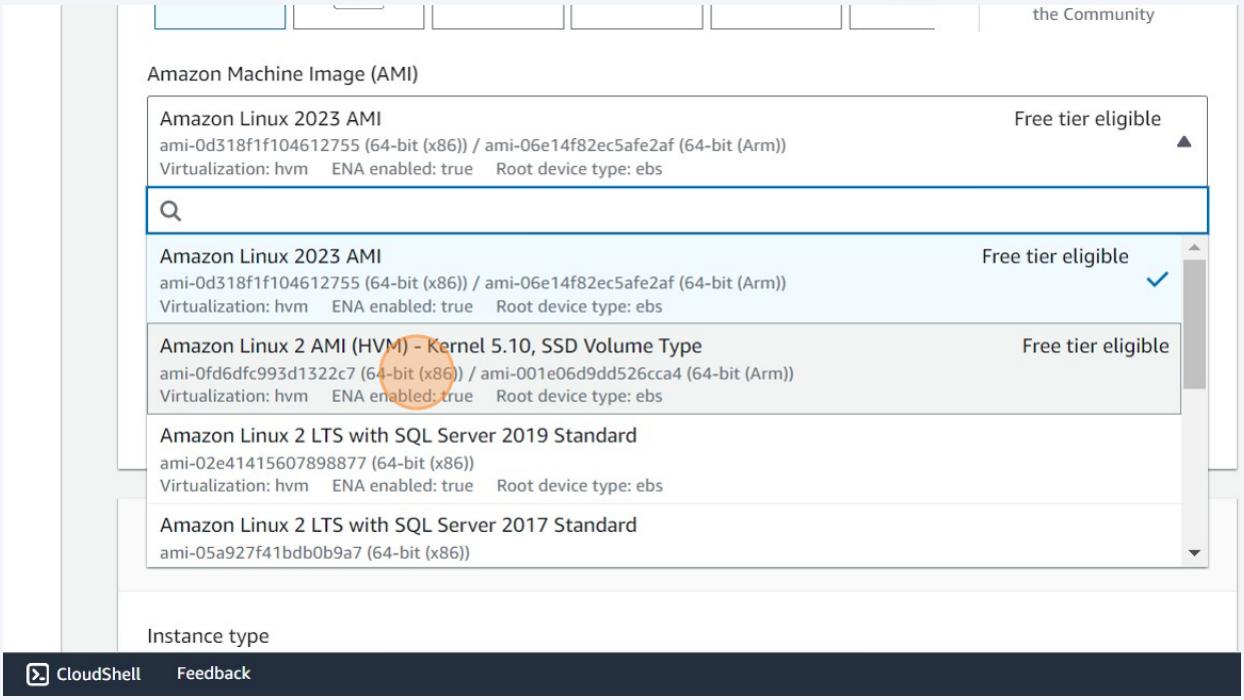
9 Click the "Number of instances Info:" field. Make "2"



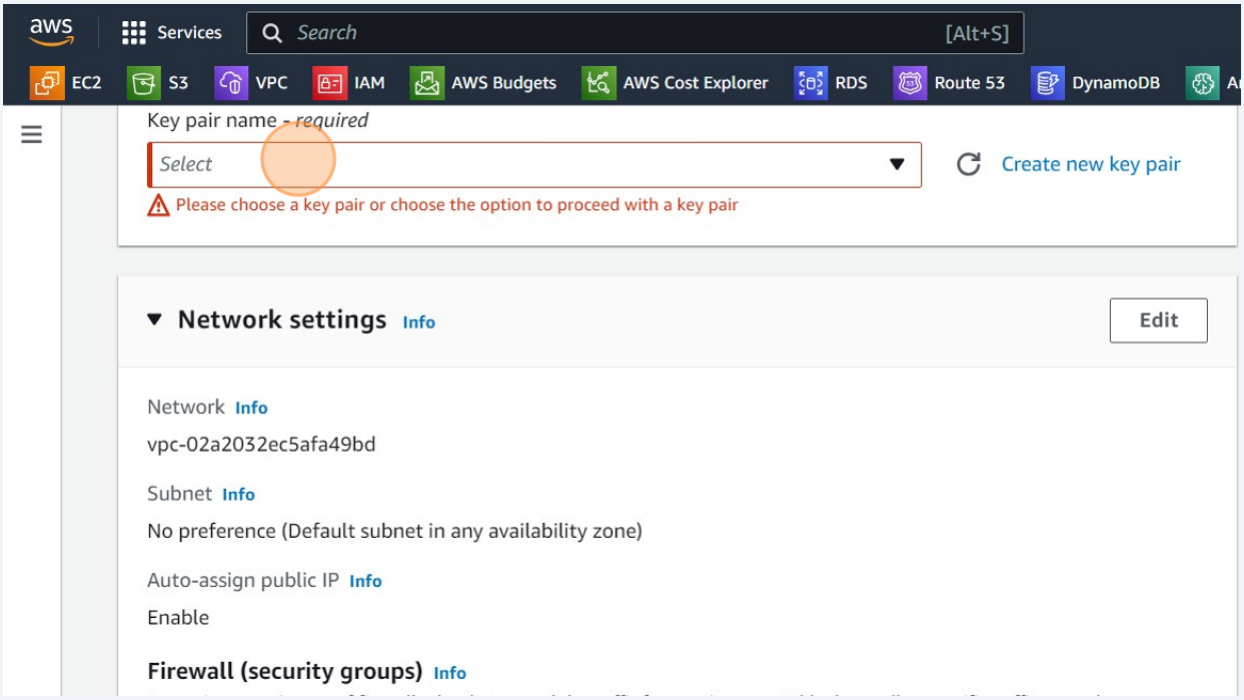
10 Click "Free tier eligible"



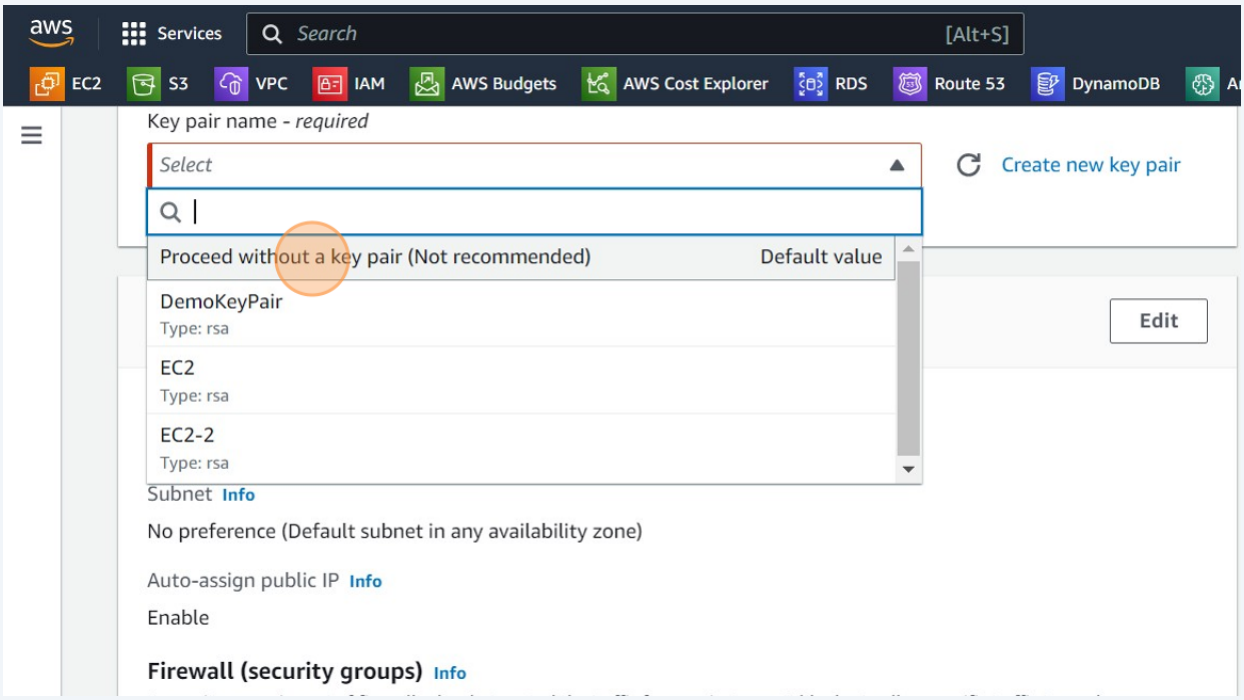
11 Click "Amazon Linux 2 AMI(HVM) - Kernel 5.10, SSD Volume Type"



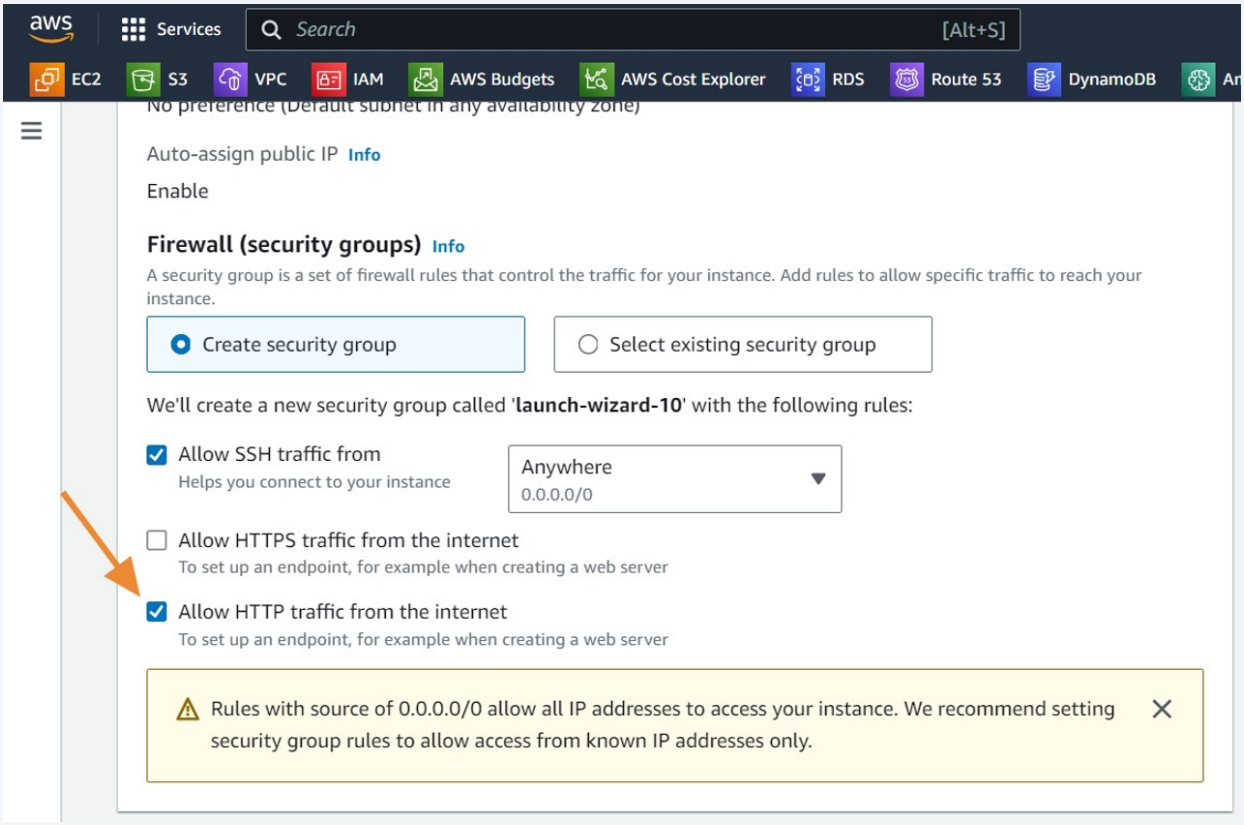
12 Click "Select"



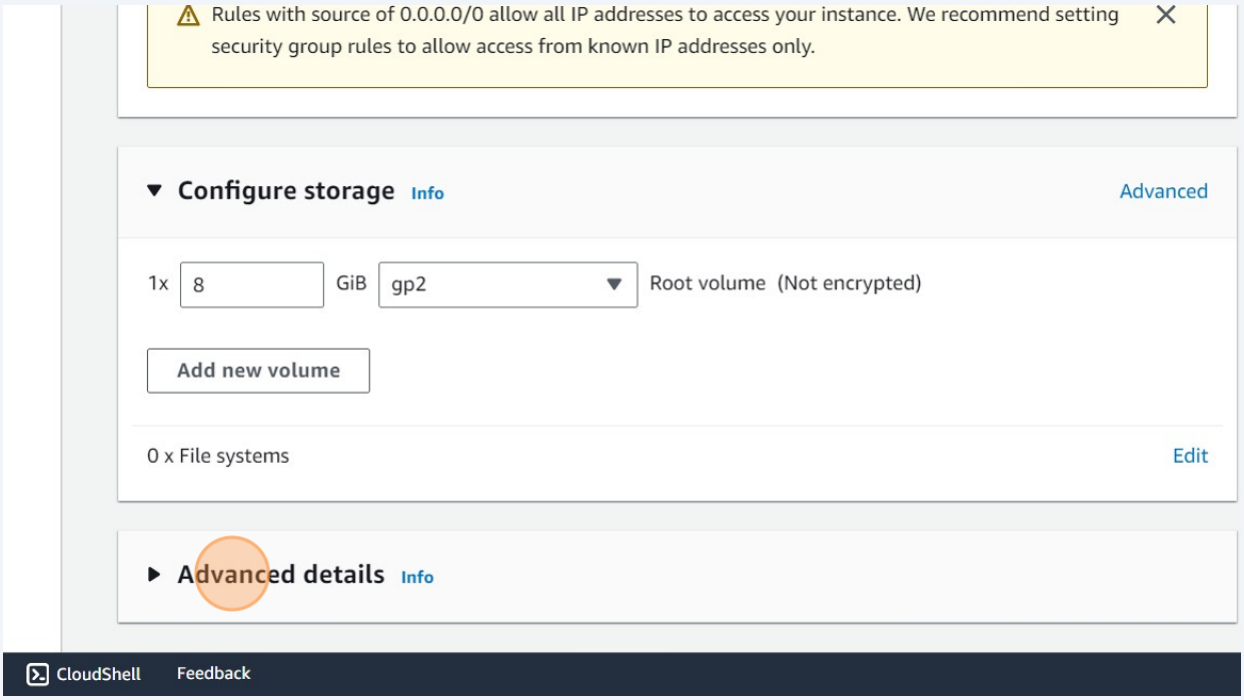
13 Click "Proceed without a key pair (Not recommended)"



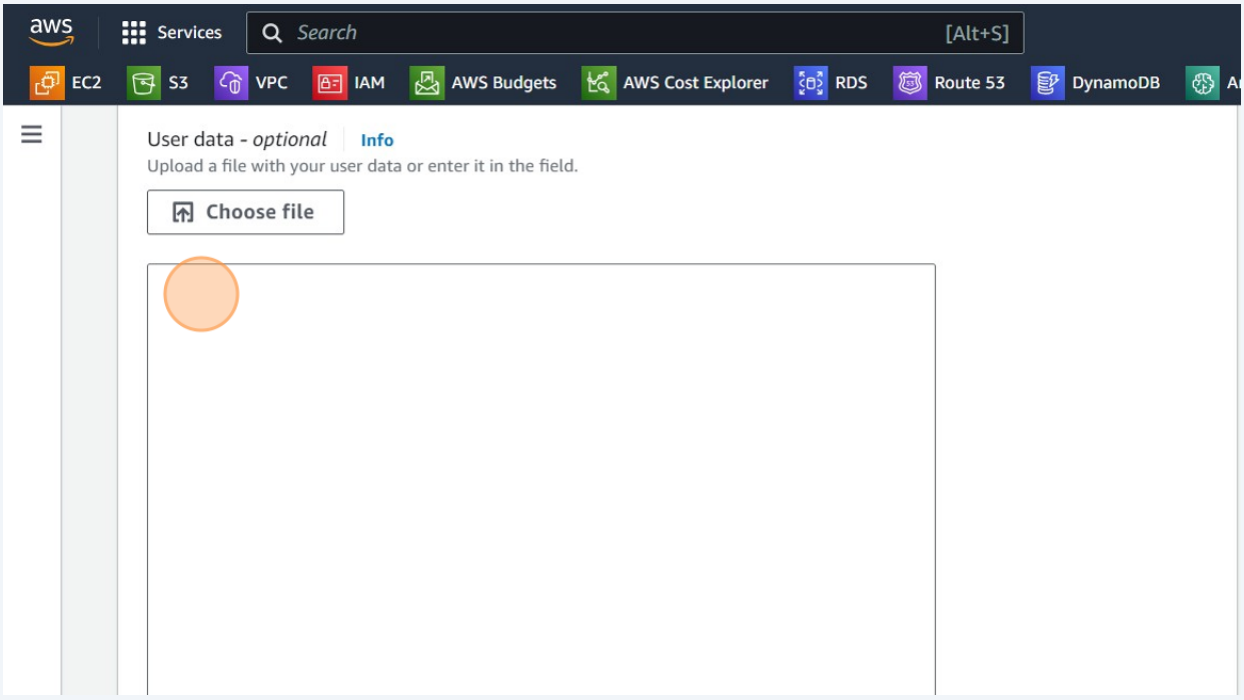
14 Allow HTTP traffic from the internet



15 Click "Advanced details"



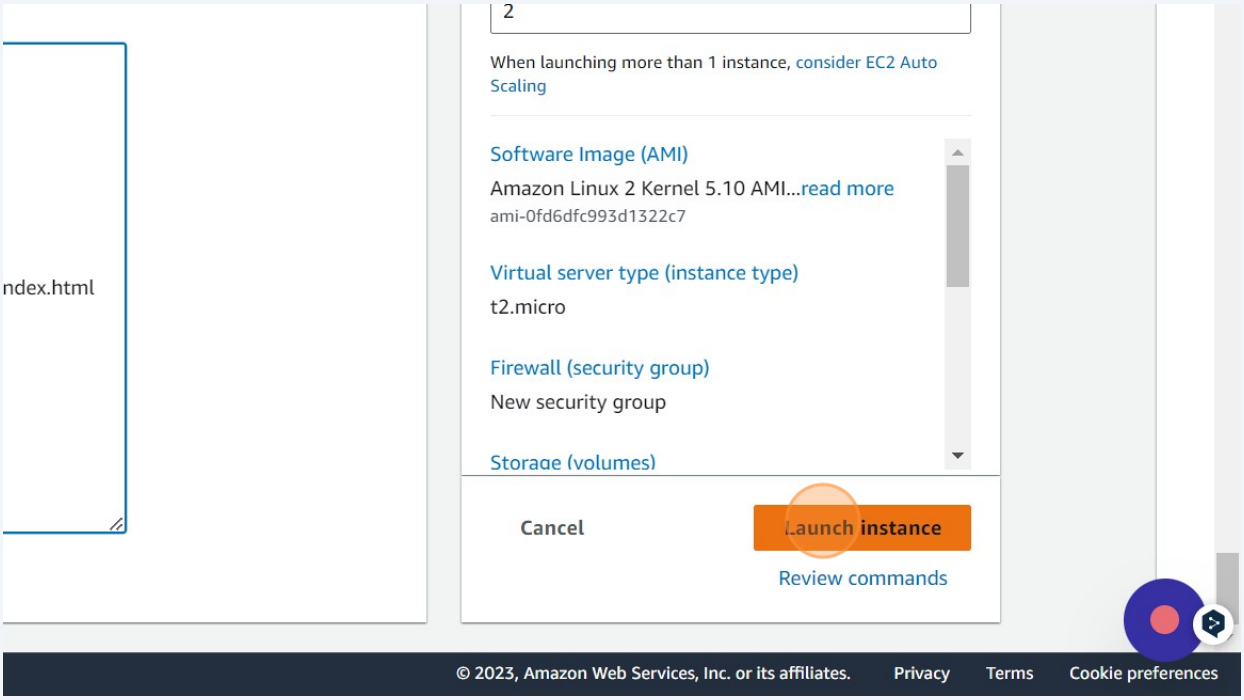
16 Click the "User data - optional" field.



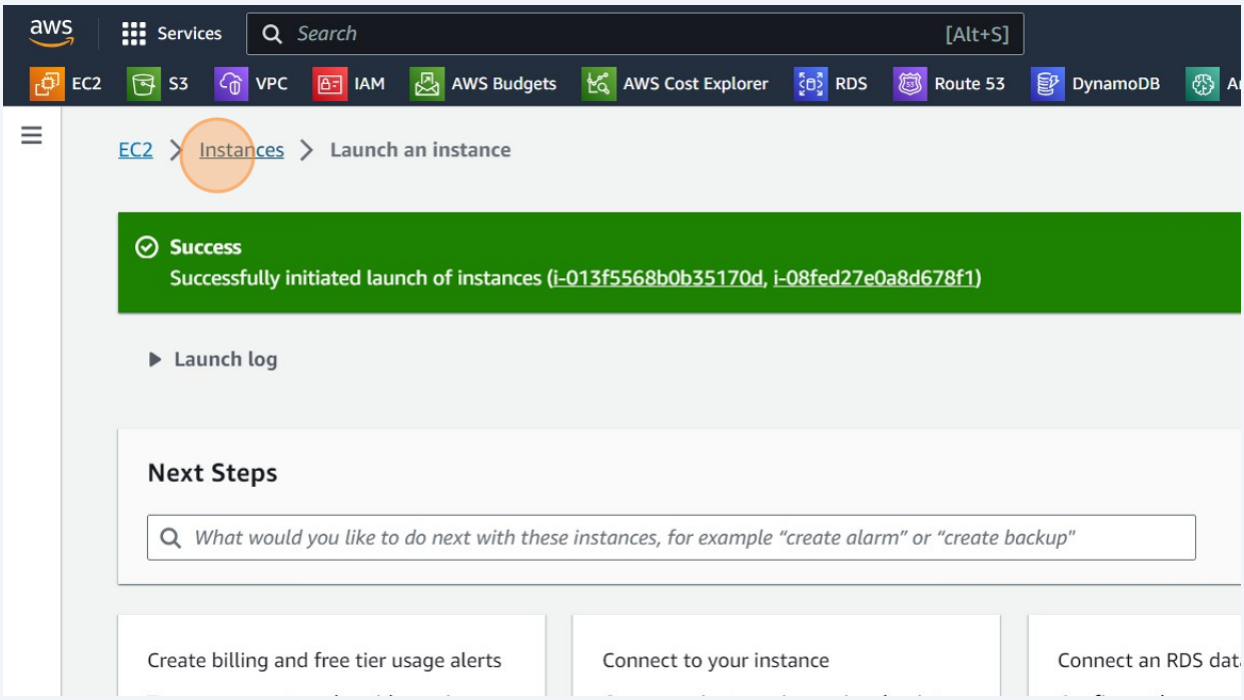
17 Paste:

```
#!/bin/bash
#Use this for your user data (script from top to bottom)
#install httpd (Linux 2 version)
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd
echo "<h1>Hello World from $(hostname -f)</h1>" > /var/www/html/index.html
```

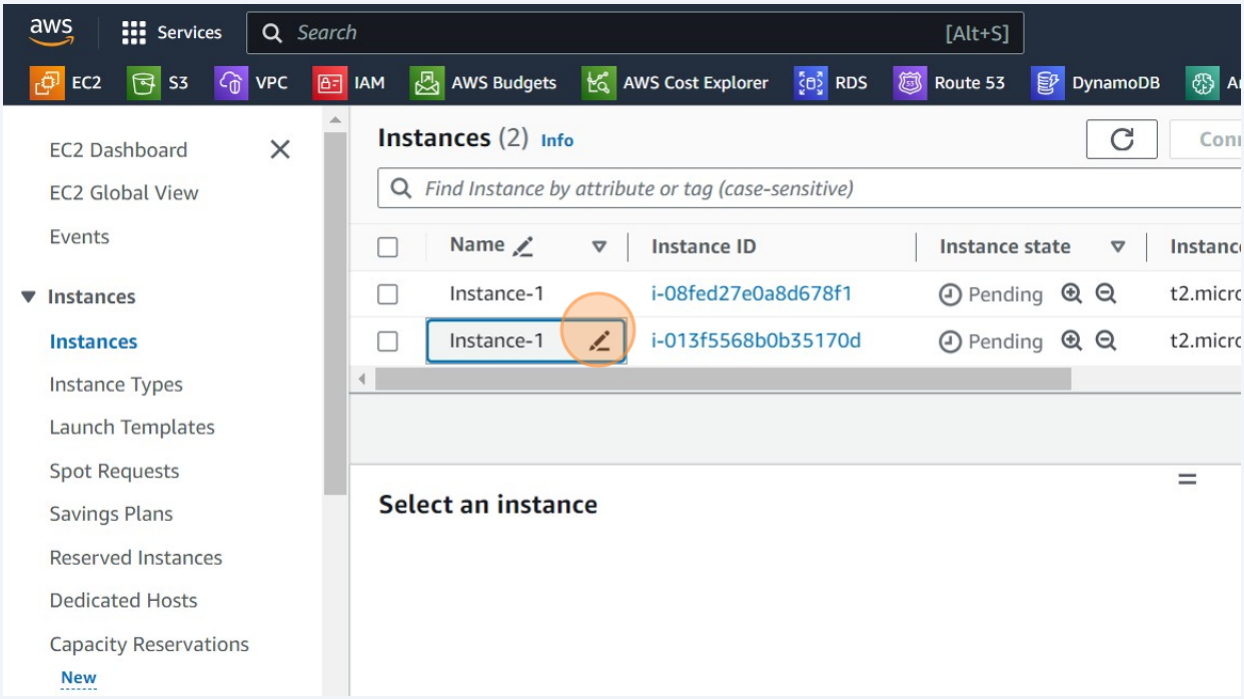
18 Click "Launch instance"



19 Click "Instances"

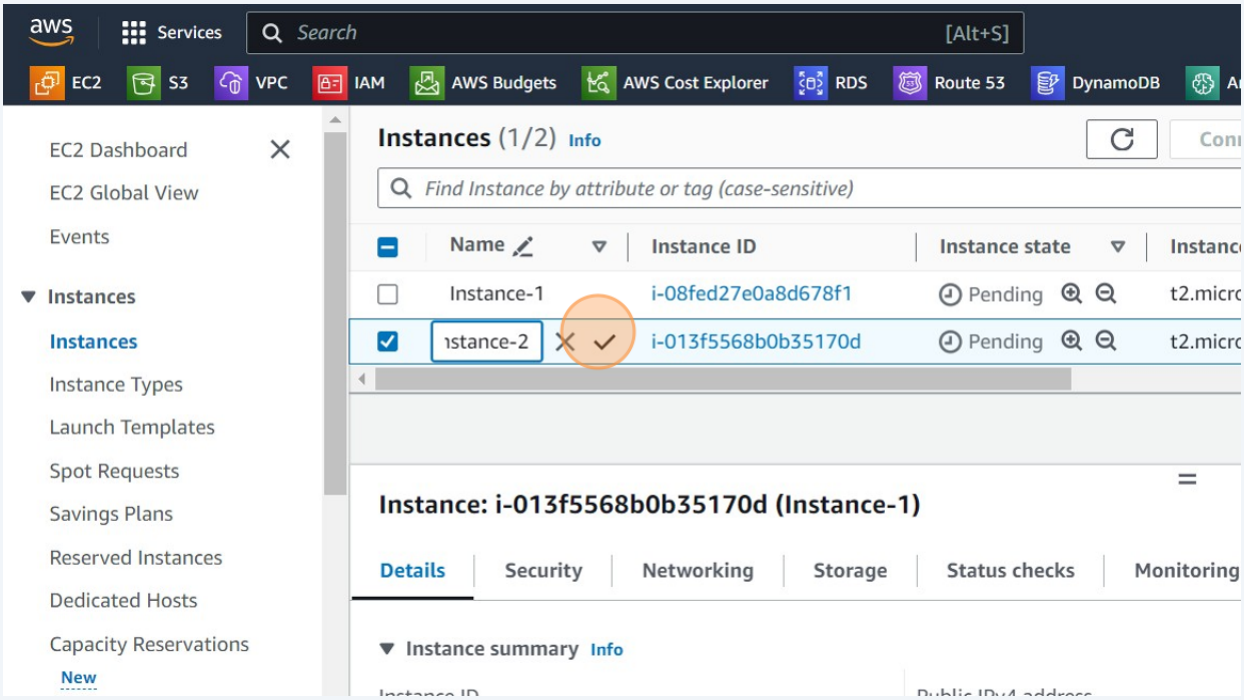


20 Click here.

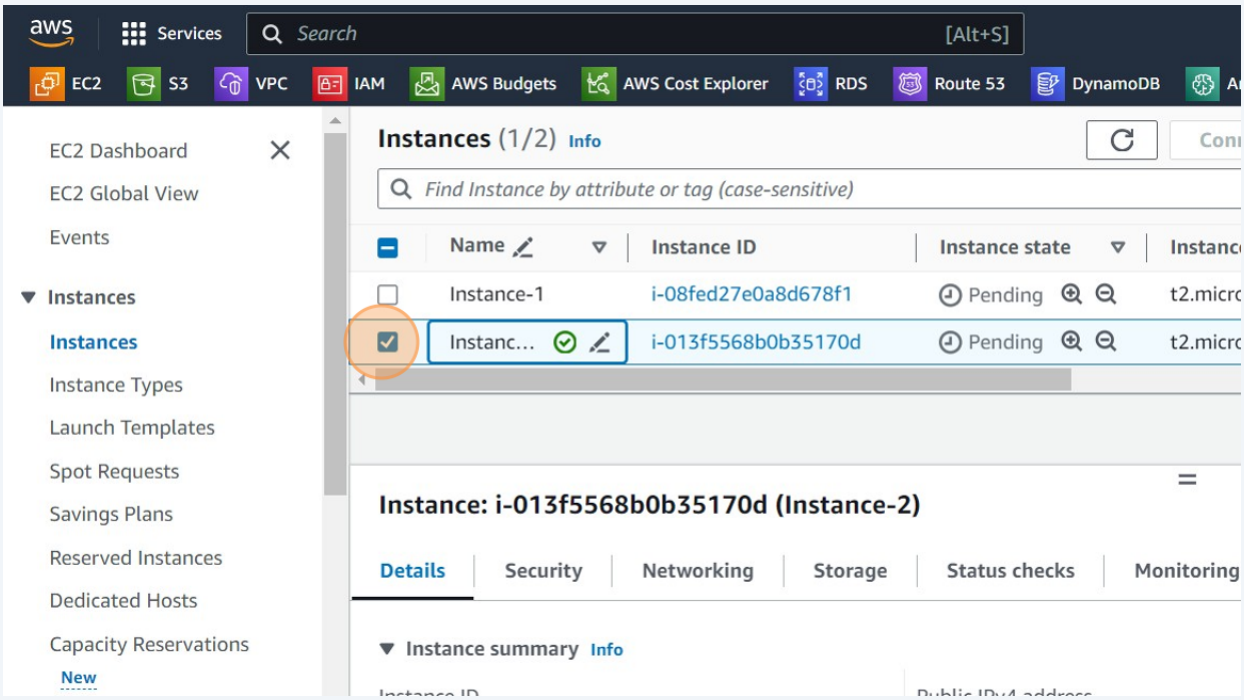


21 Type " **Backspace** 2"

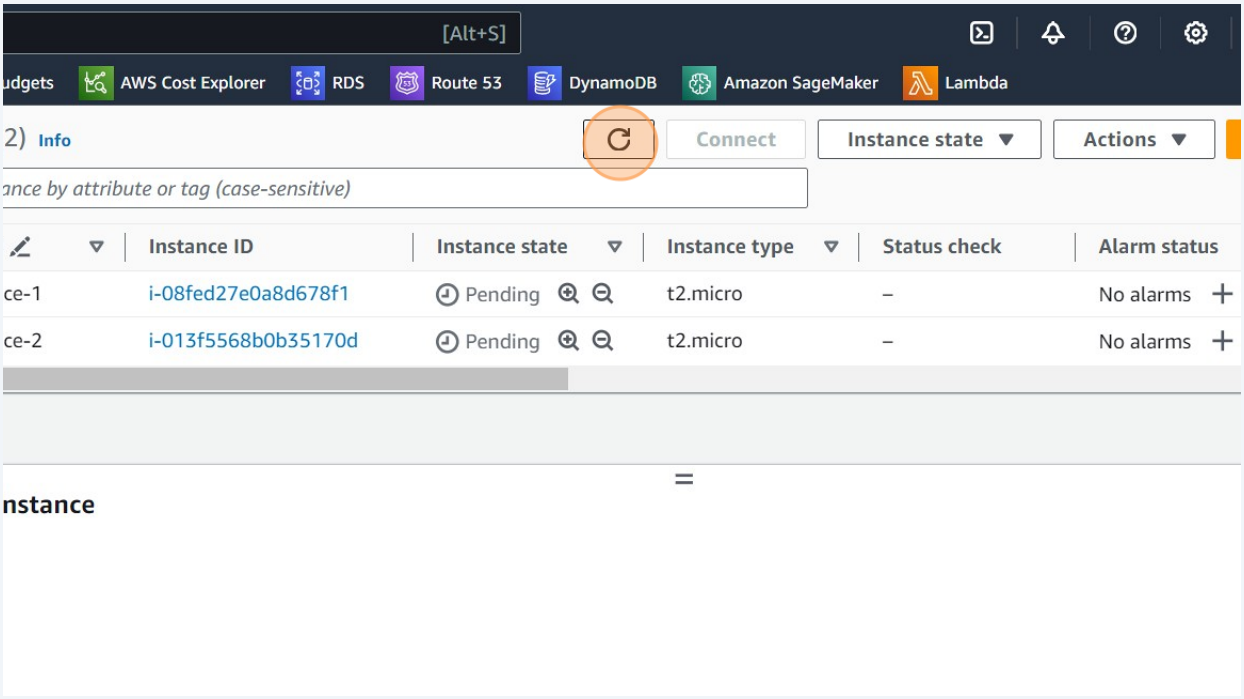
22 Click here.



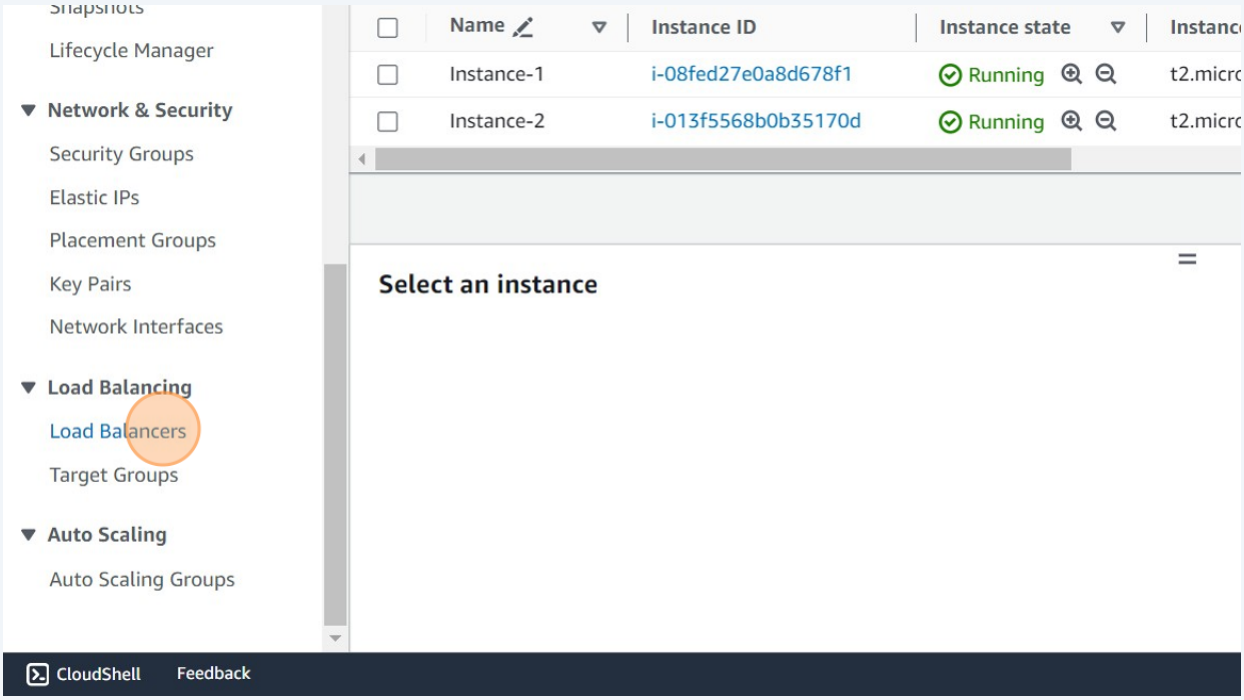
23 Click this checkbox.



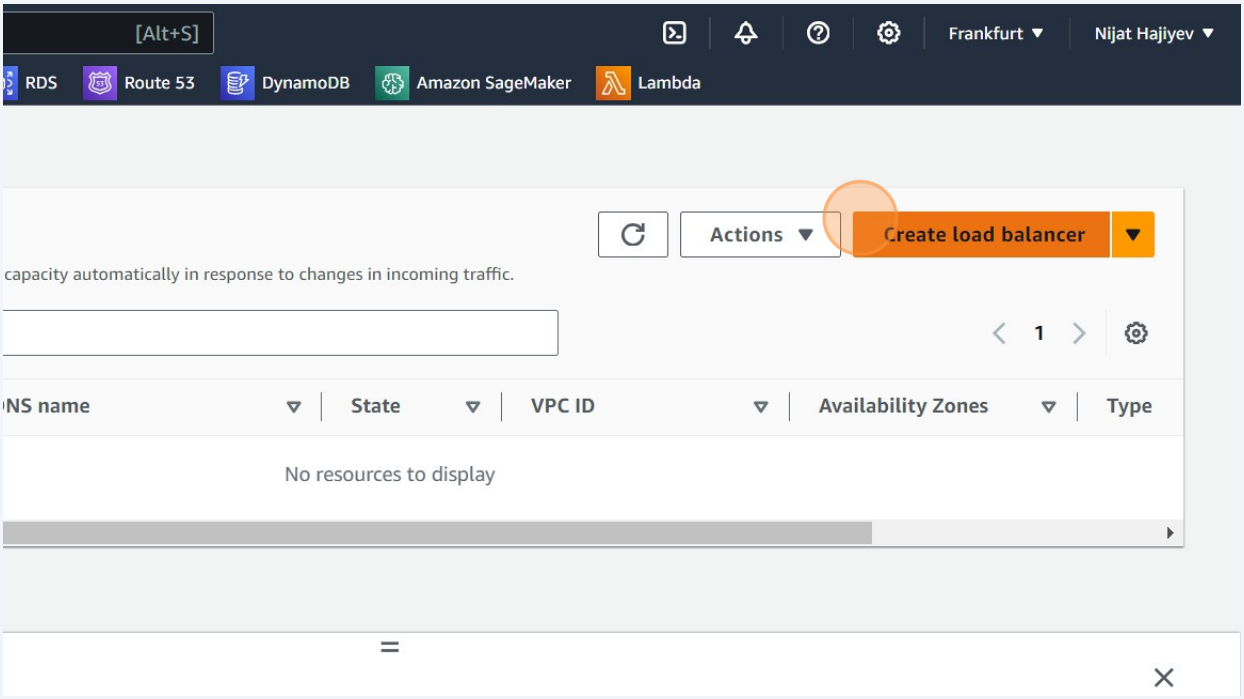
24 Click here.



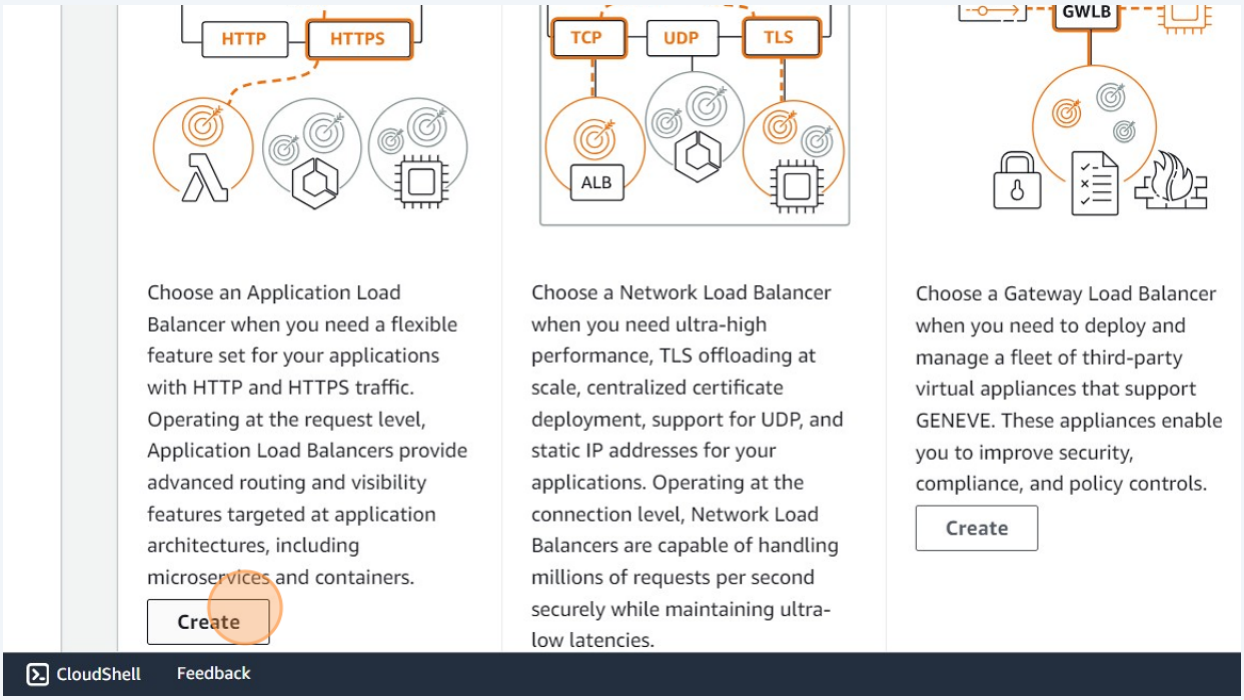
25 Click "Load Balancers"



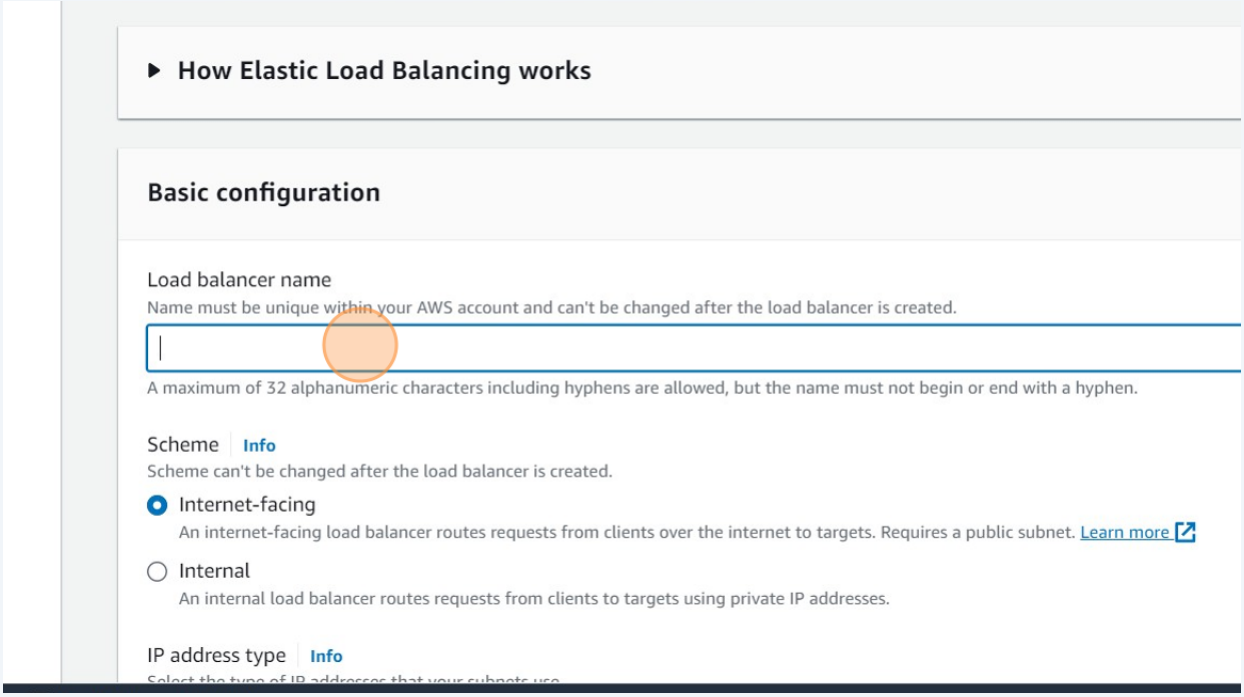
26 Click "Create load balancer"



27 Click "Create"

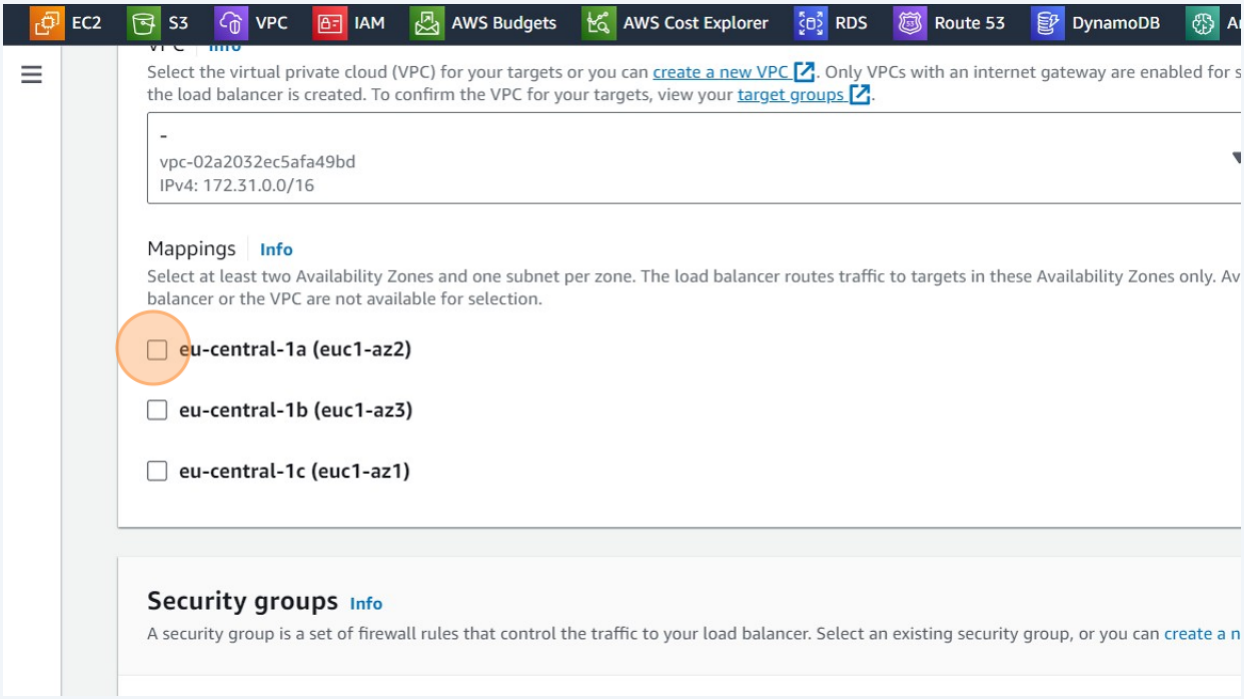


28 Click the "Load balancer name" field.

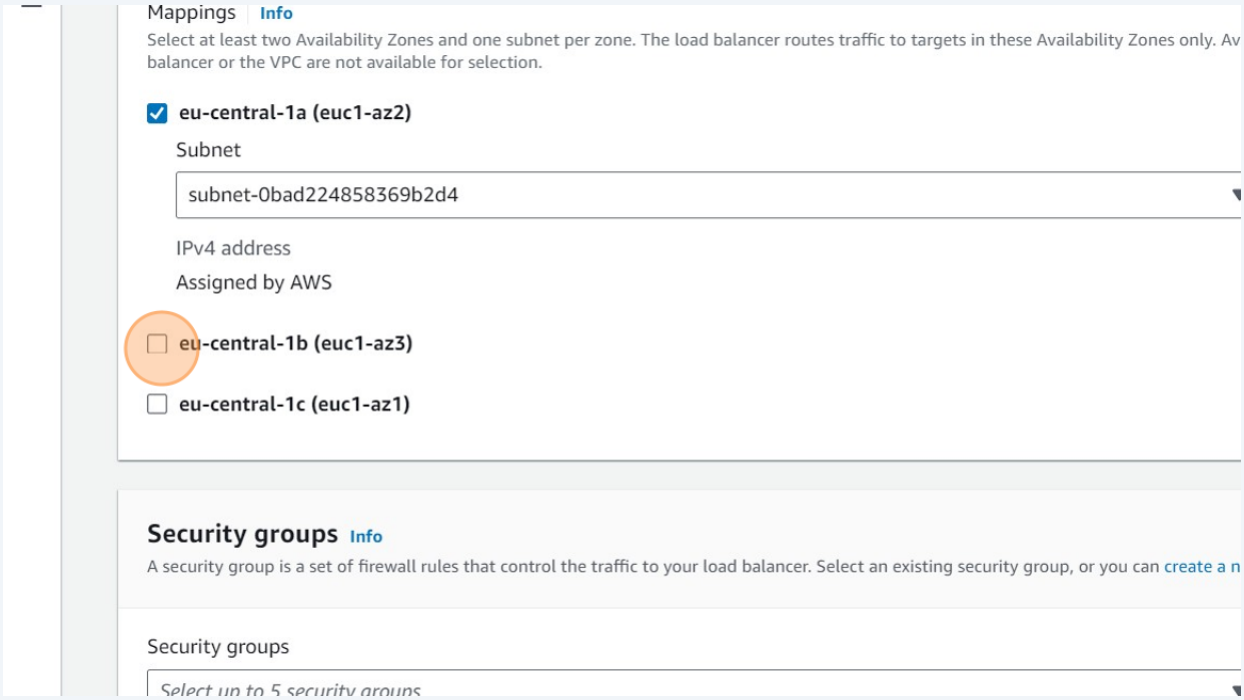


29 Type "ALB"

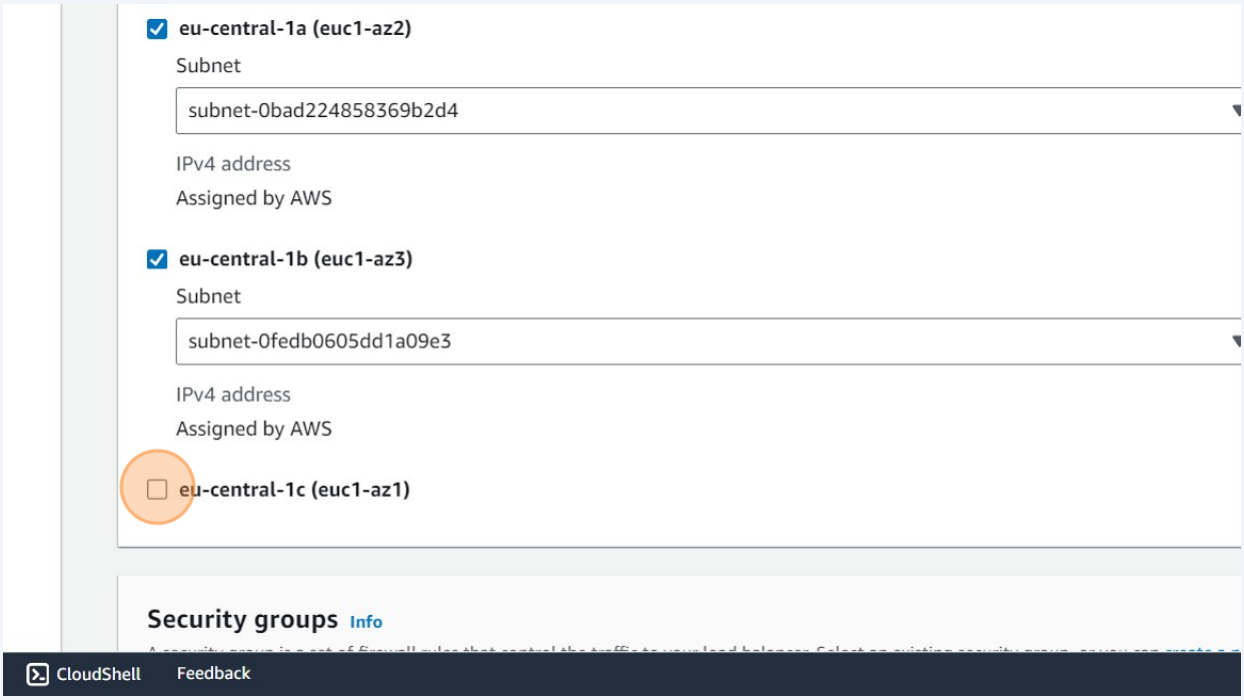
30 Click this checkbox.



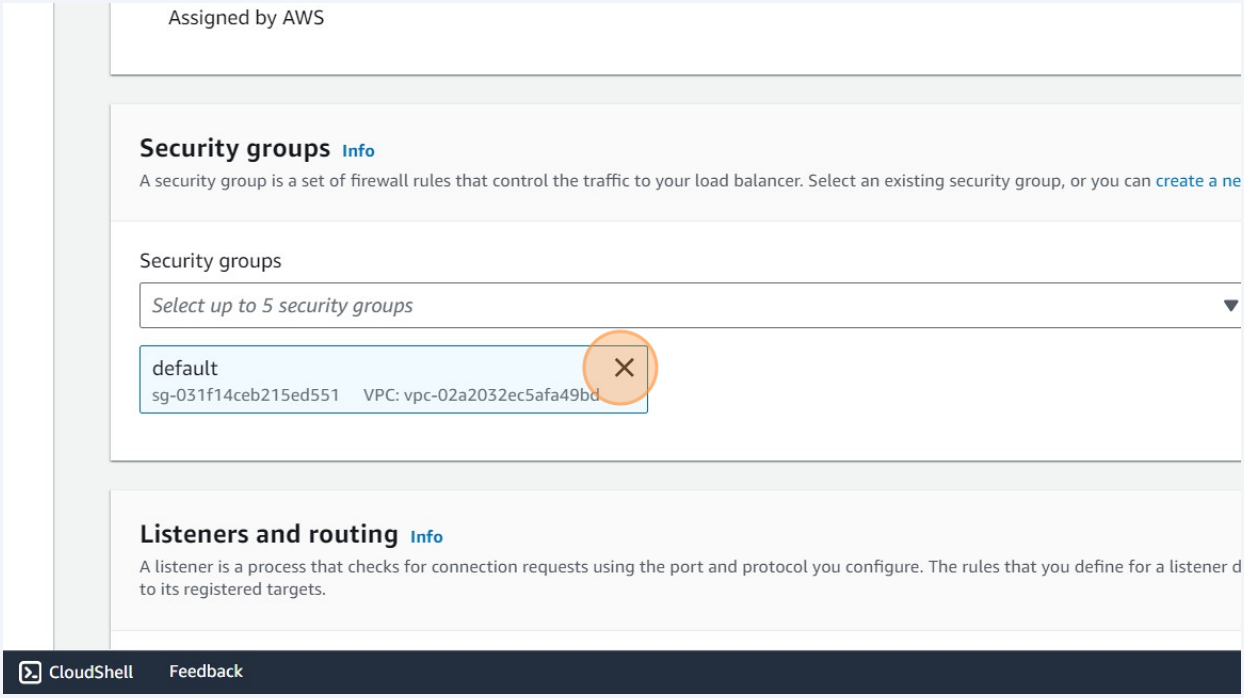
31 Click this checkbox.



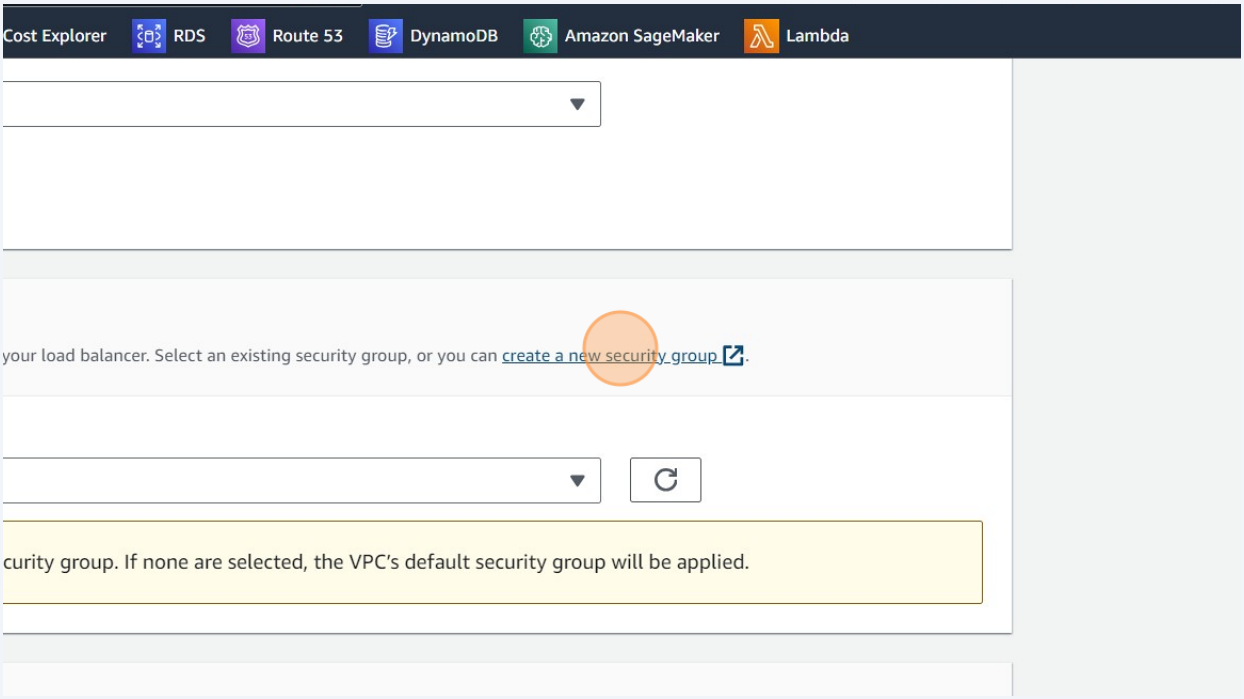
32 Click this checkbox.



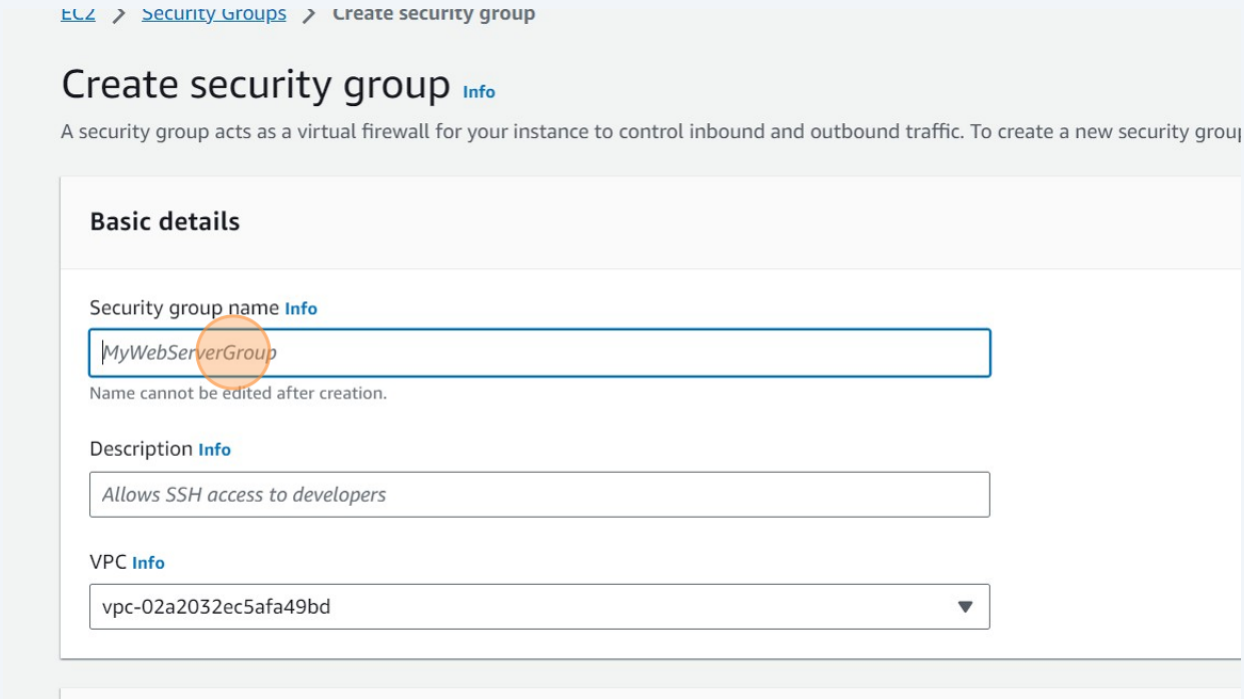
33 Click here.



34 Click "create a new security group"

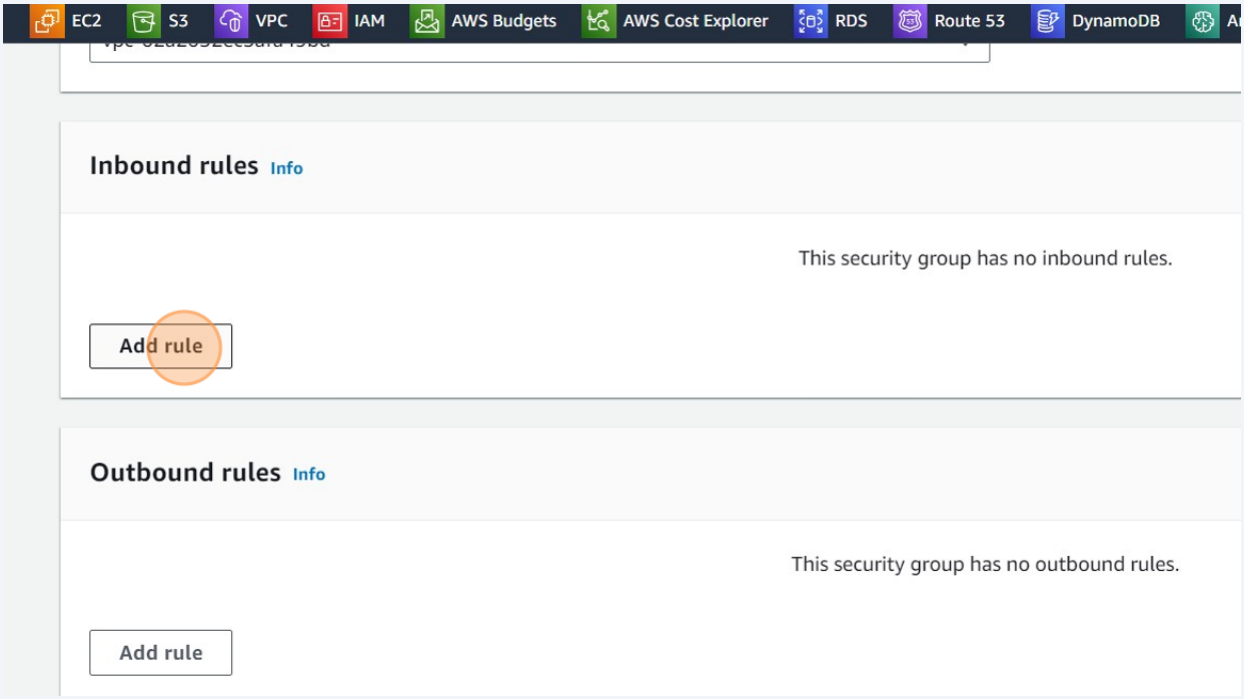


35 Click the "Security group name Info:" field.

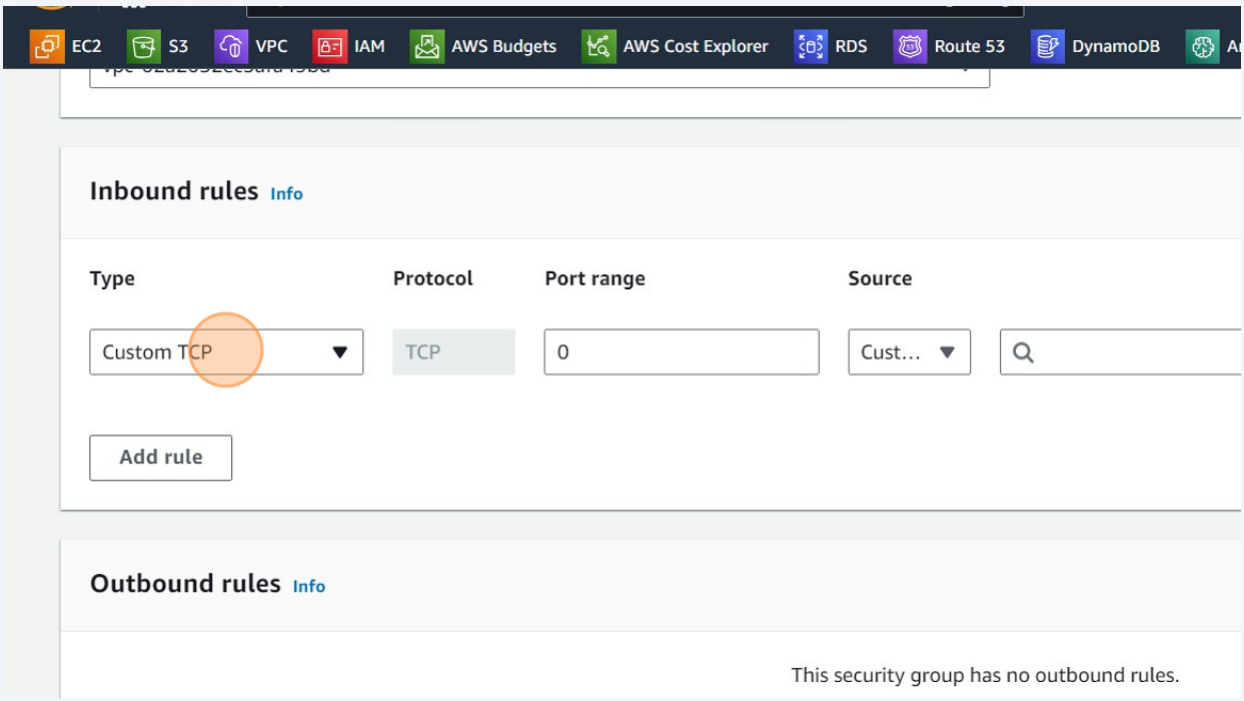


36 Type "alb-security-group"

37 Click "Add rule"

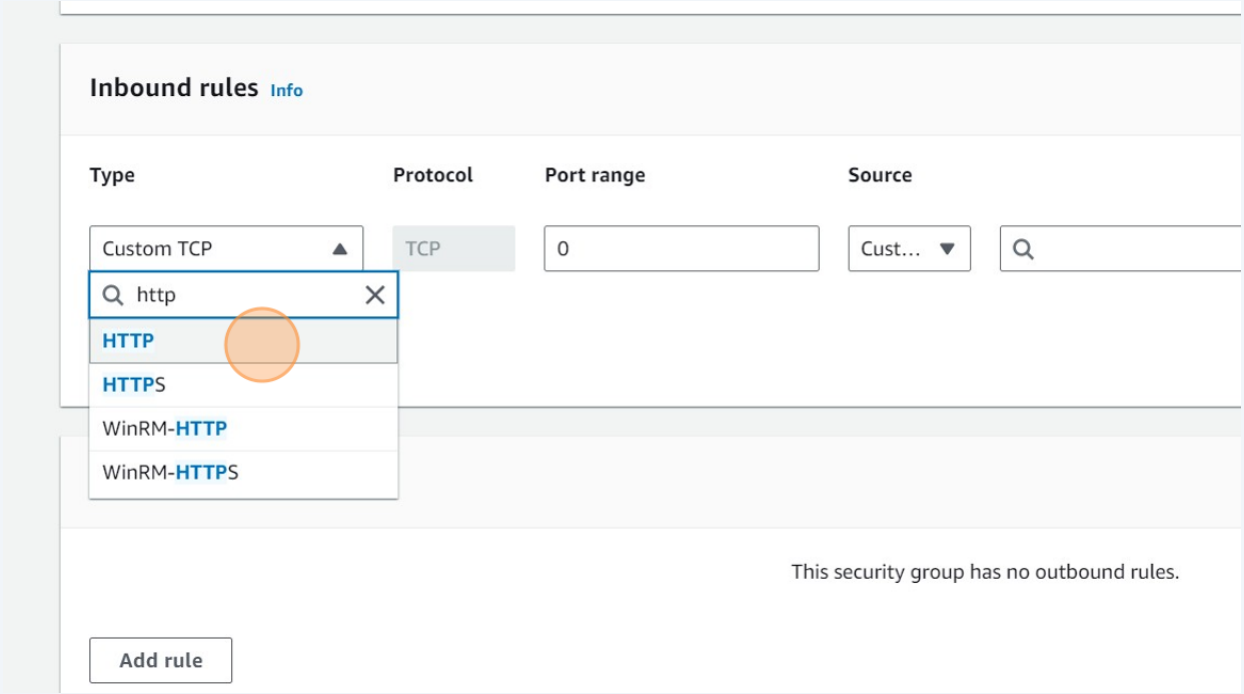


38 Click "Custom TCP"

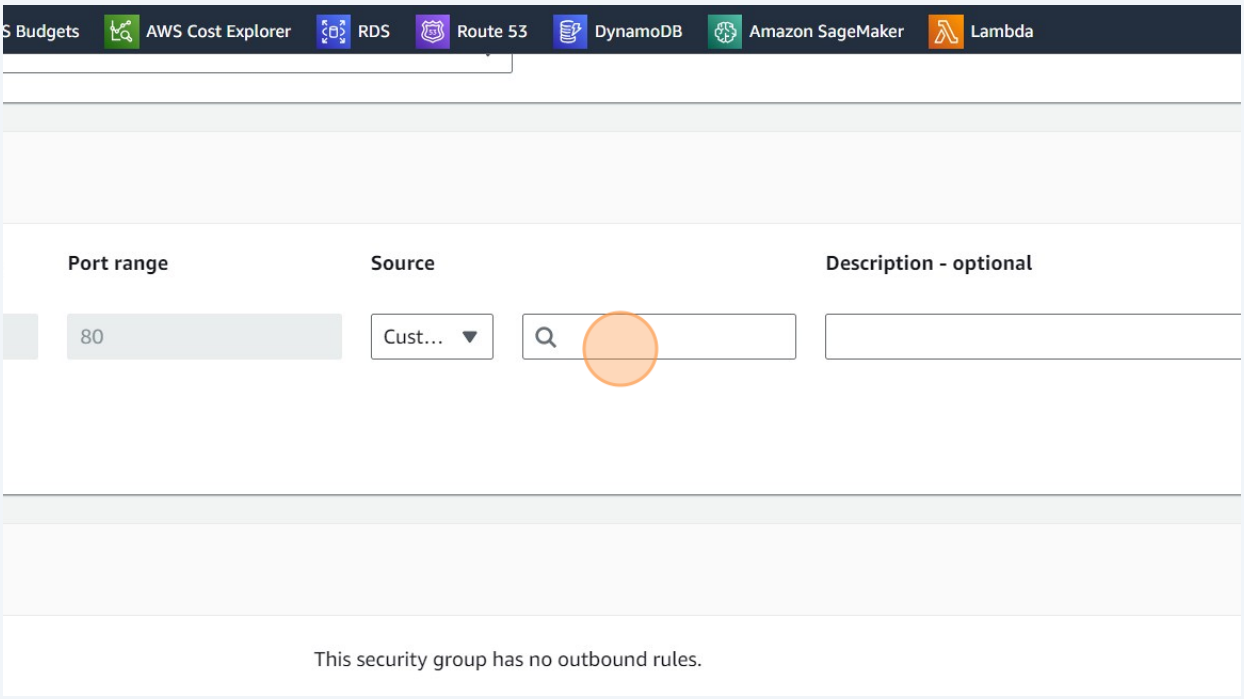


39 Type "http"

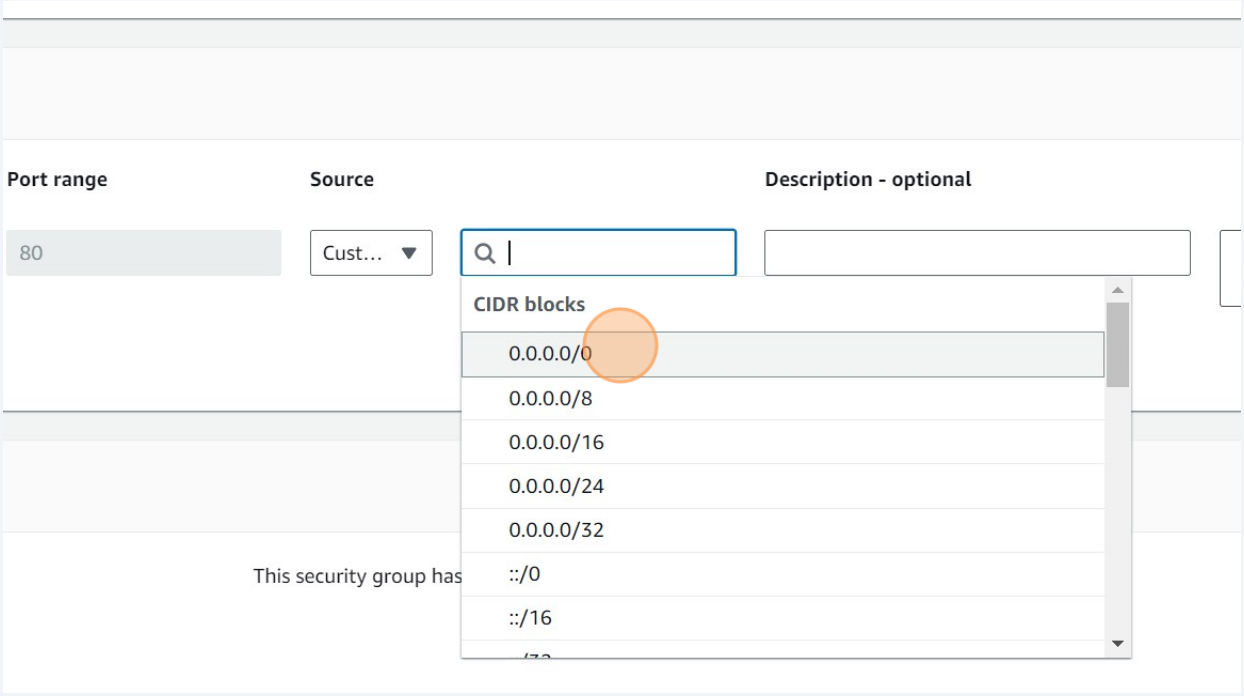
40 Click "HTTP"



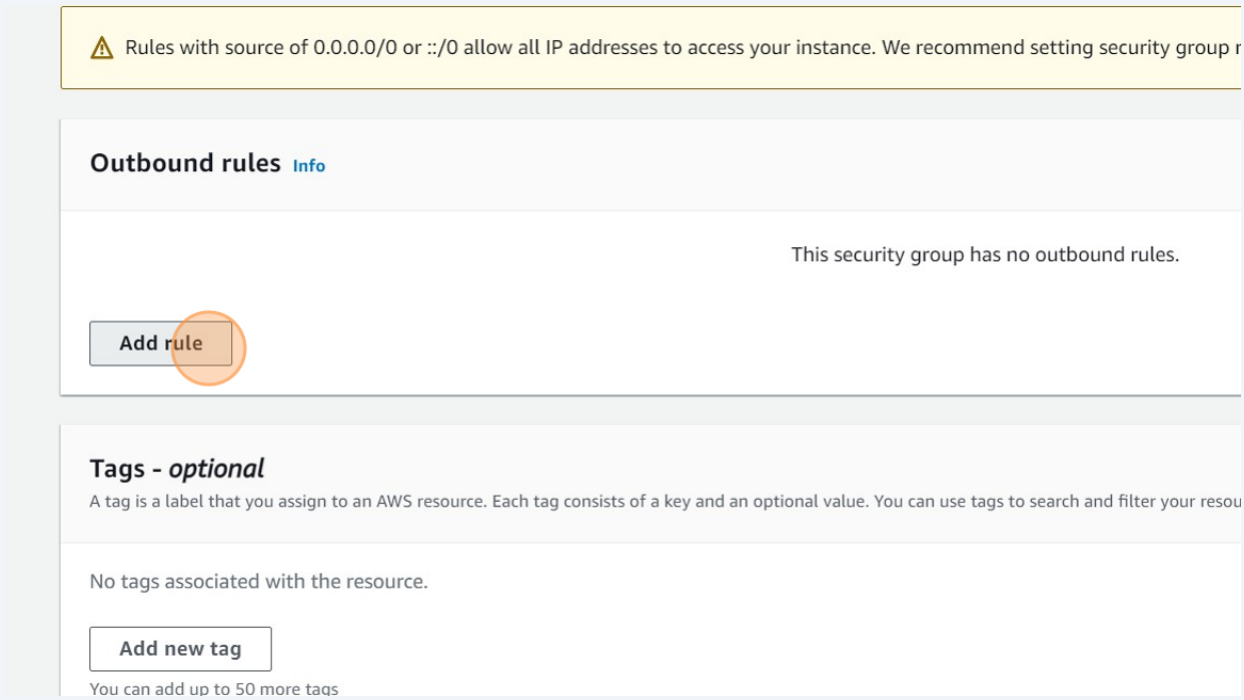
41 Click this text field.



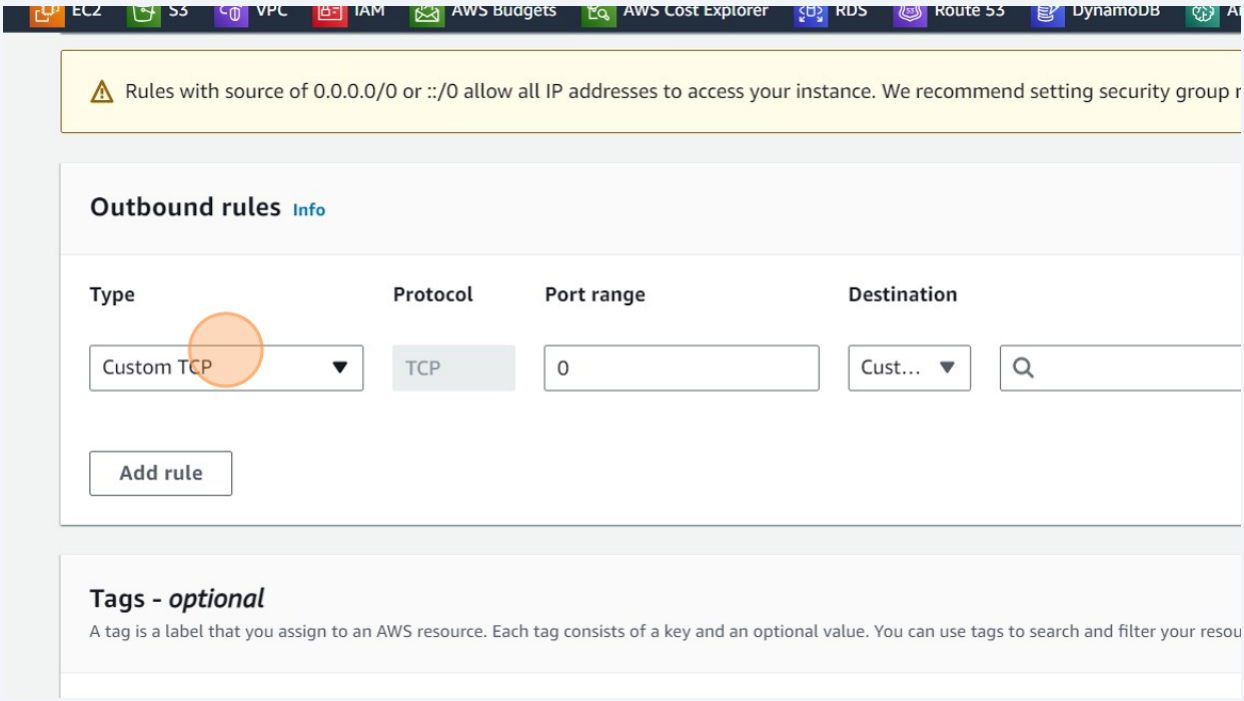
42 Click "0.0.0.0/0"



43 Click "Add rule"

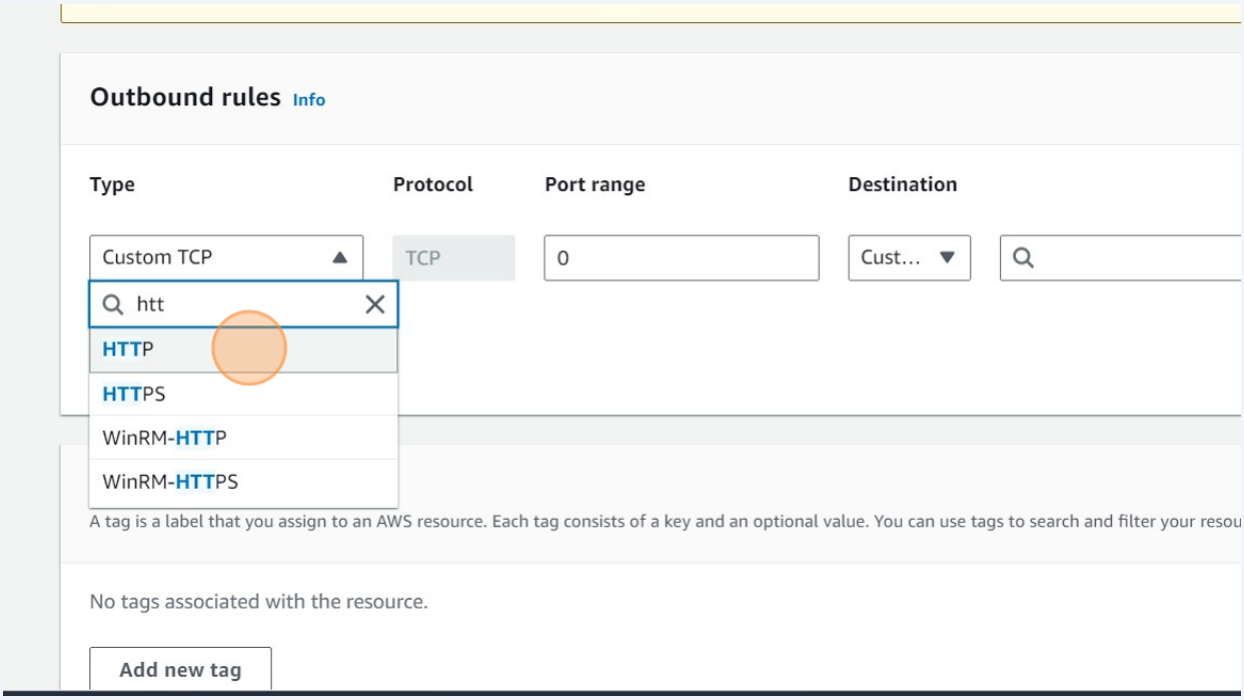


44 Click "Custom TCP"

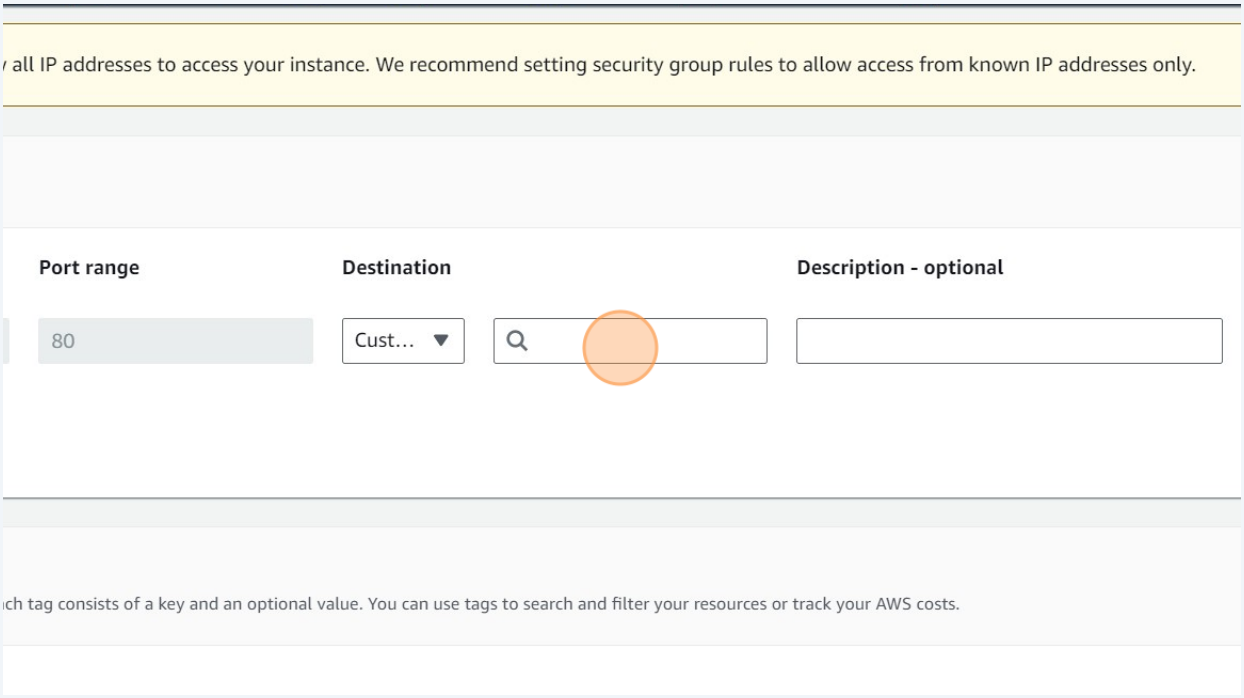


45 Type "htt"

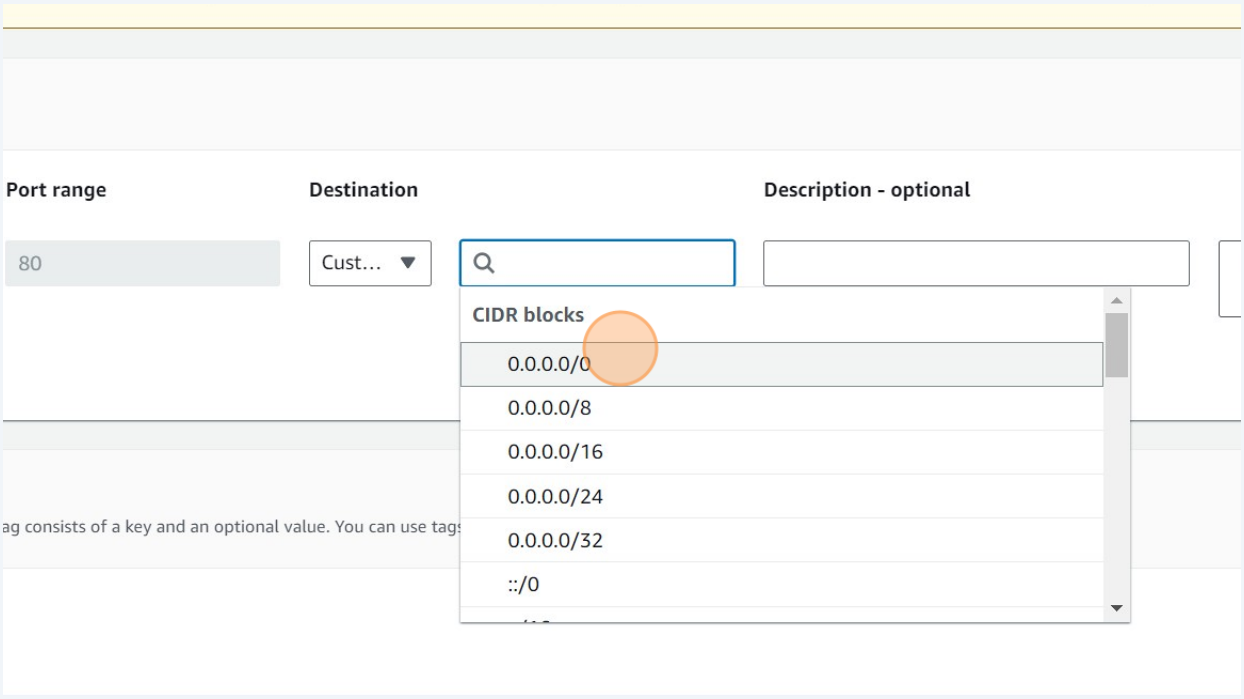
46 Click "HTTP"



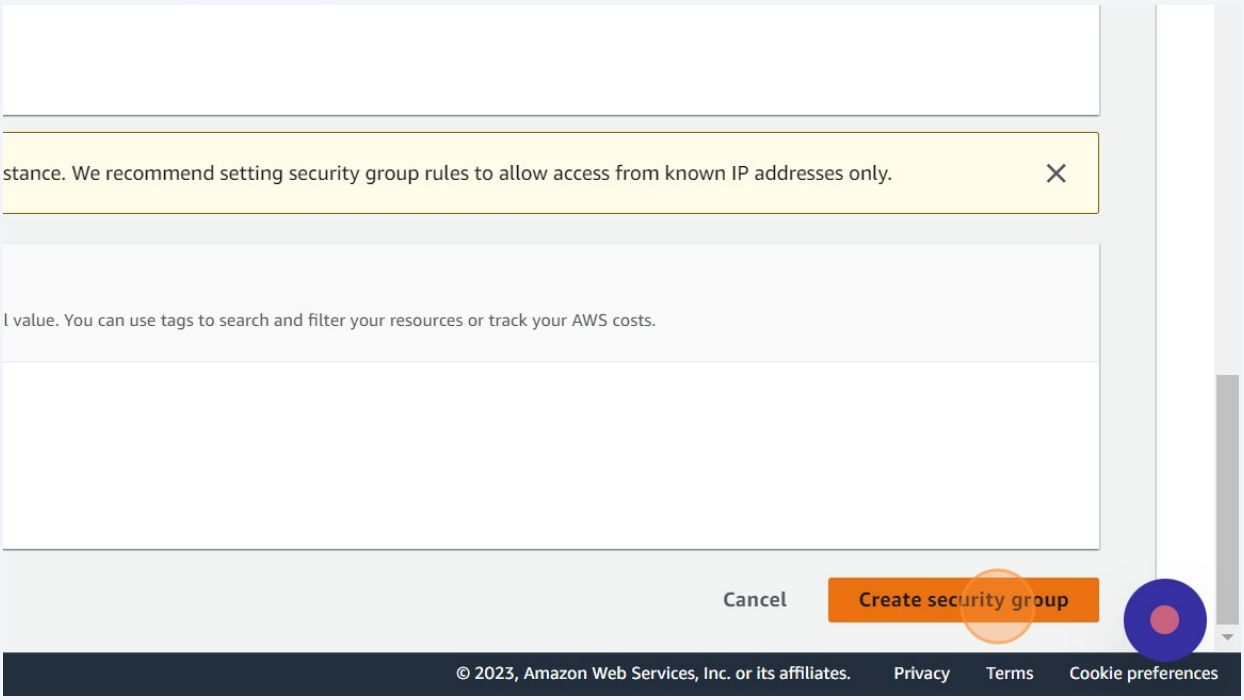
47 Click this text field.



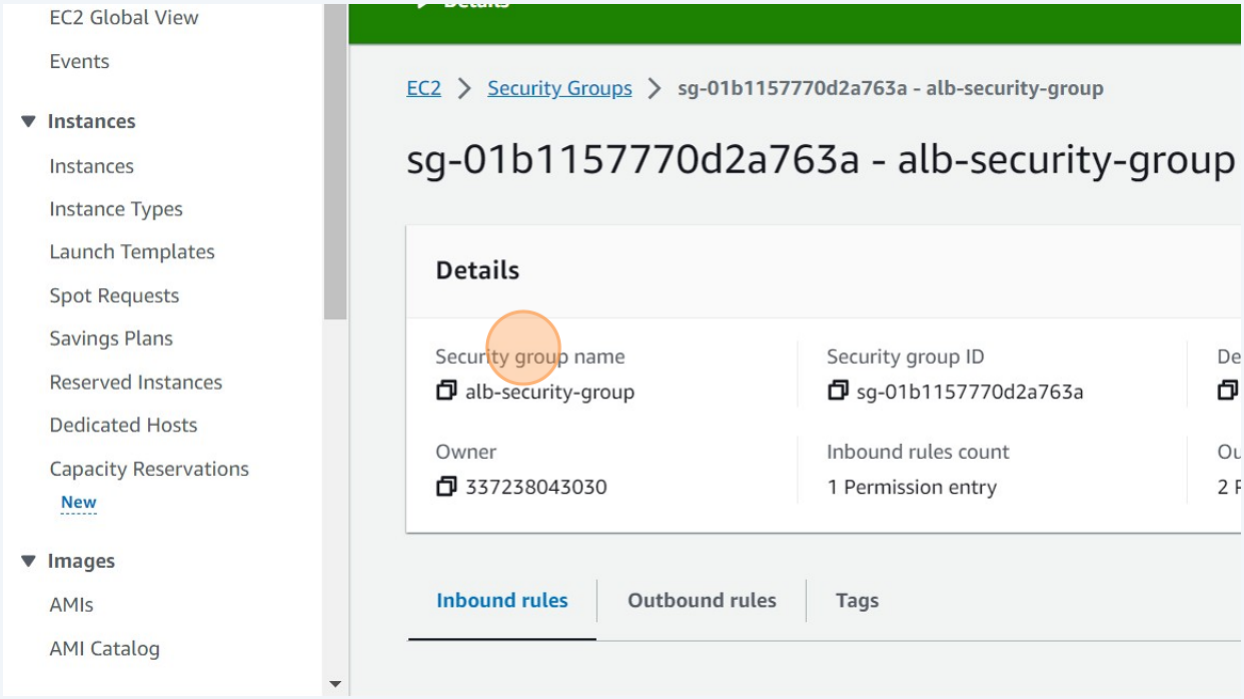
48 Click "0.0.0.0/0"



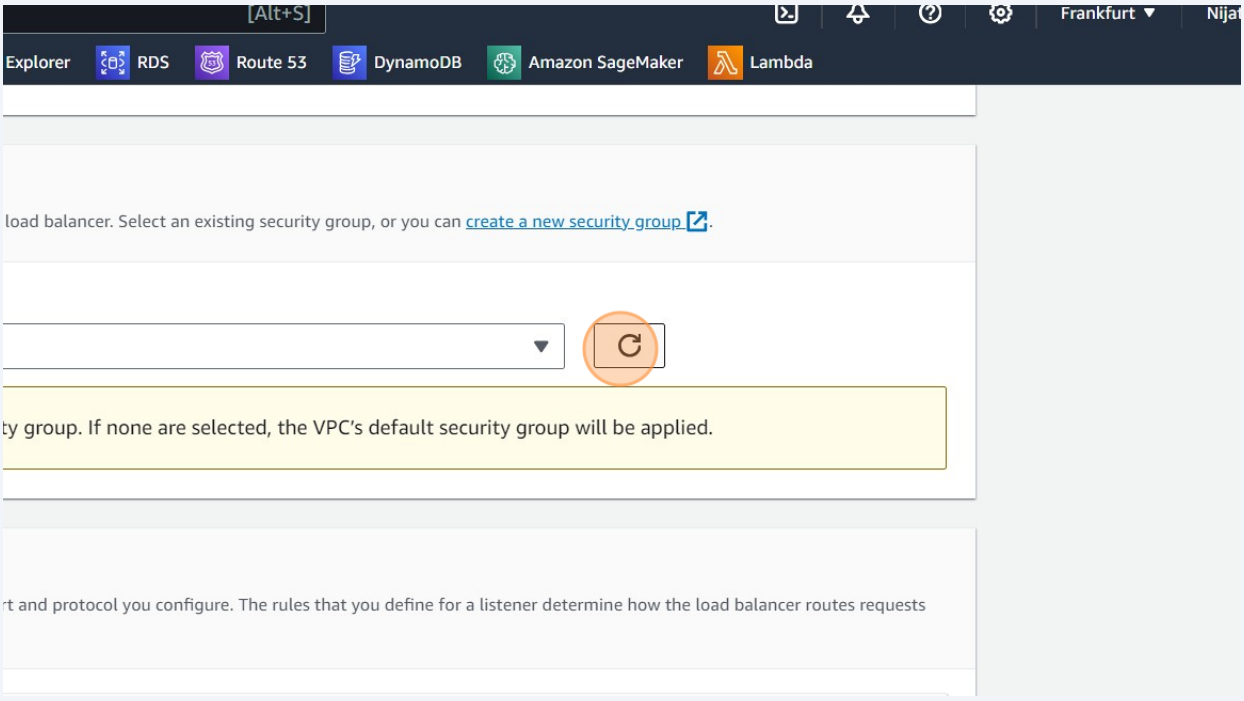
49 Click "Create security group"



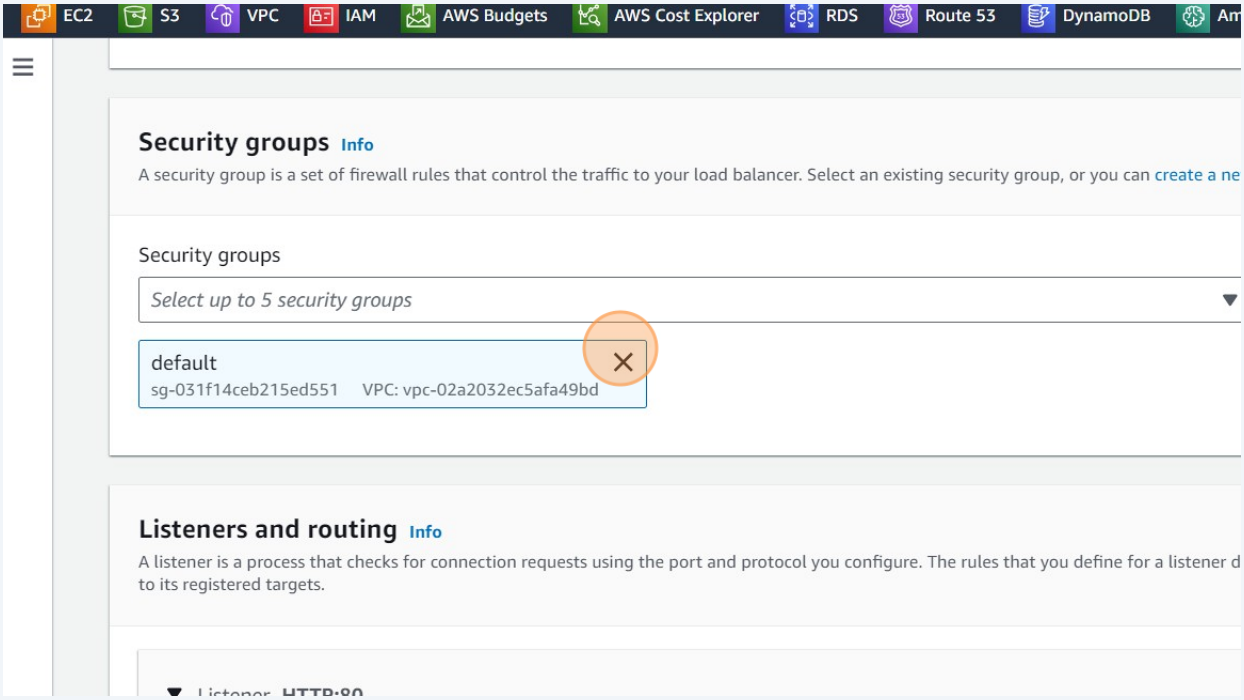
50 Click "Security group name"



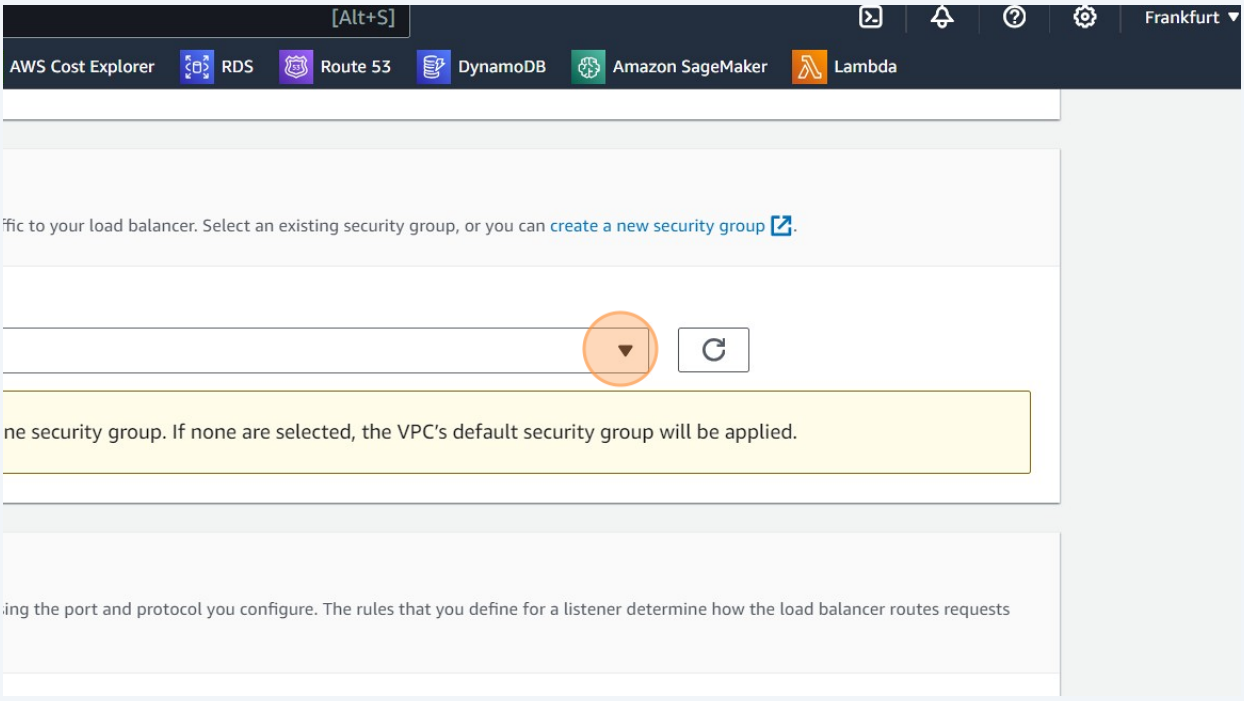
51 Click here.



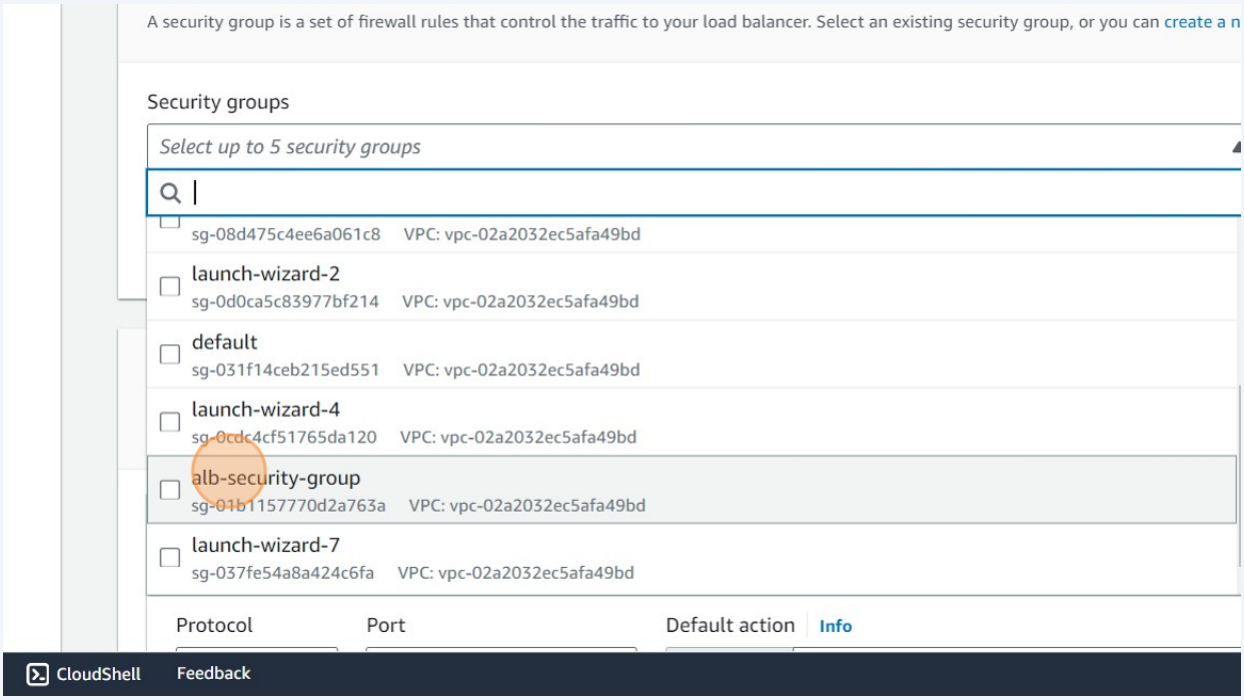
52 Click here.



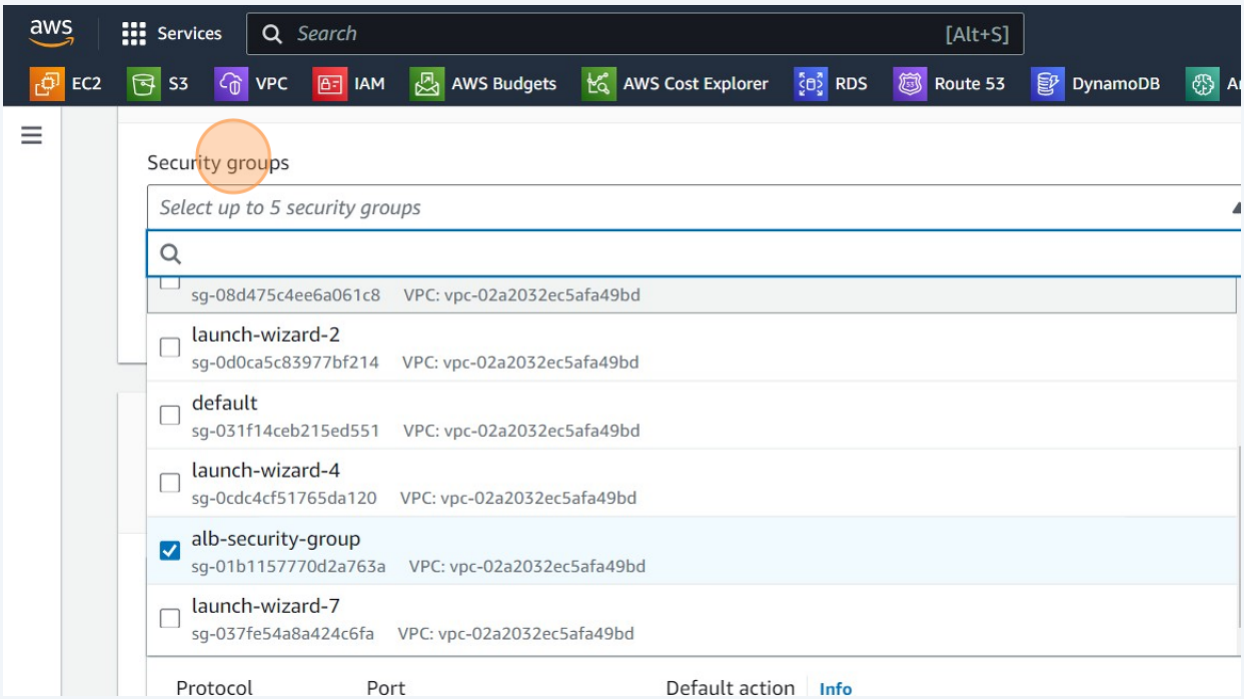
53 Click here.



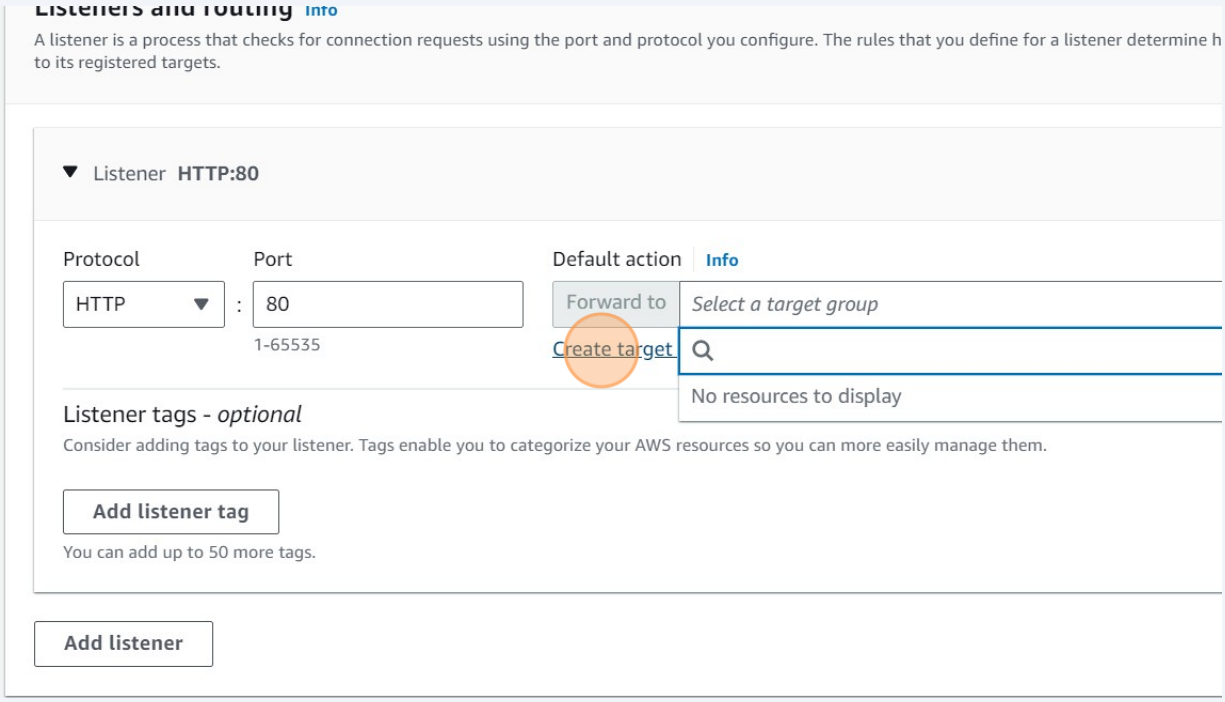
54 Click "alb-security-group"



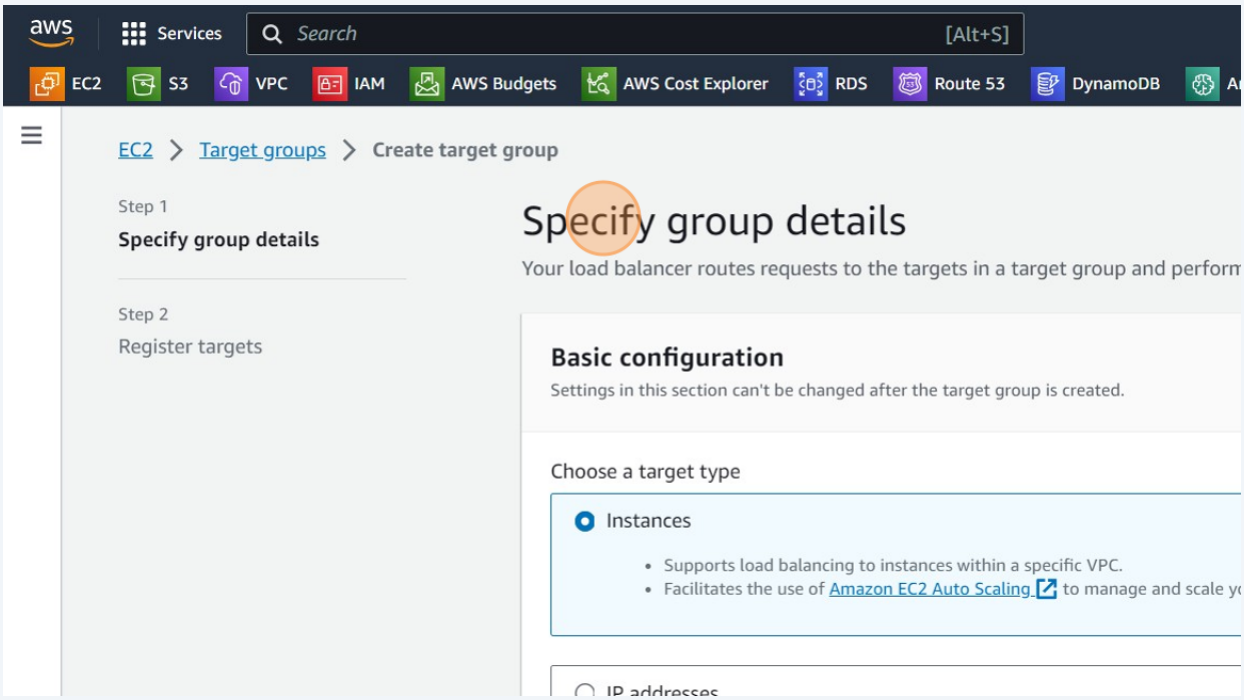
55 Click "Security groups"



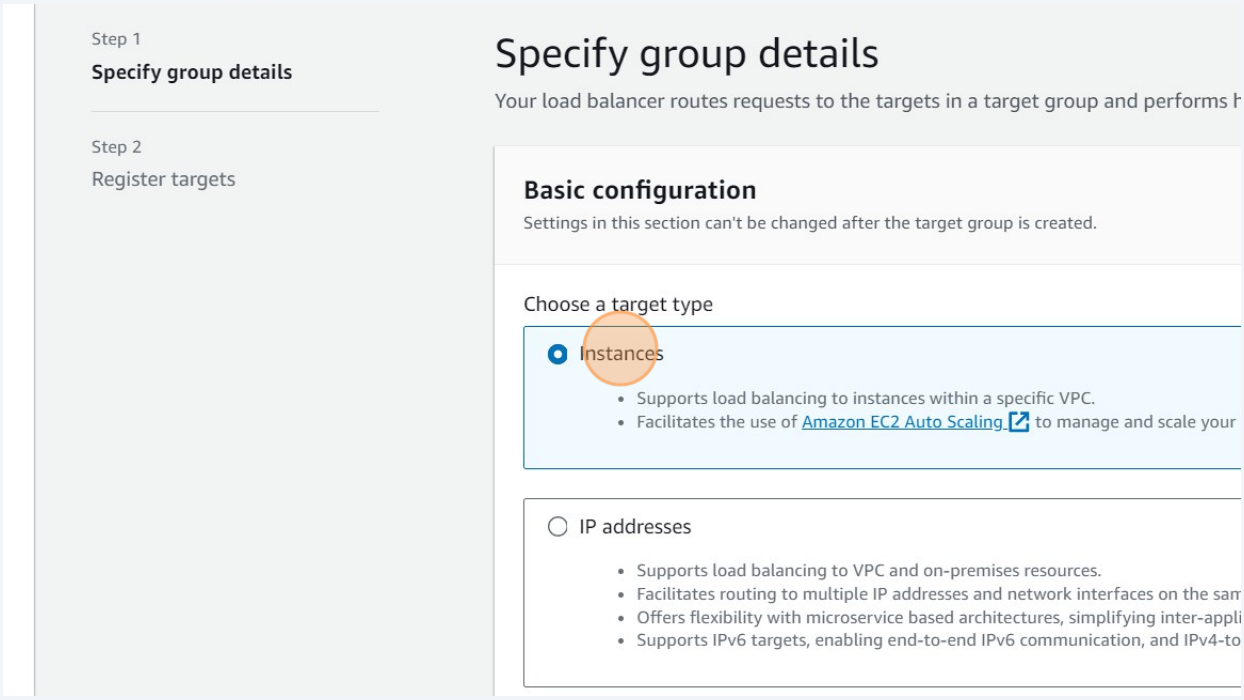
56 Click "Create target group"



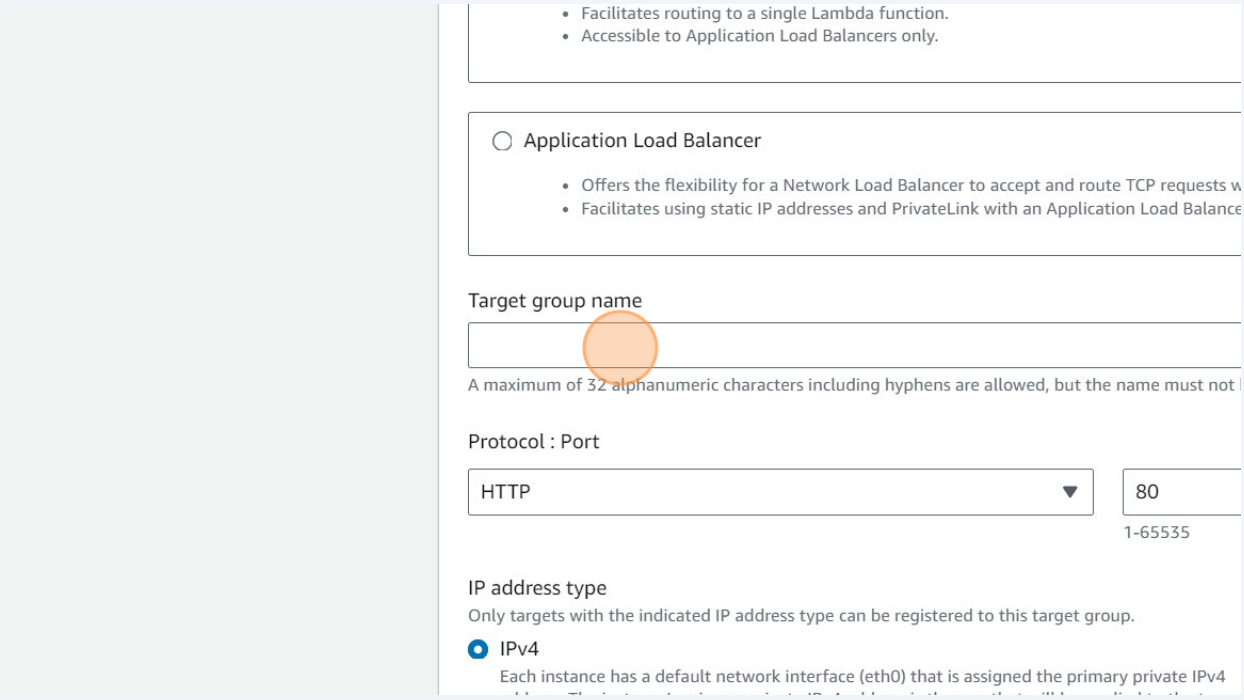
57 Click "Specify group details"



58 Click "Instances"

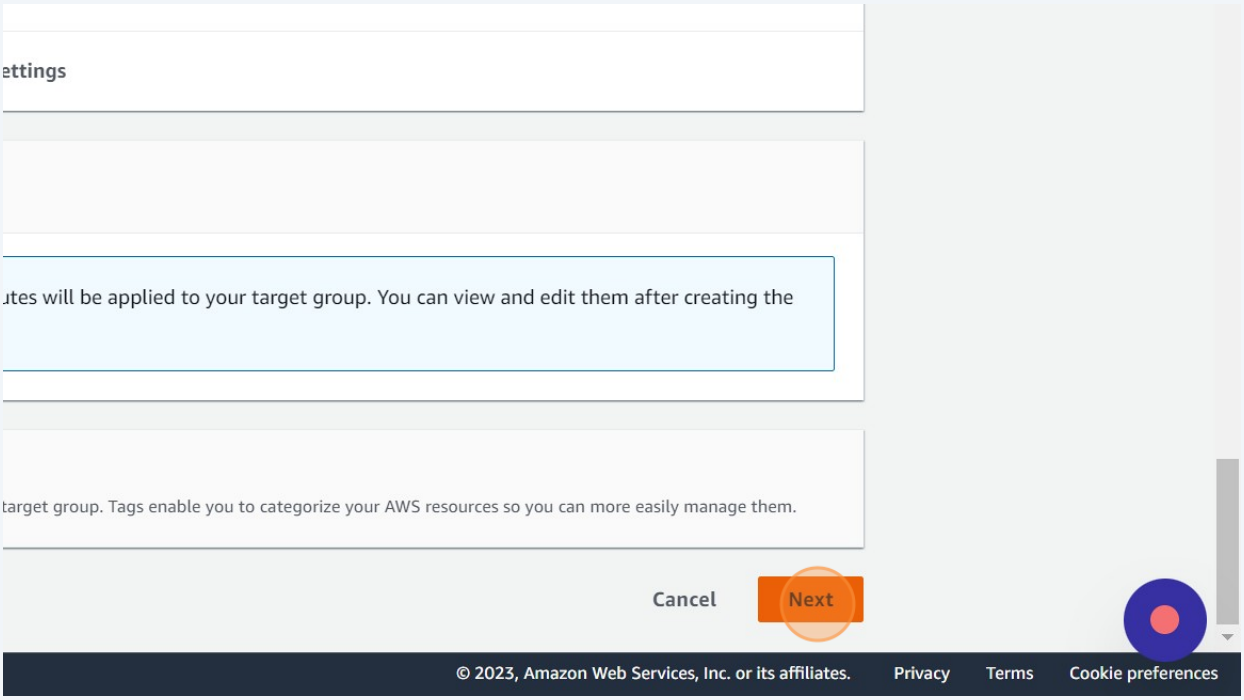


59 Click the "Target group name" field.

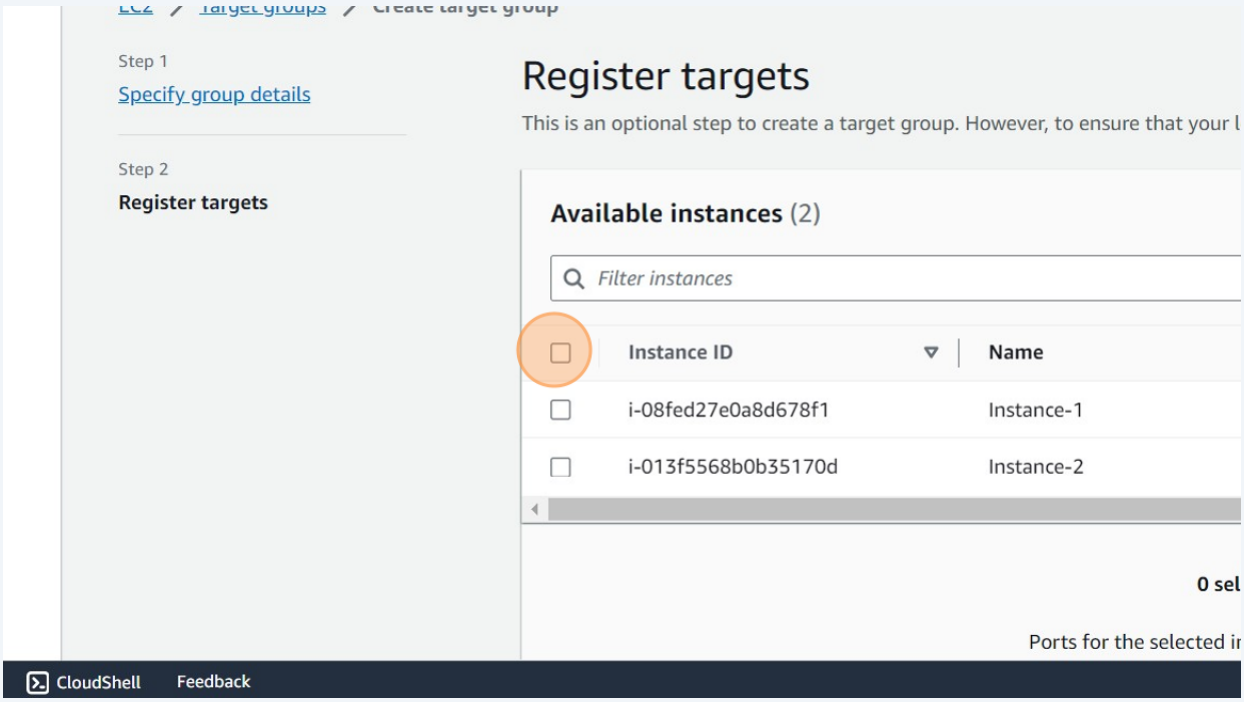


60 Type "targetgroup"

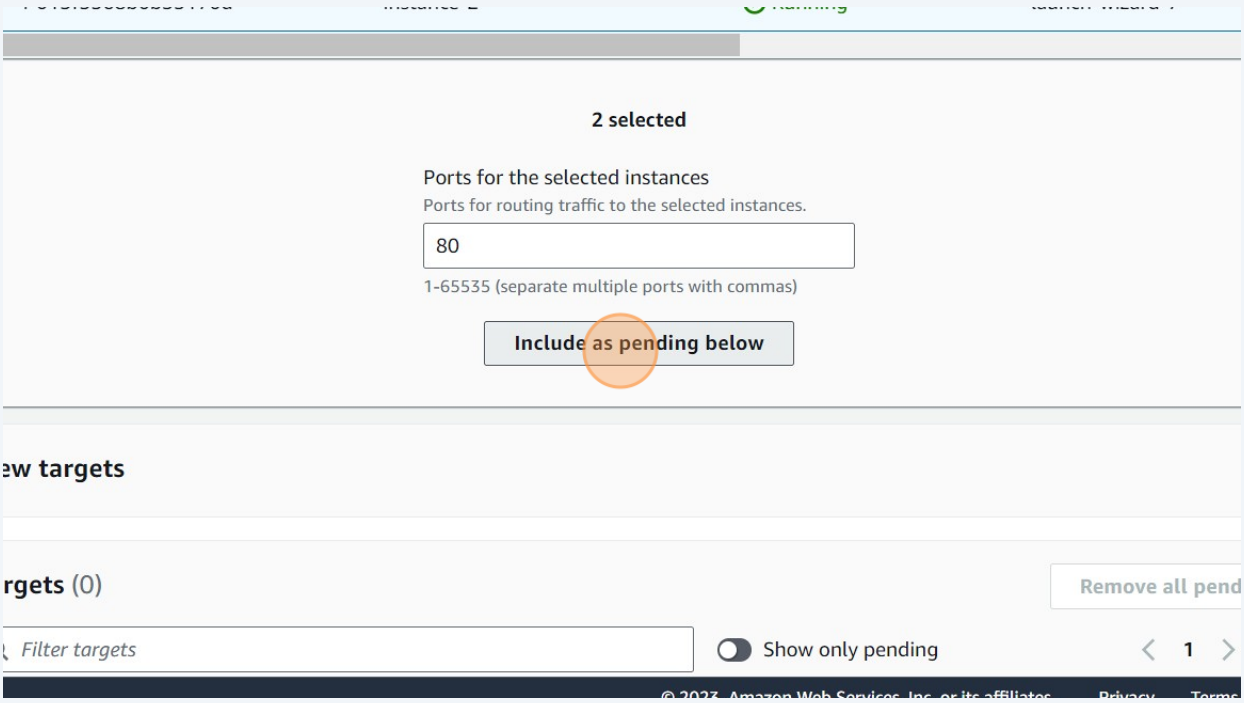
61 Click "Next"



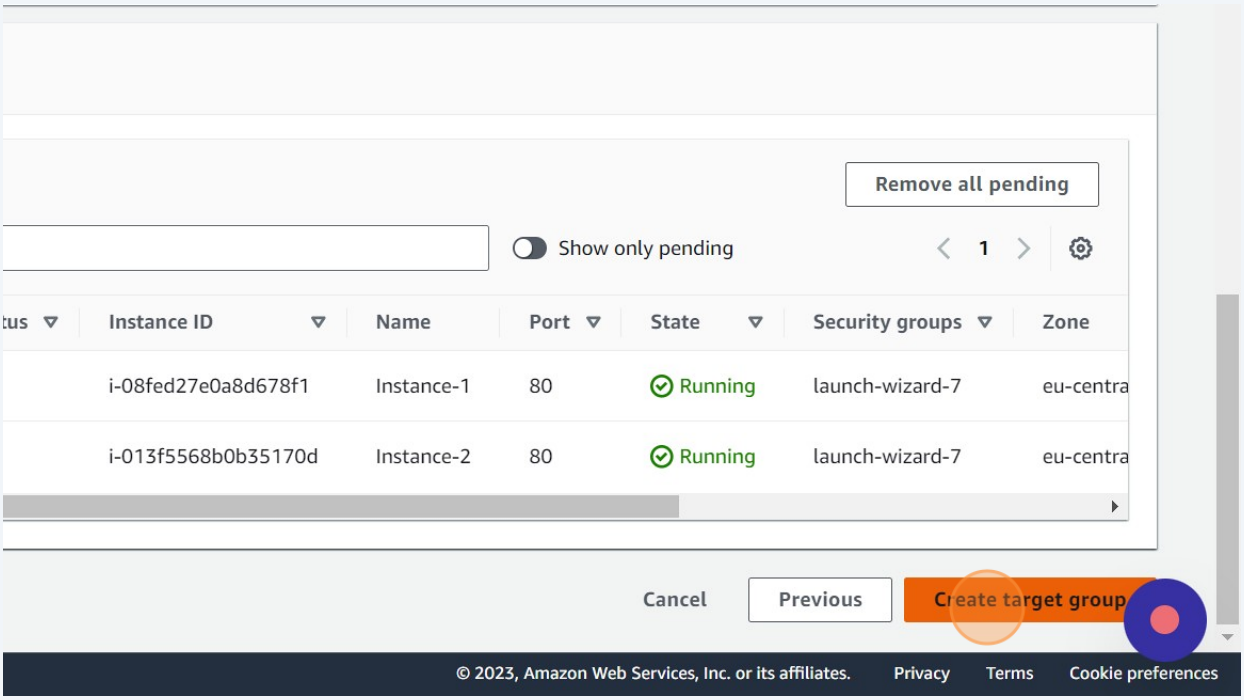
62 Click this checkbox.



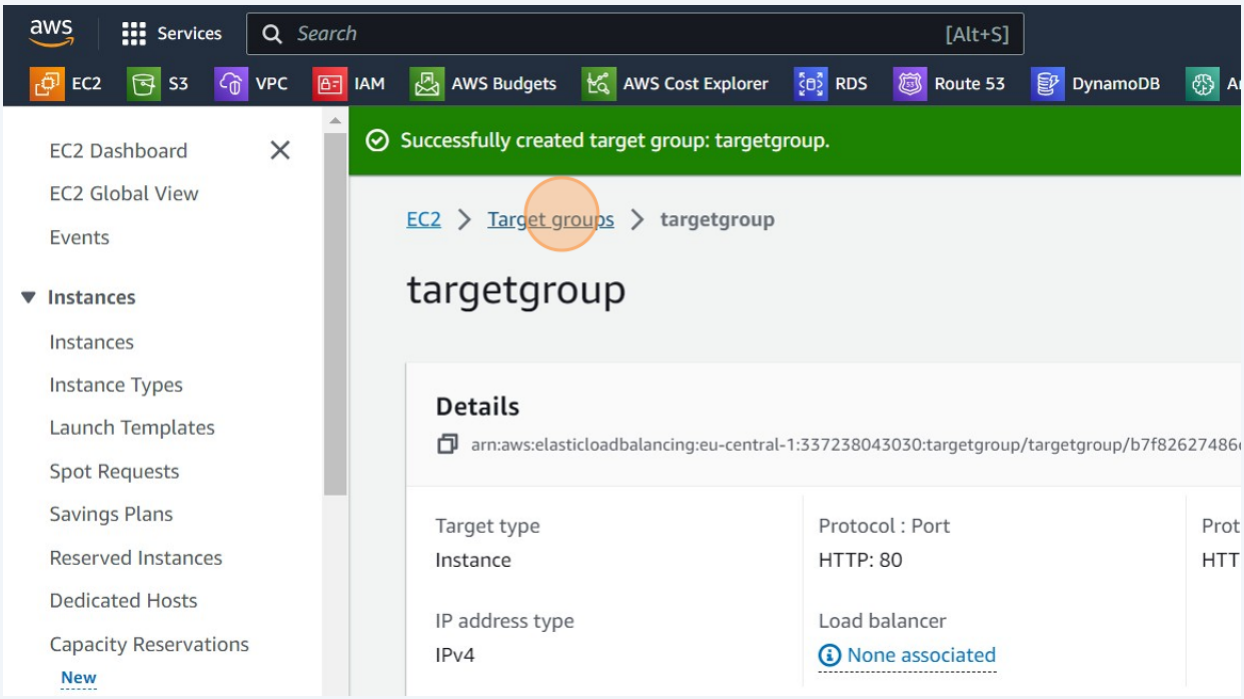
63 Click "Include as pending below"



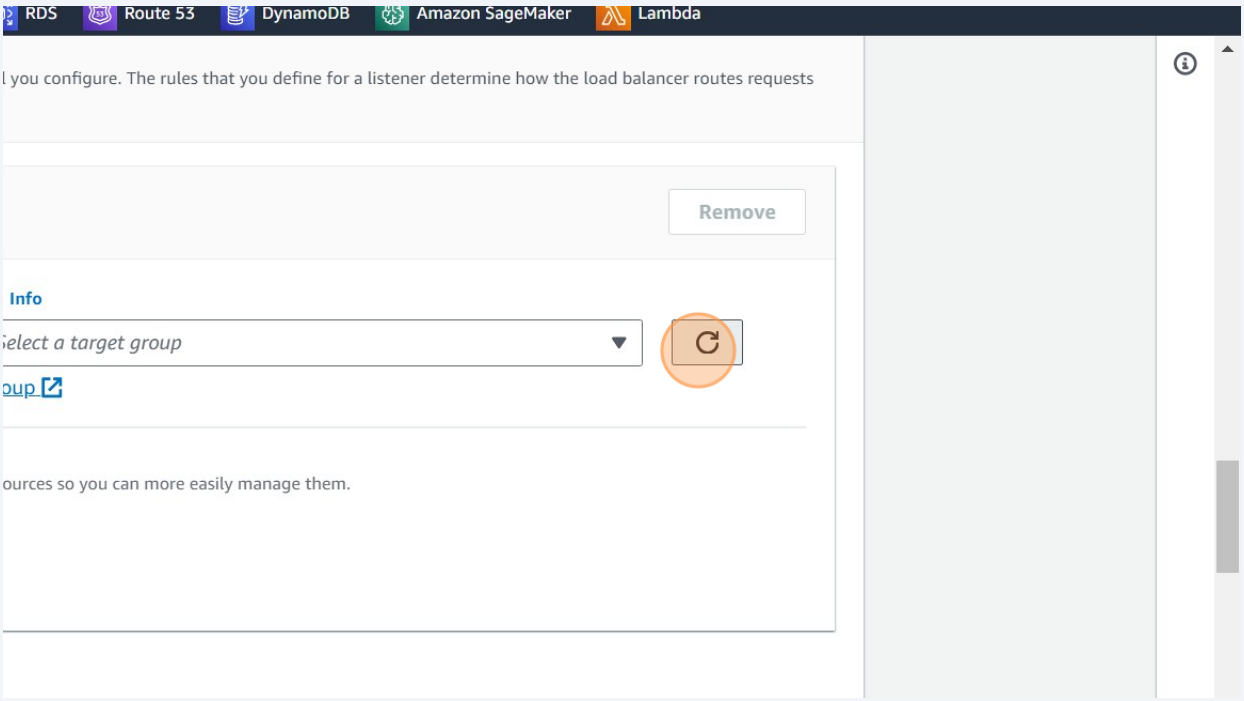
64 Click "Create target group"



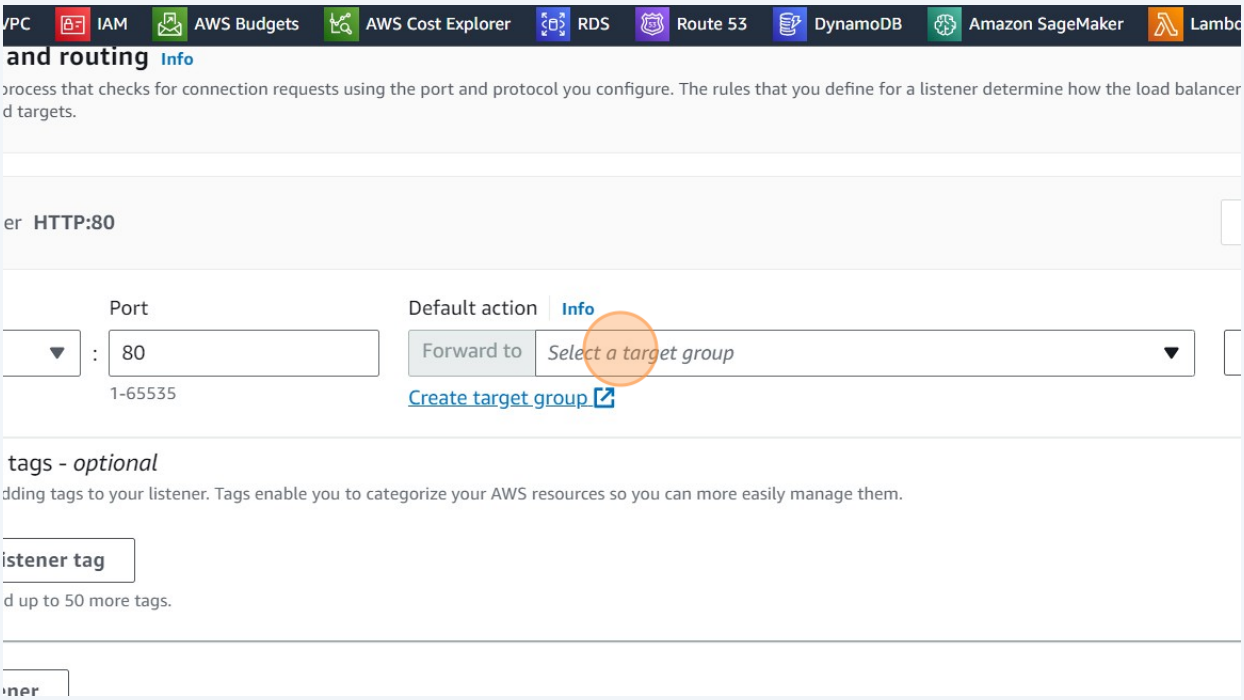
65 Click "Target groups"



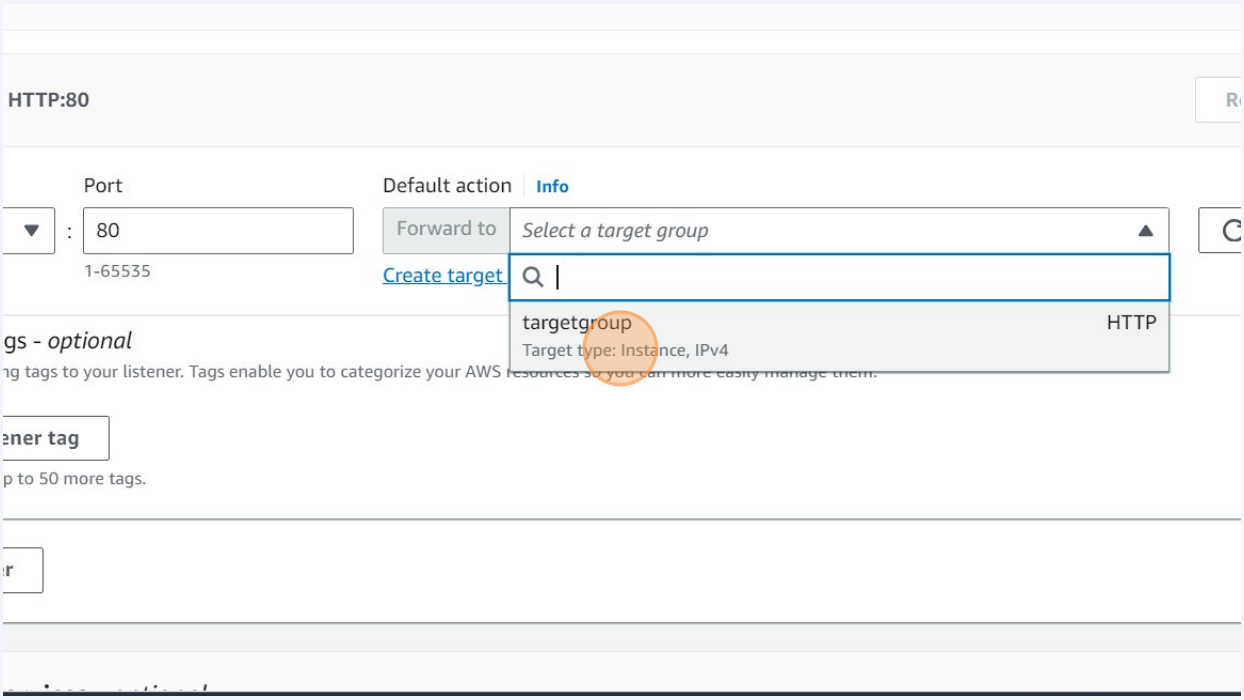
66 Click here.



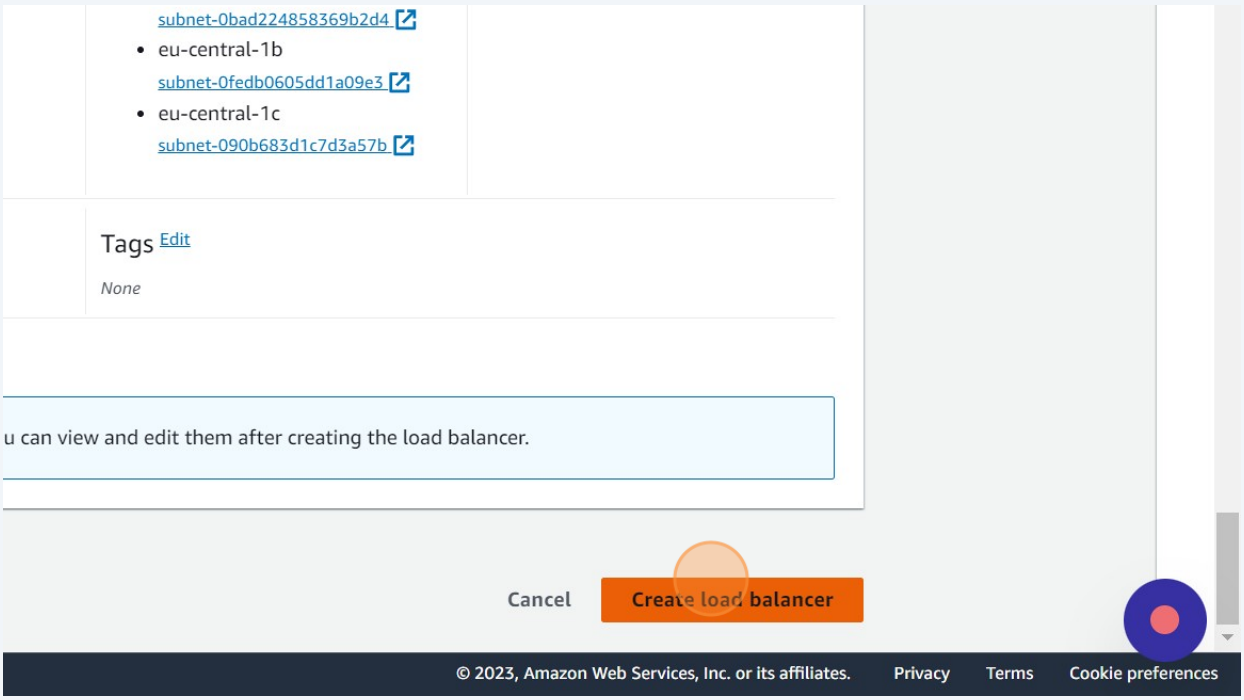
67 Click "Select a target group"



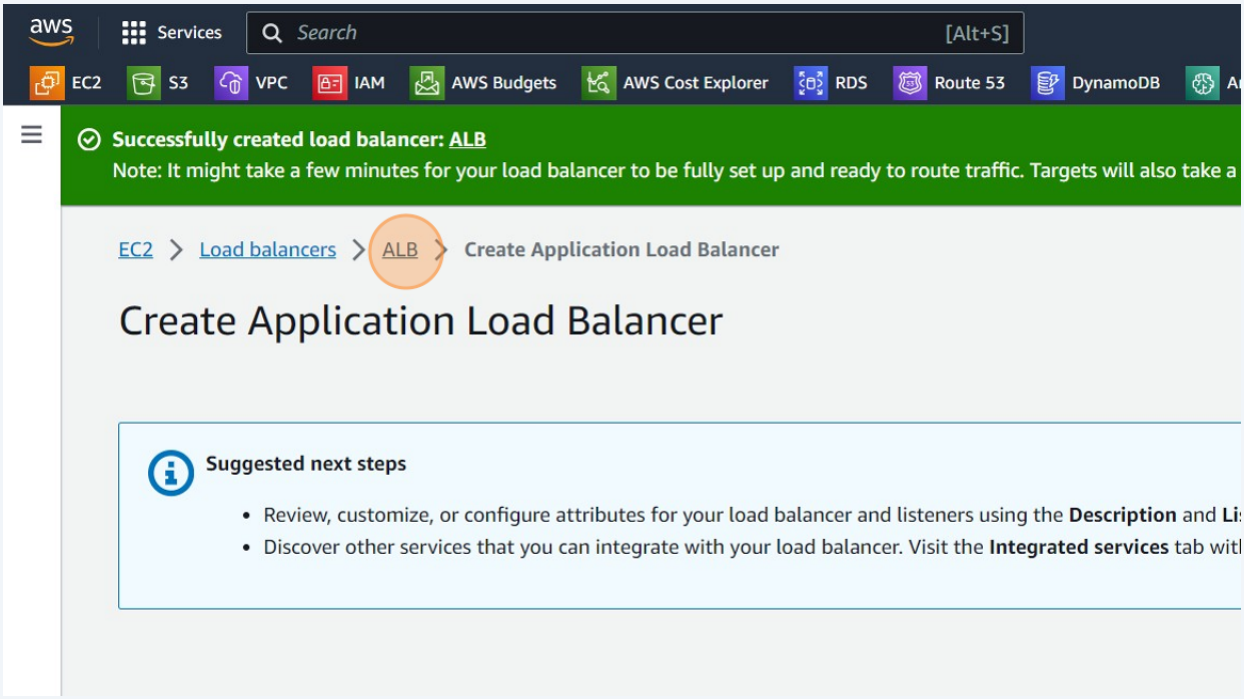
68 Click "Target type: Instance, IPv4"



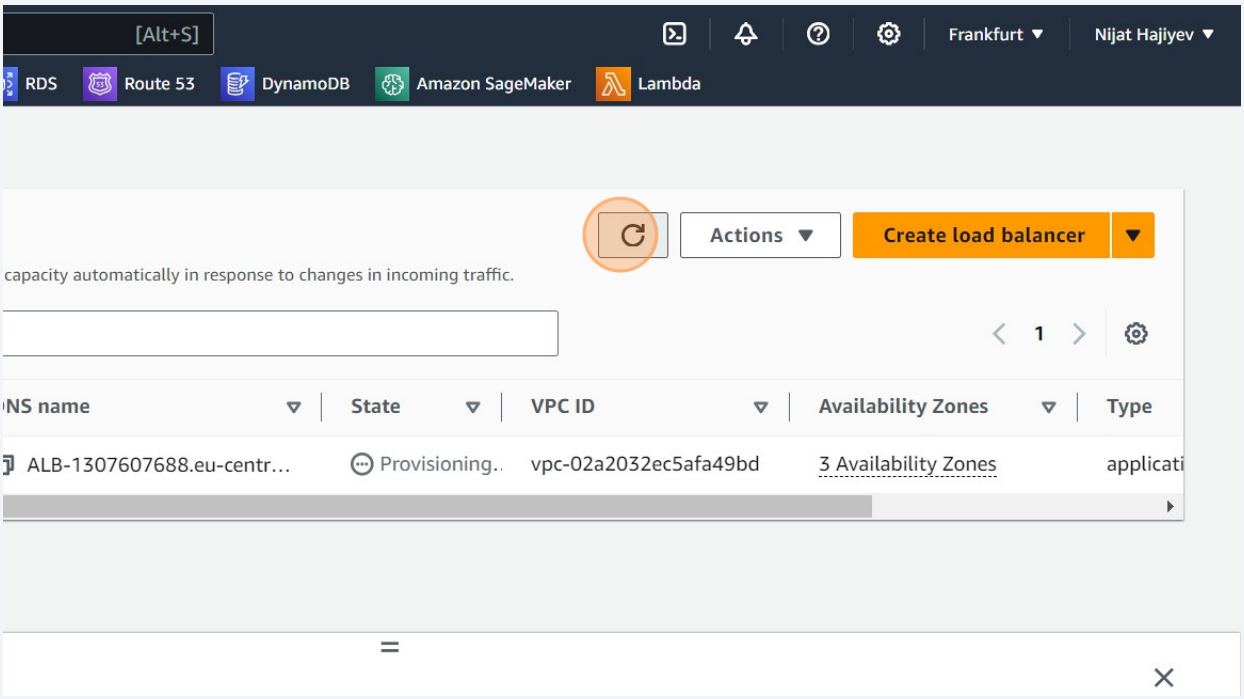
69 Click "Create load balancer"



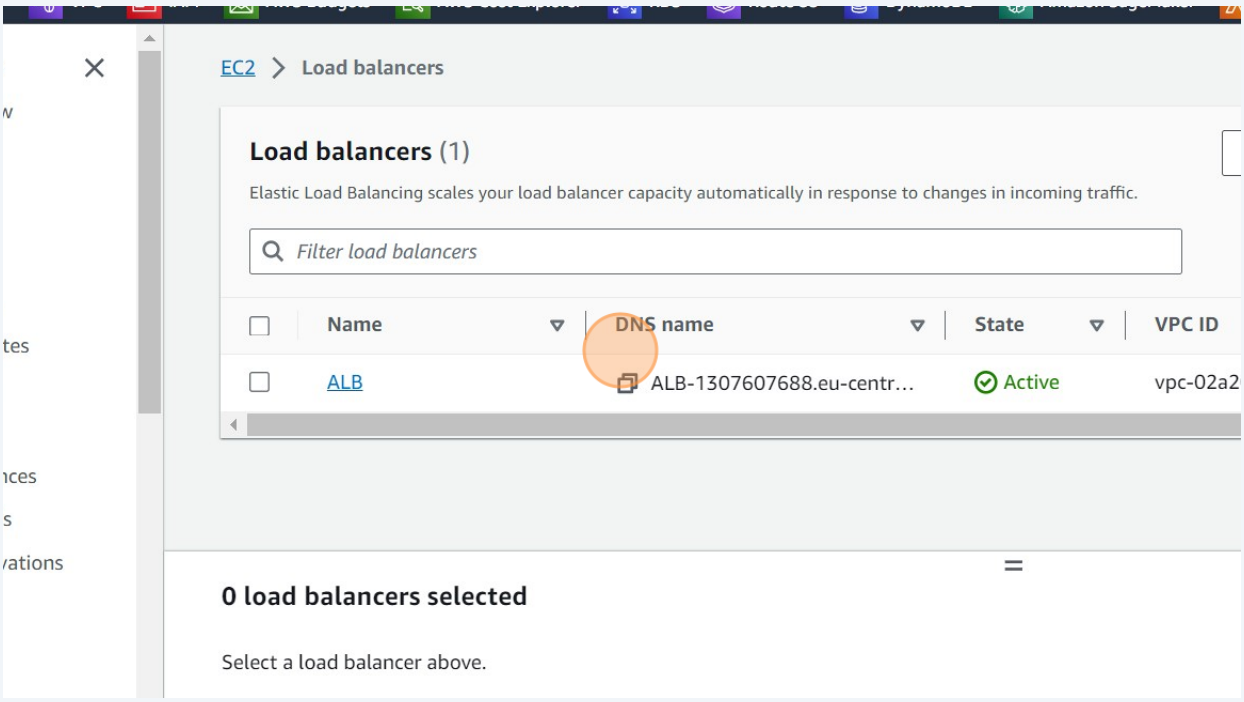
70 Click "ALB"



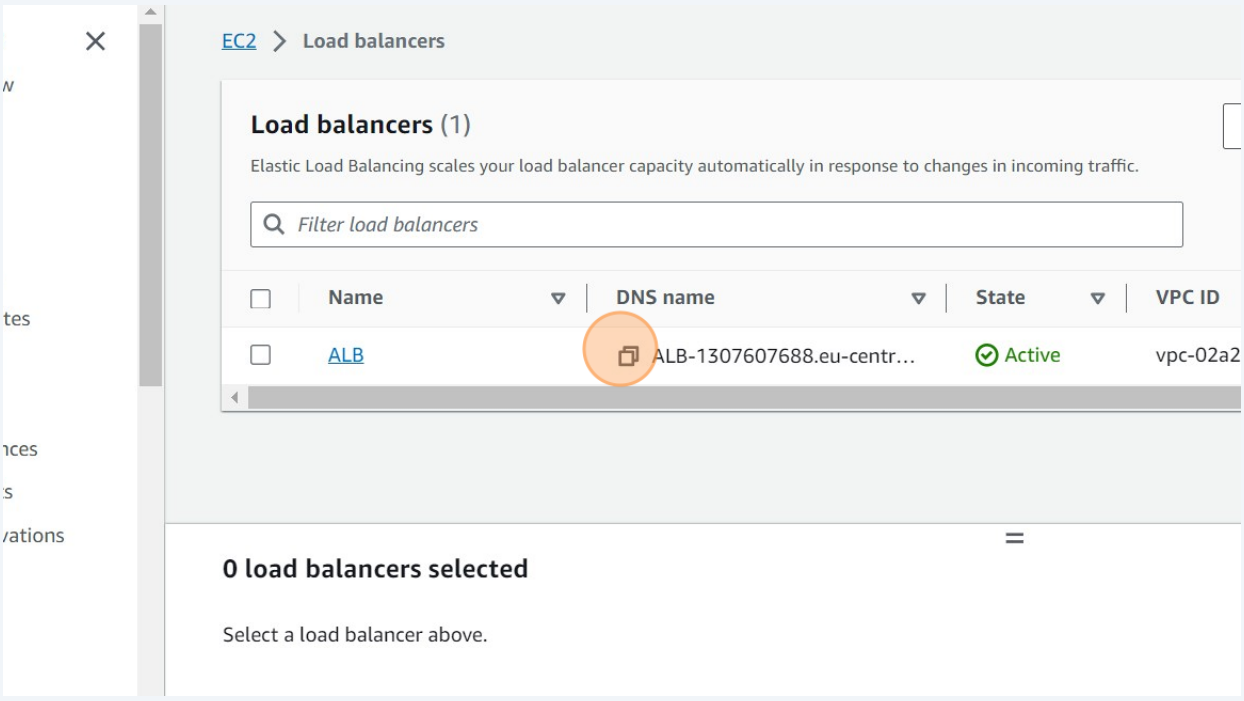
71 Click here.



72 Click "DNS name"



73 Click here.



74 Open a new tab

75 Paste