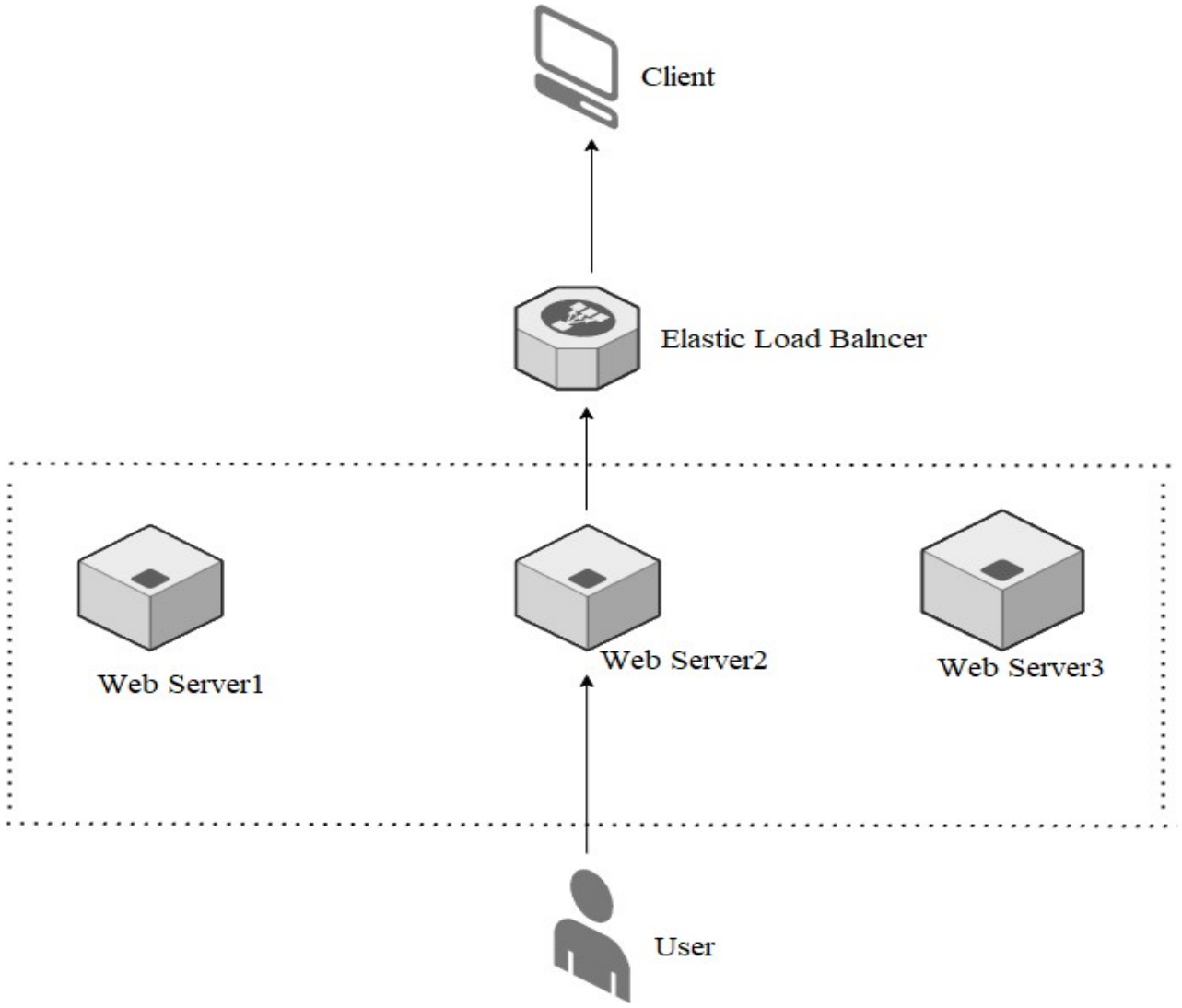
PROJECT 1

Create a web app and deploy it on EC2 instance with different Linux distributions. Web app has to have LOAD BALANCING, but deployment should be done with different user and website should be added by different AWS IAM user. And web app should have at least 3 html pages (more are always good).

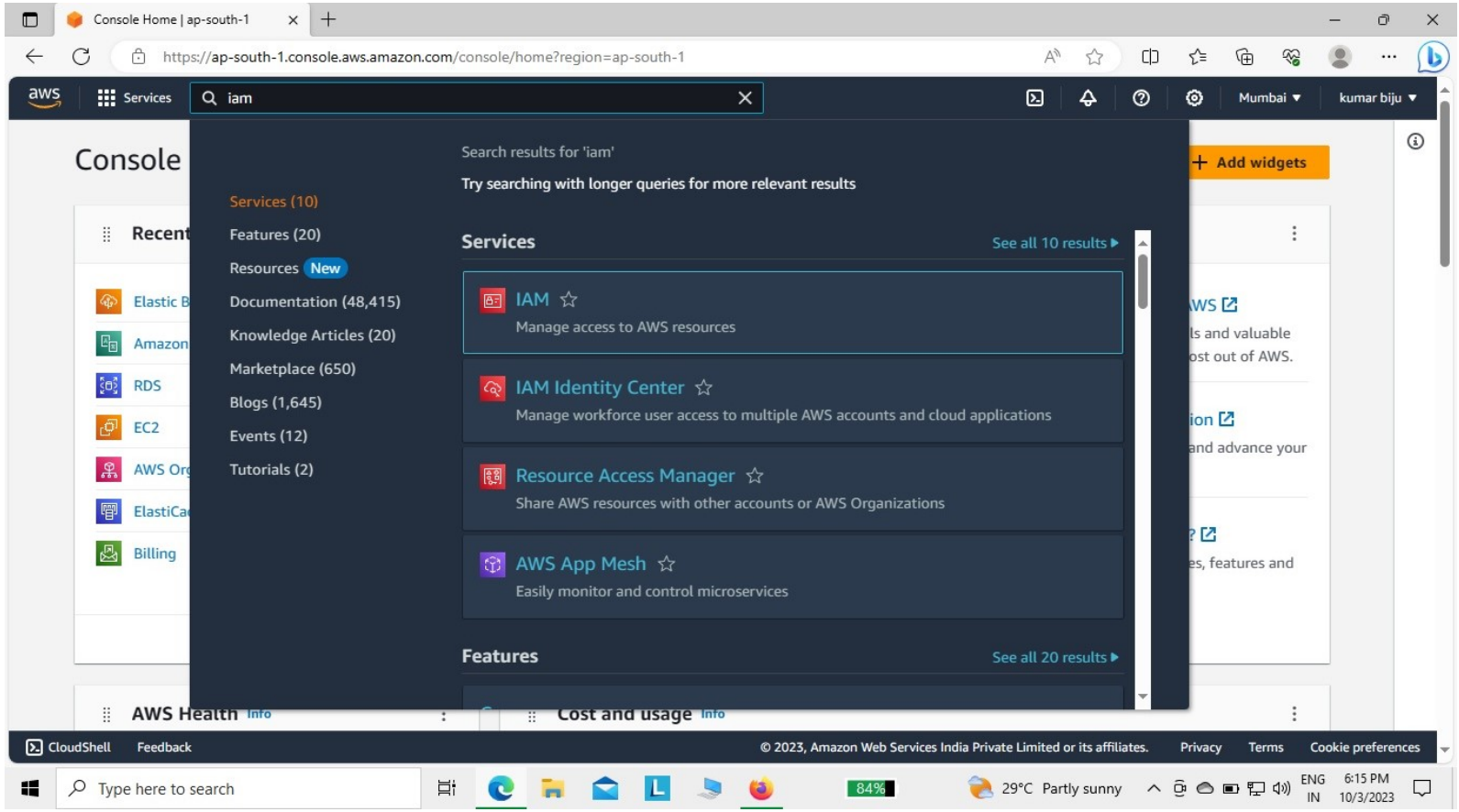
Create Architecture Diagram



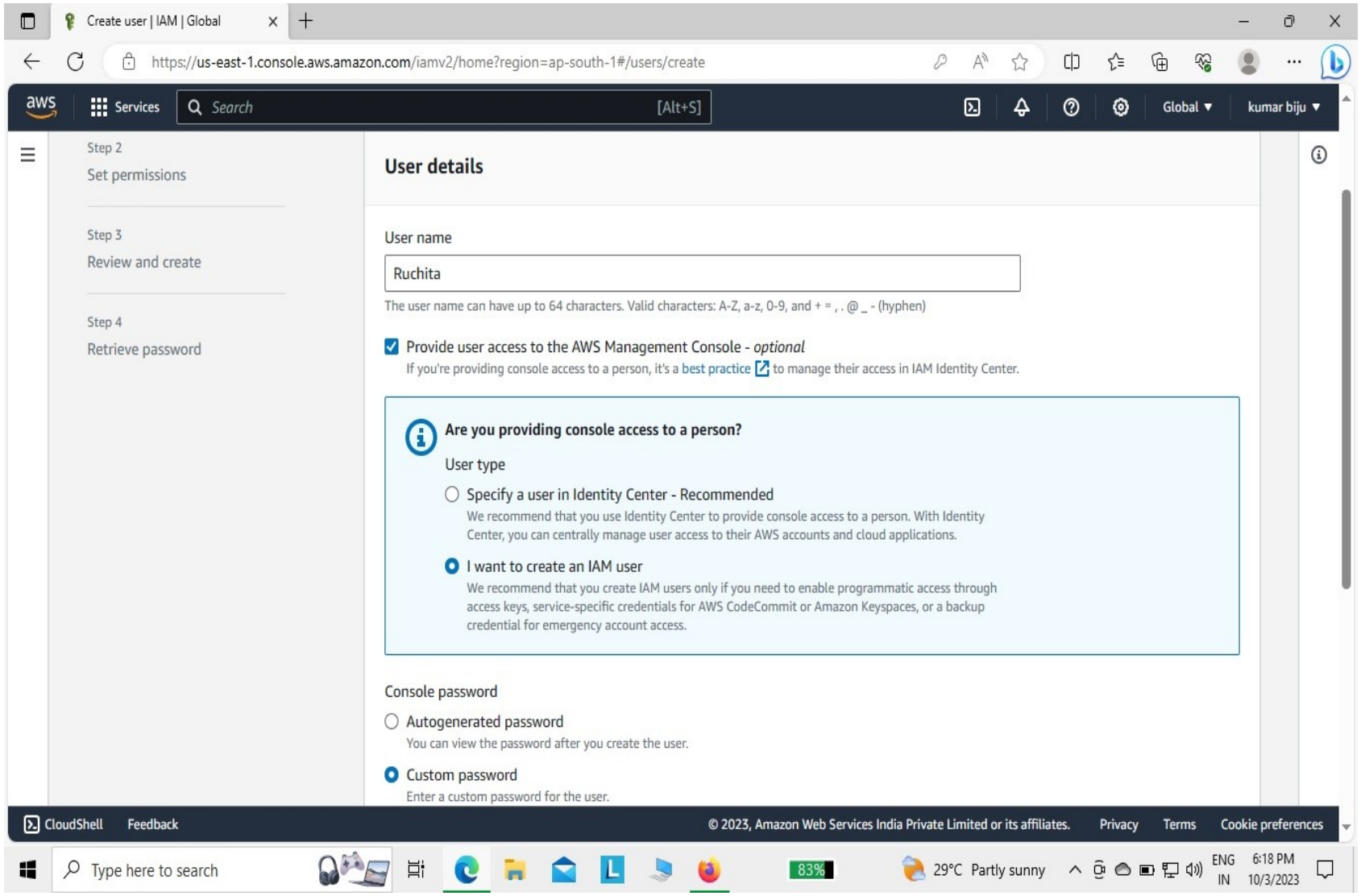
CREATE A IAM USER

Create a IAM user. First Login to AWS Console page and login root user as per guide. After login root user in AWS then Search IAM Page.

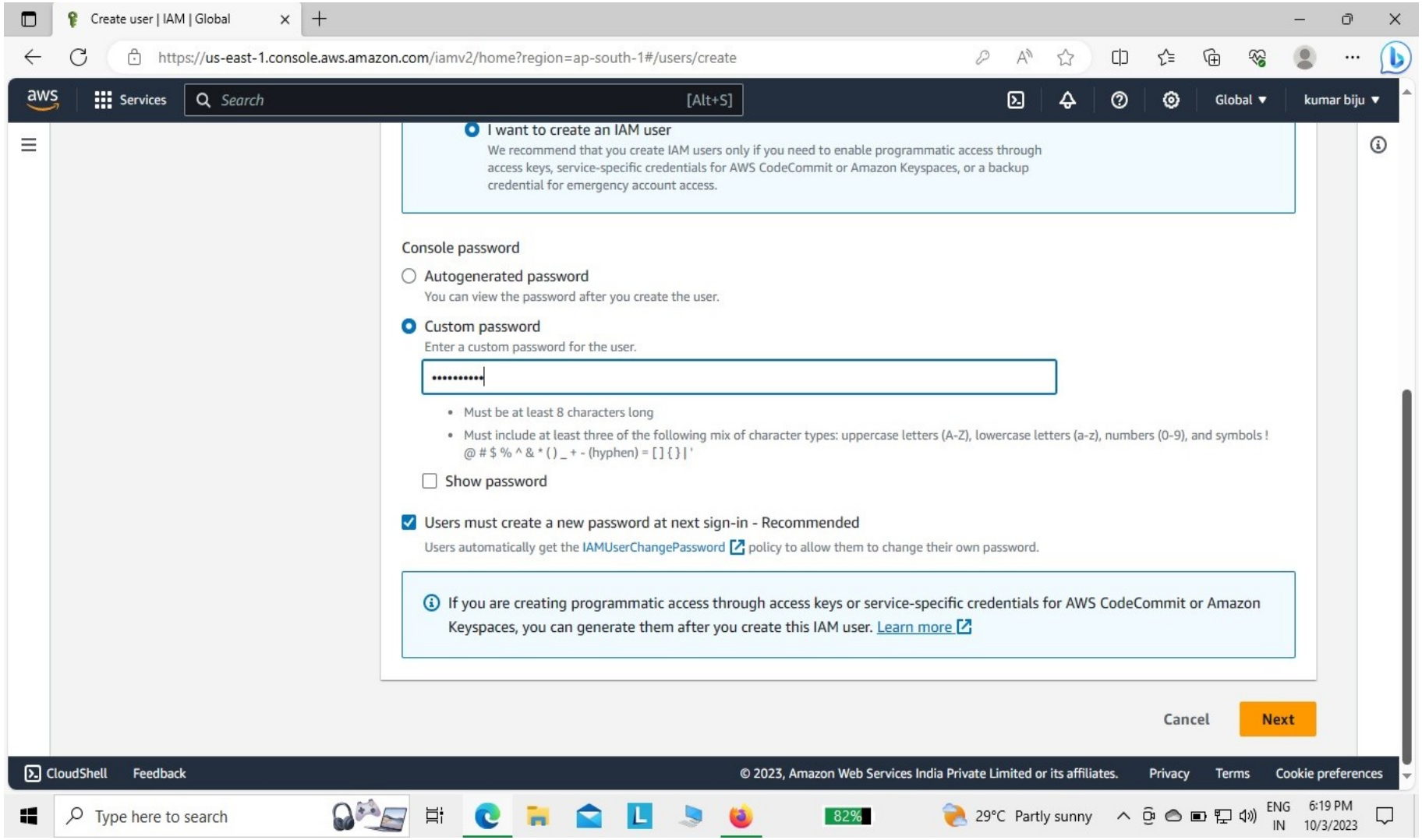
1.Search the IAM page and click the IAM button



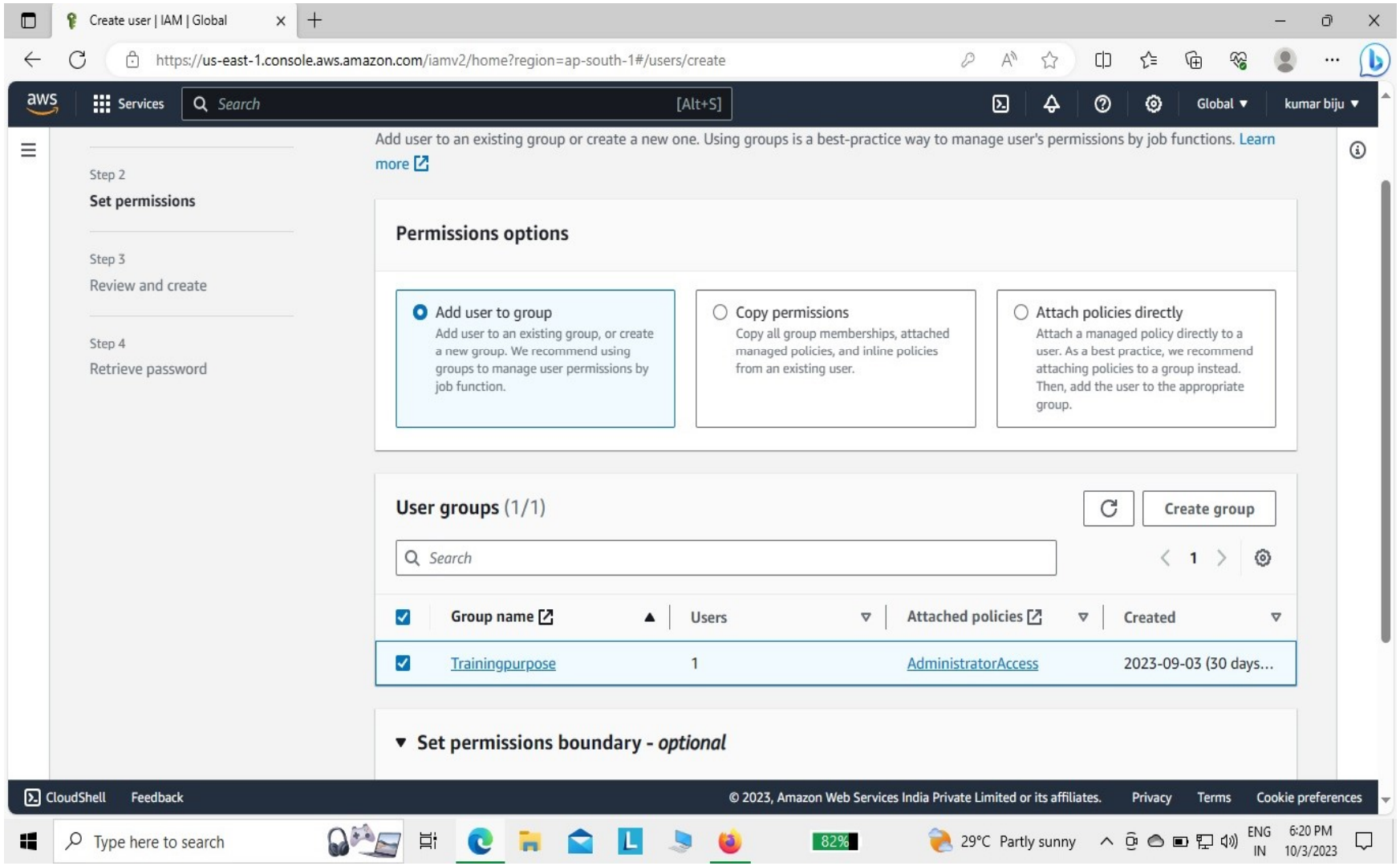
2.Give a name IAM user and scroll down.



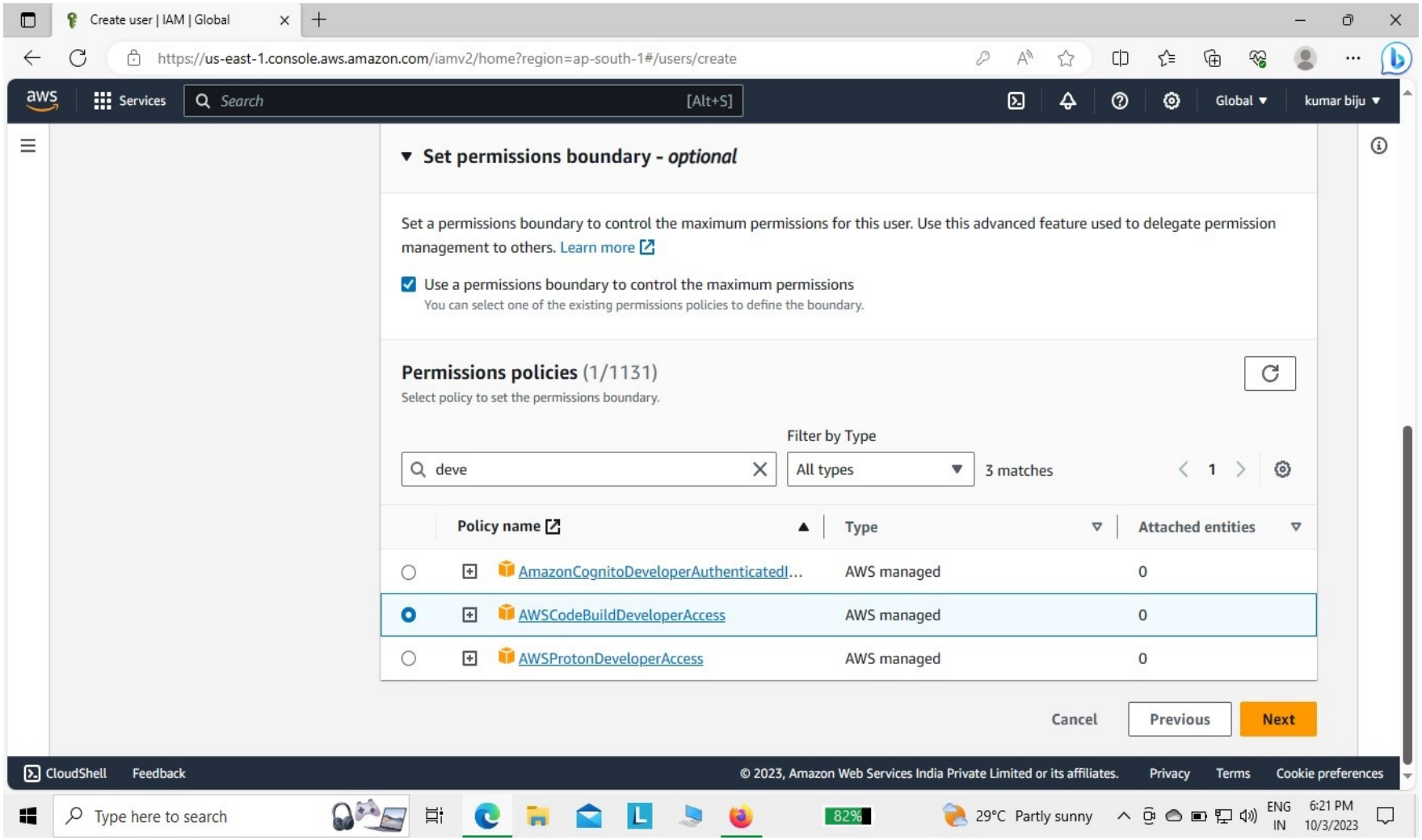
3.Create a custom Password and click next page



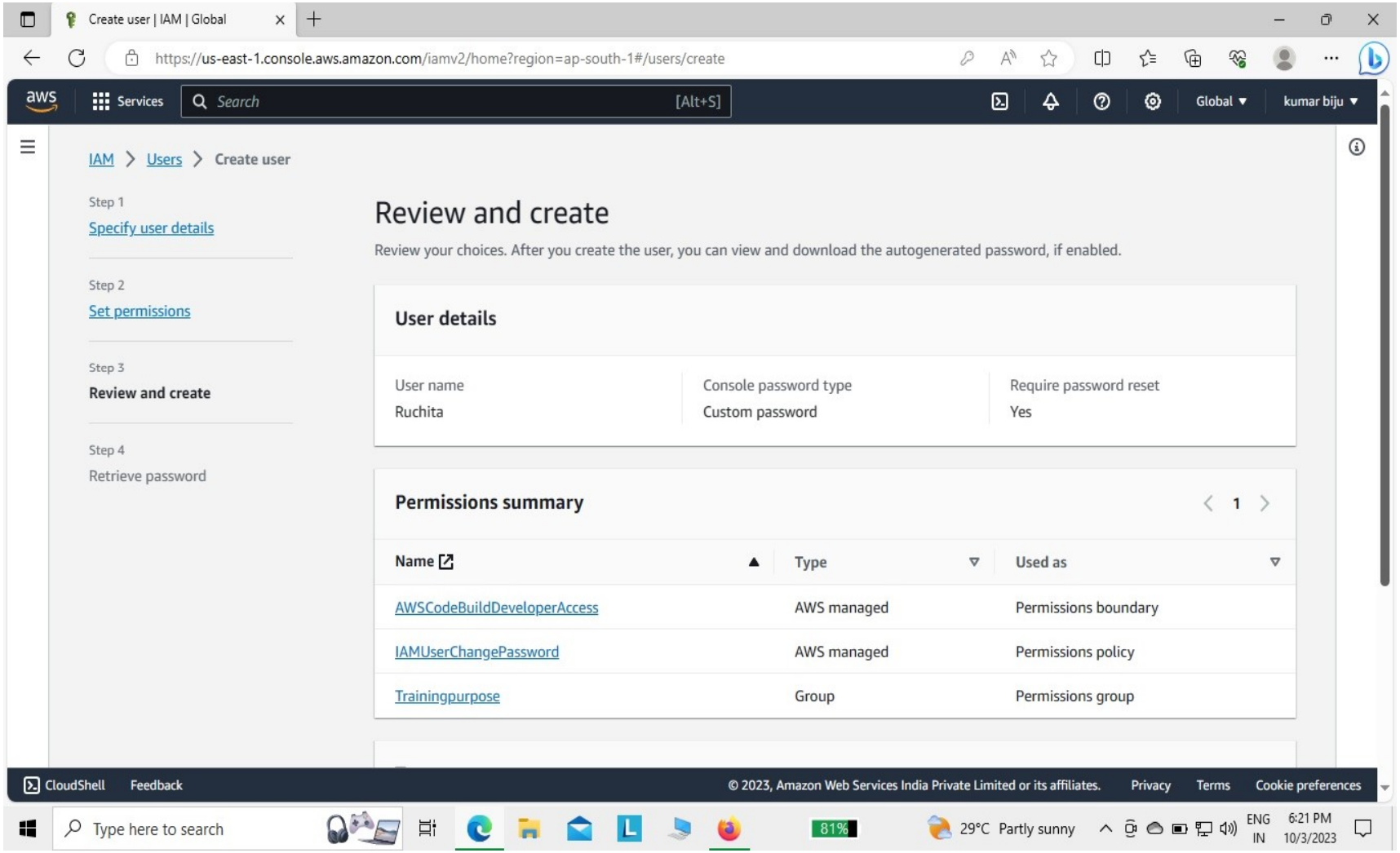
4. Assigned the group and click the scroll down page



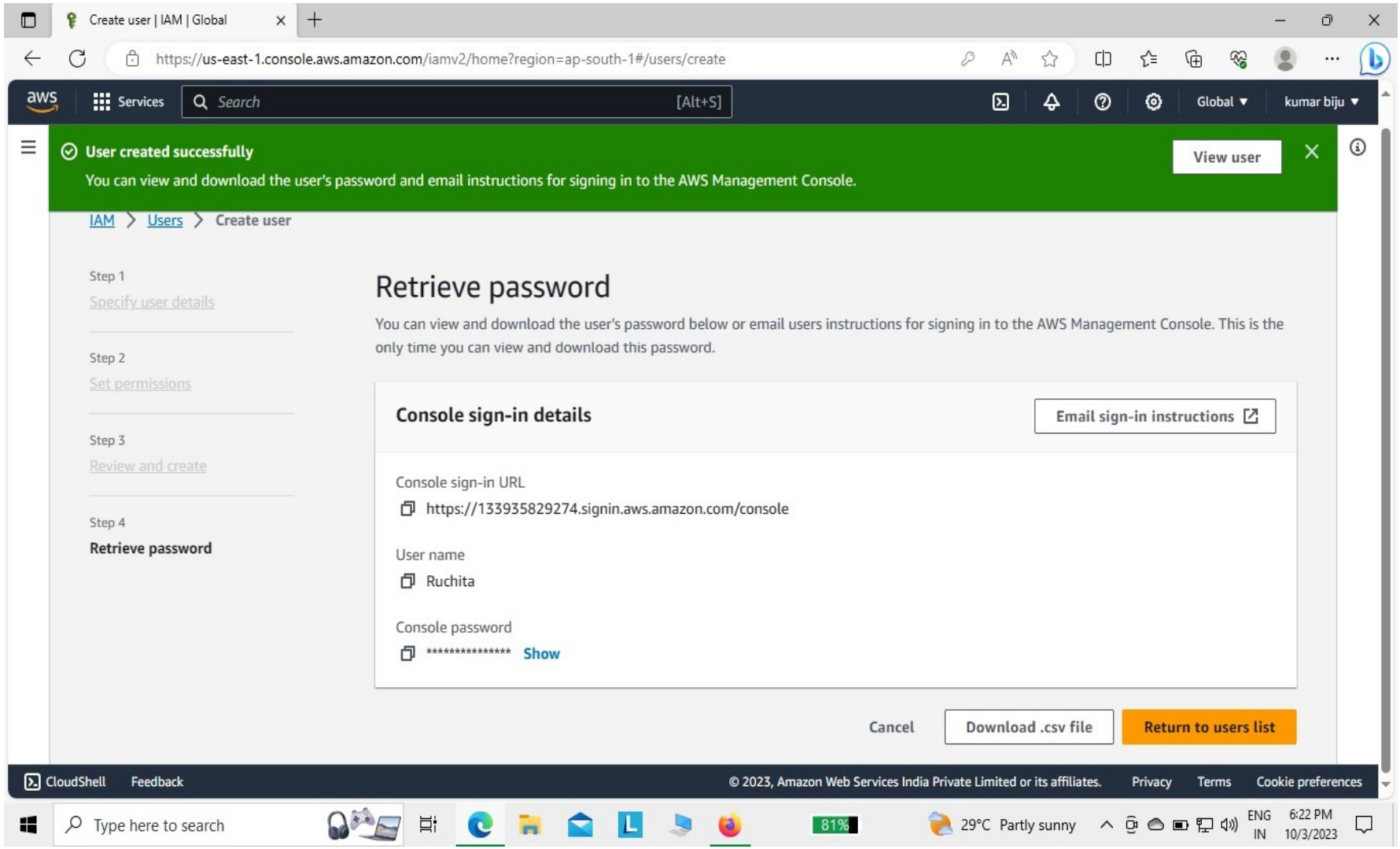
5.Give Administrative access and click the next page



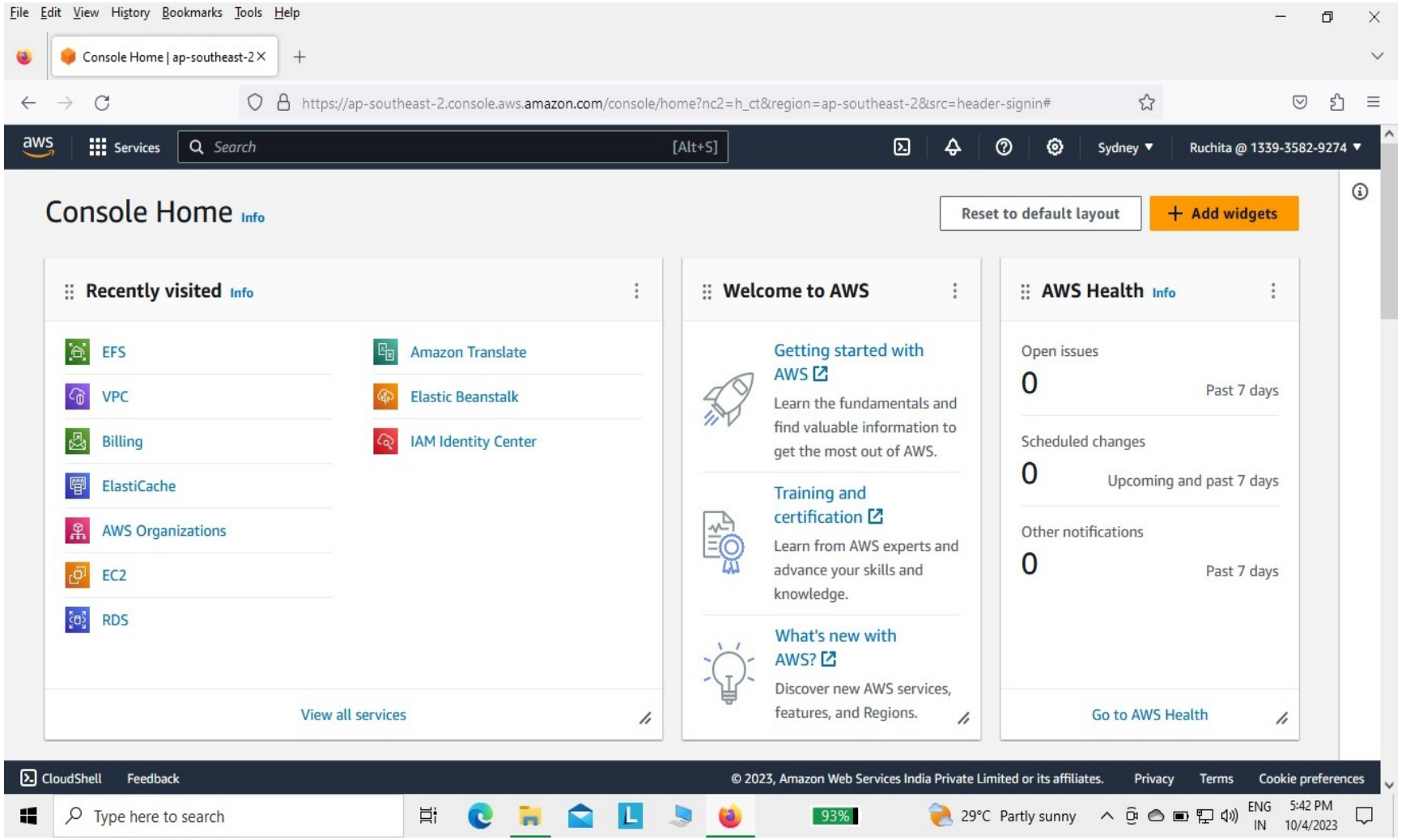
6. Now review and create a IAM user



7. Now Successfully create IAM user. Now download user credential future reference

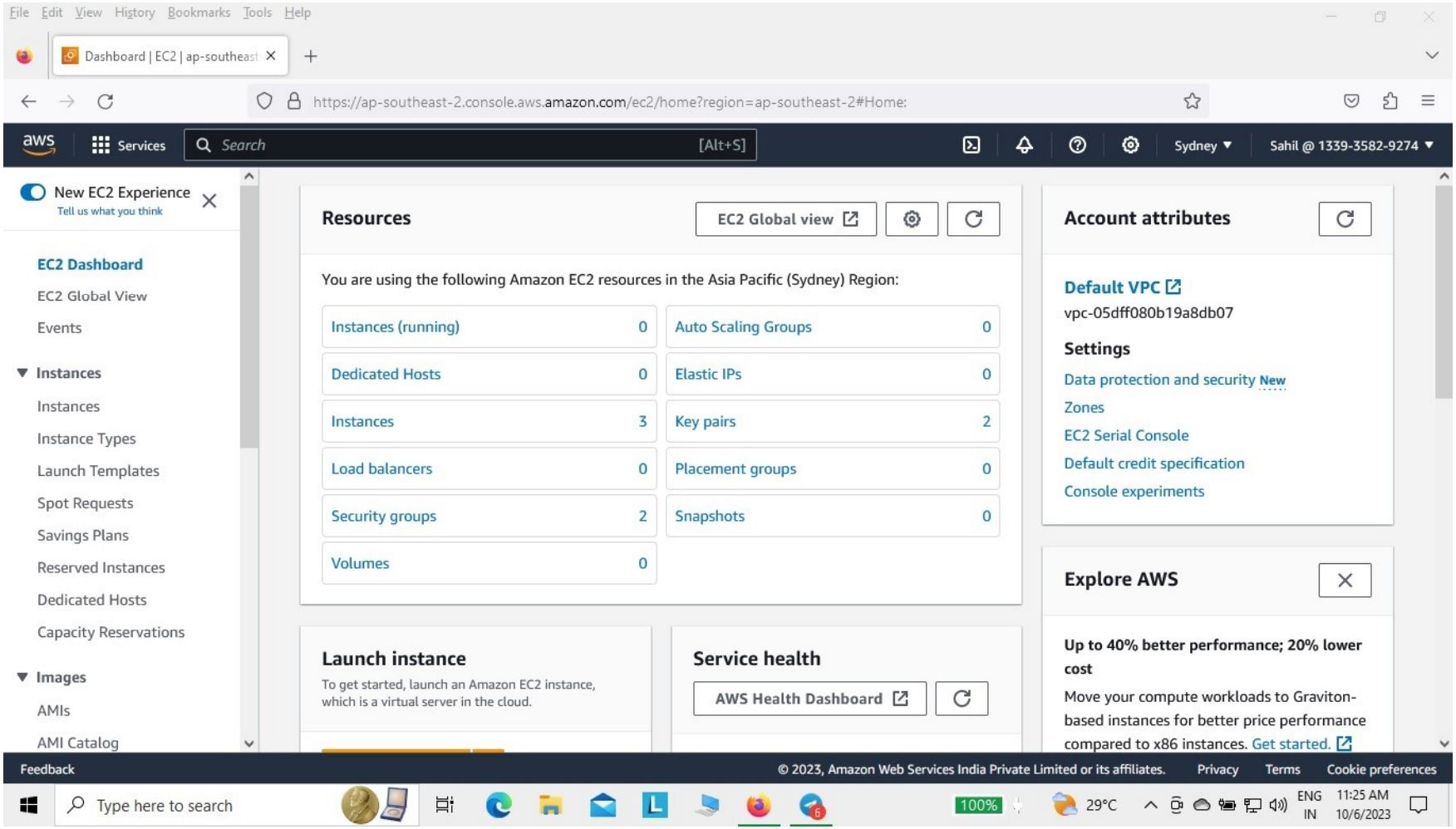


After successfully create IAM user then login AWS consol page and click IAM user and Give username and password now open IAM user Page.



CREATE A SECOND IAM USER

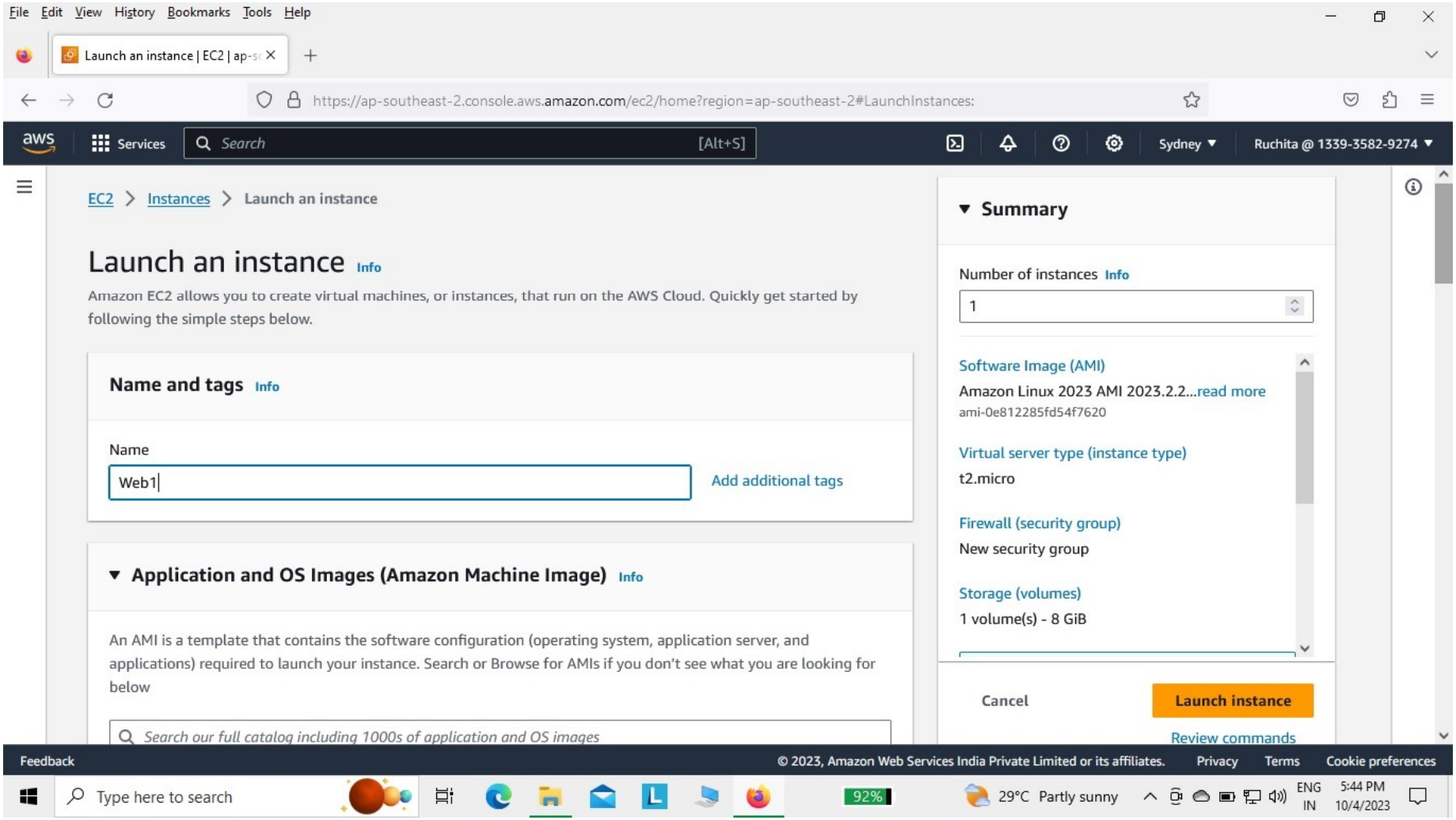
Create a IAM user. First Login to AWS Console page and login root user as per guide. After login root user in AWS then Search IAM Page.
Follow the previous step 1to 7 and now create successfully second IAM User.



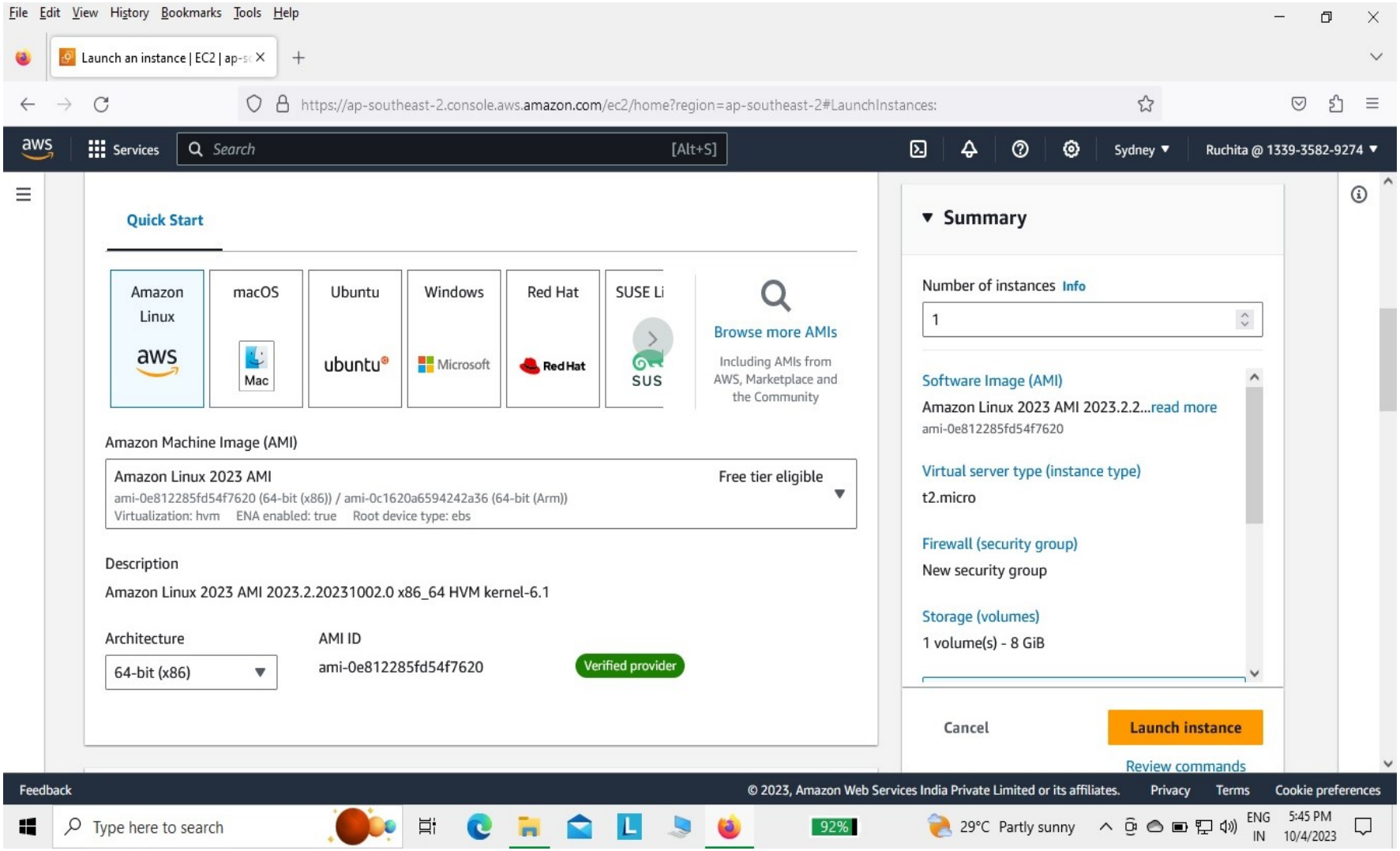
CREATE A EC2 INSTANCE

Go to search and type EC2 and click create button.

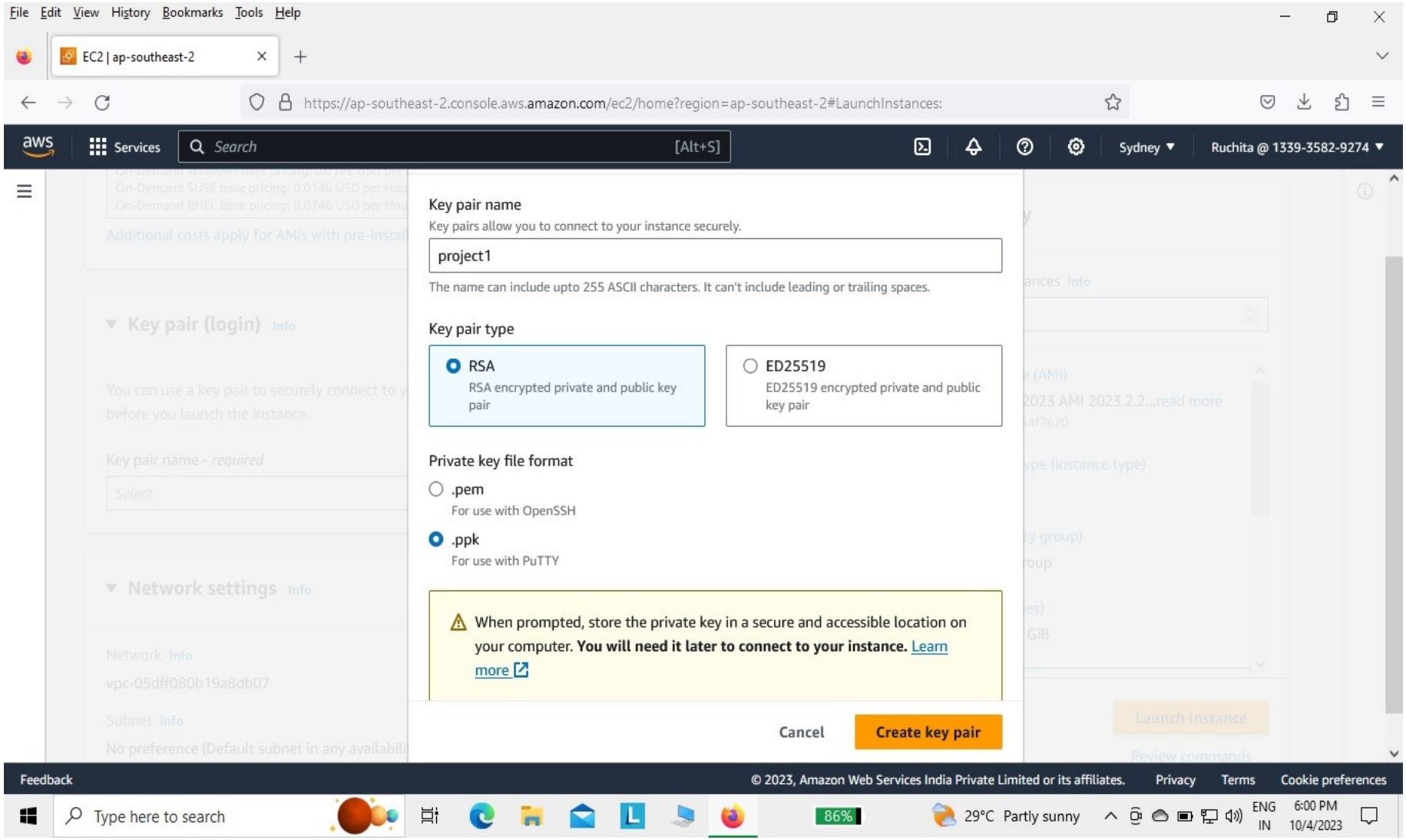
1.Create a Ec2 instance and name is Web1.



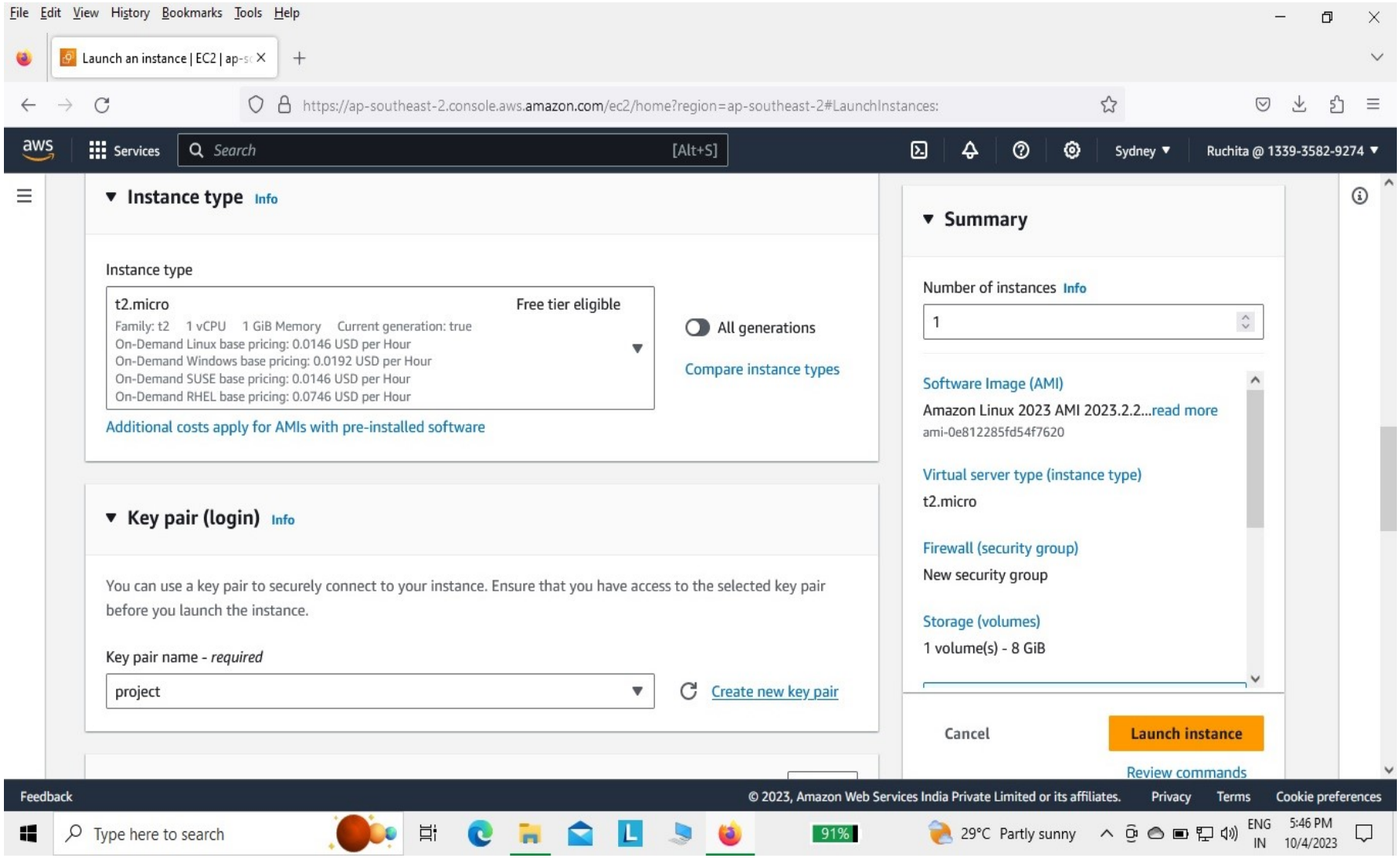
2. Choose AMI image Amazon Linux as per configuration



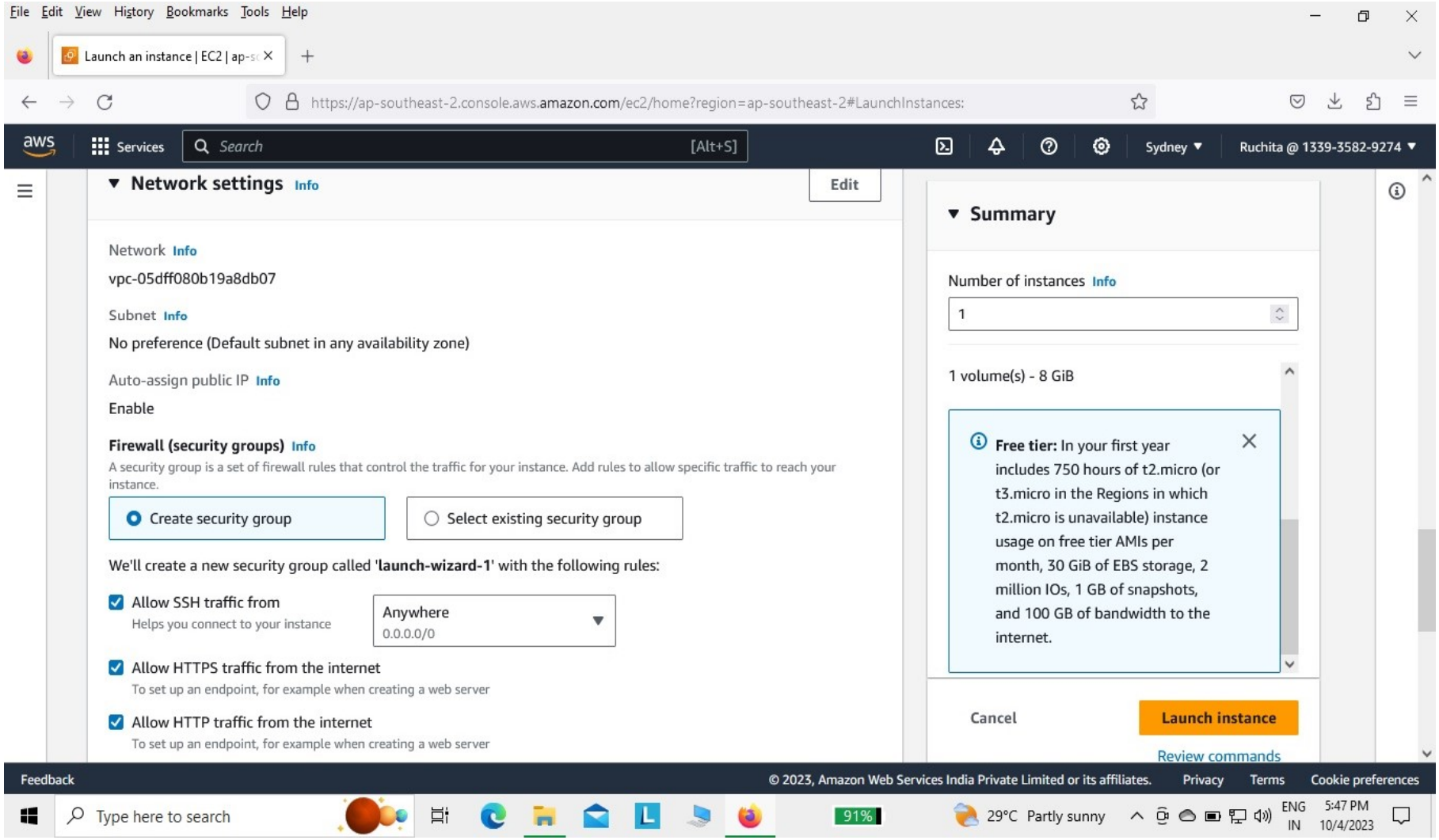
3.Create a key pair and give name project1



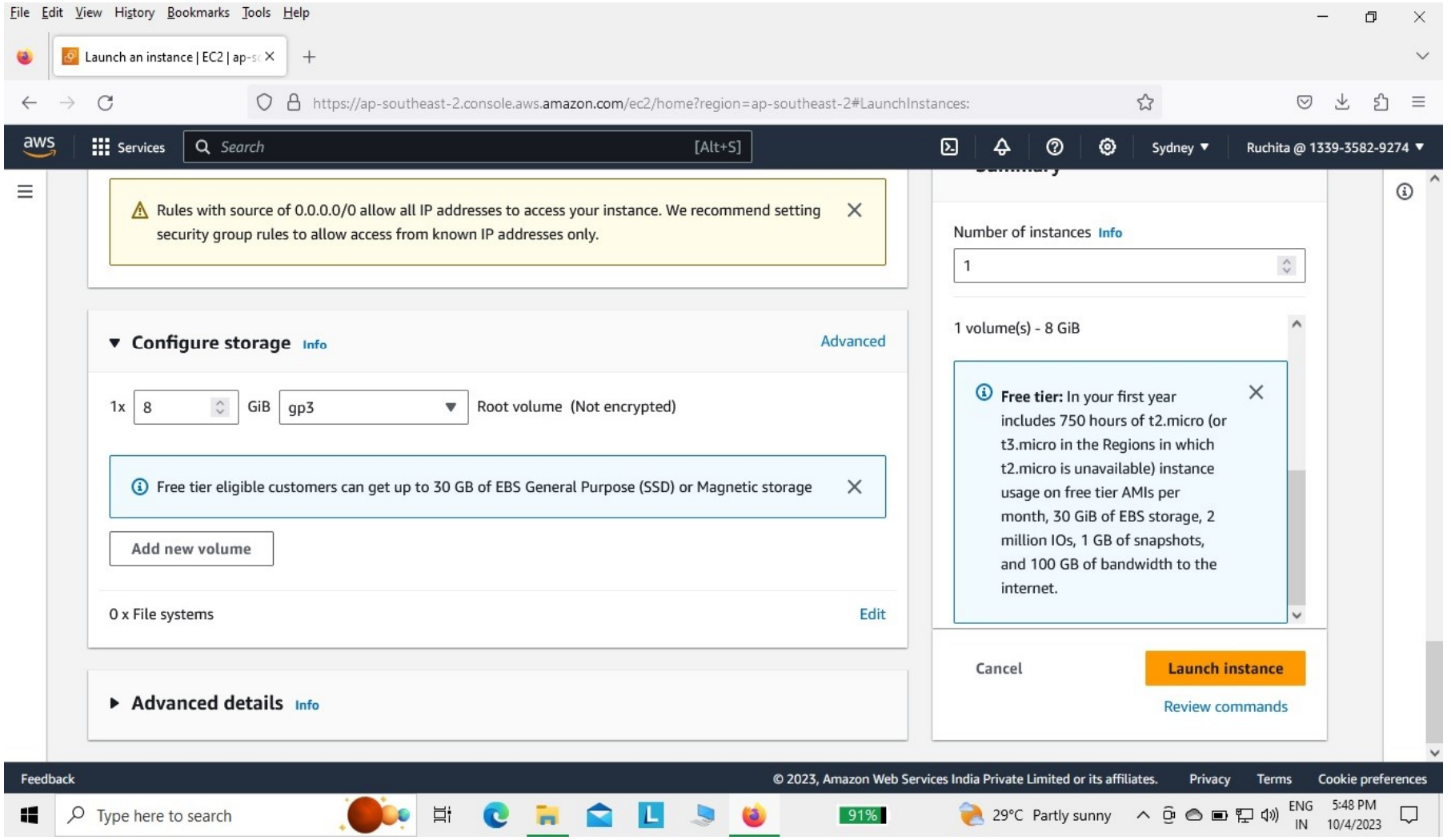
4.Select the key pair and scroll down page



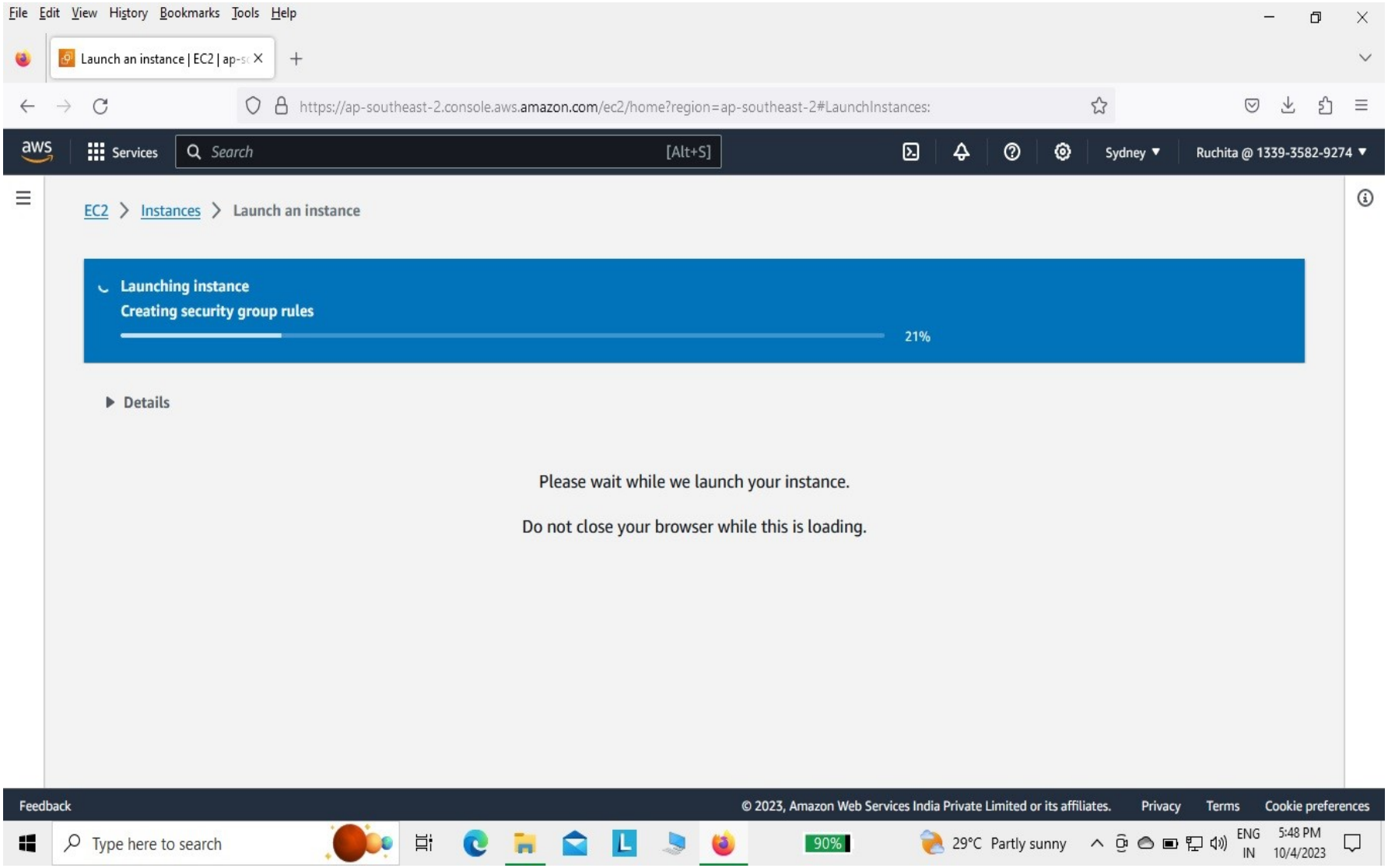
5.Create a Security Group and allow HTTP and HTTPS



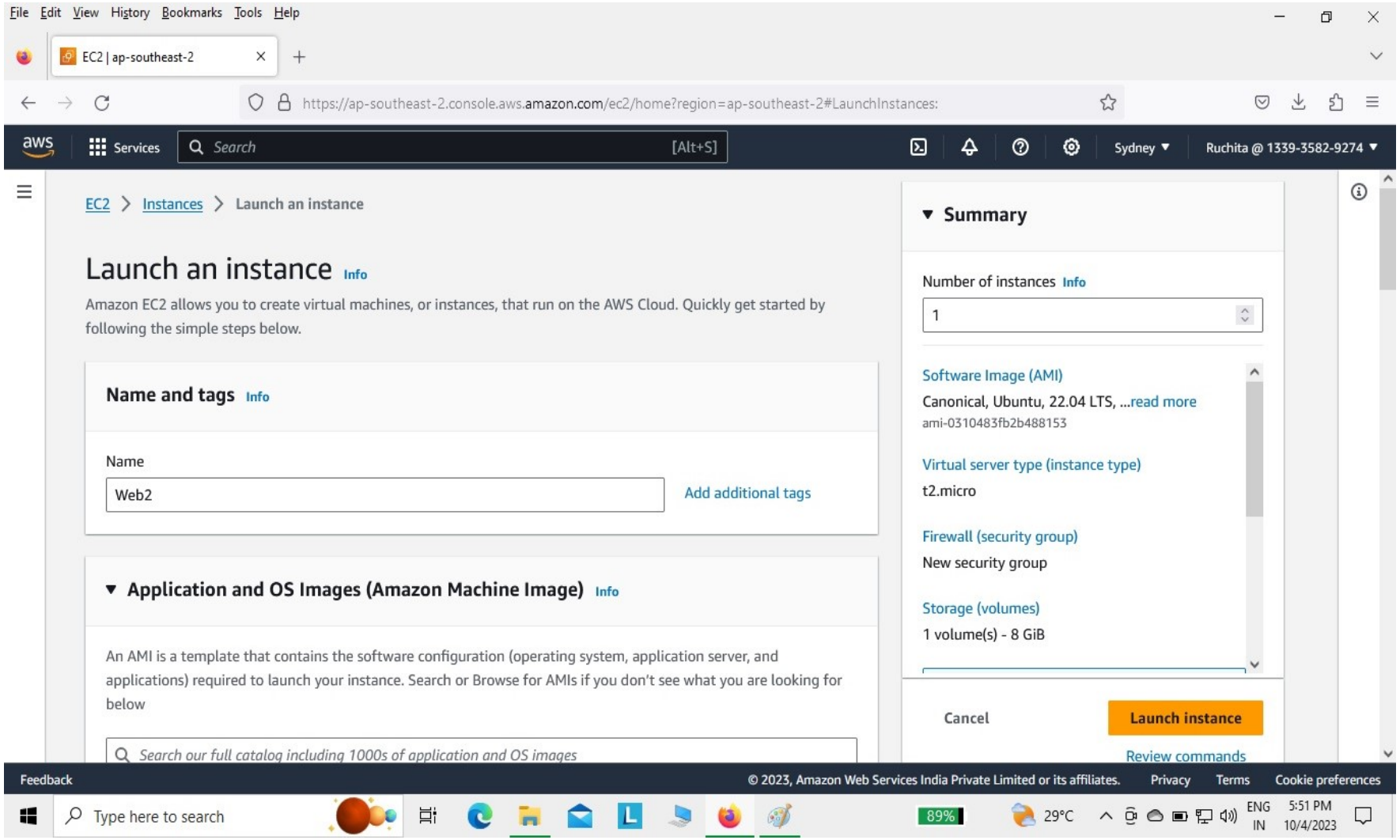
6.Configure the storage for ec2 instance and click the Launch Instance



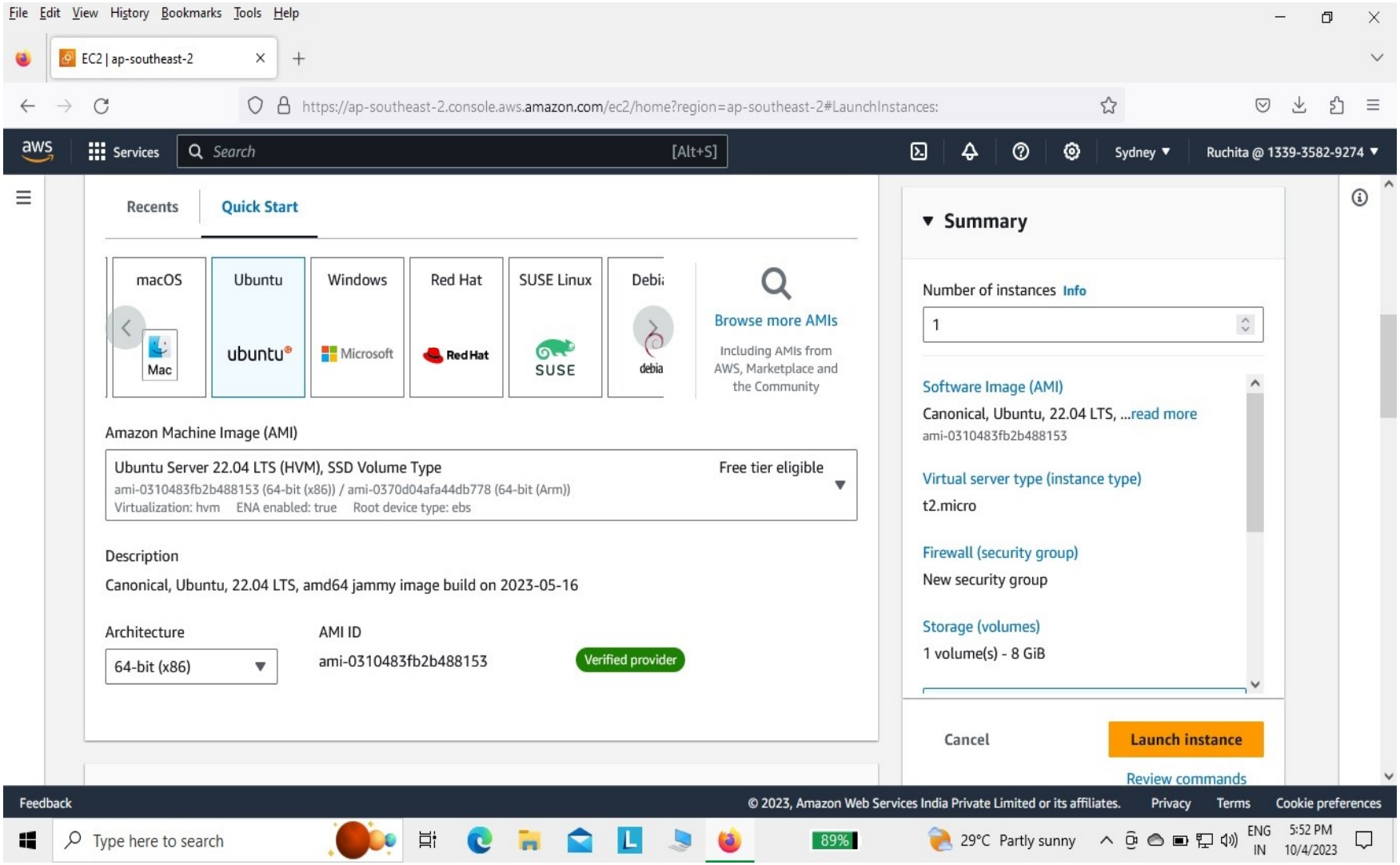
7.Now ec2 is launching in few minutes



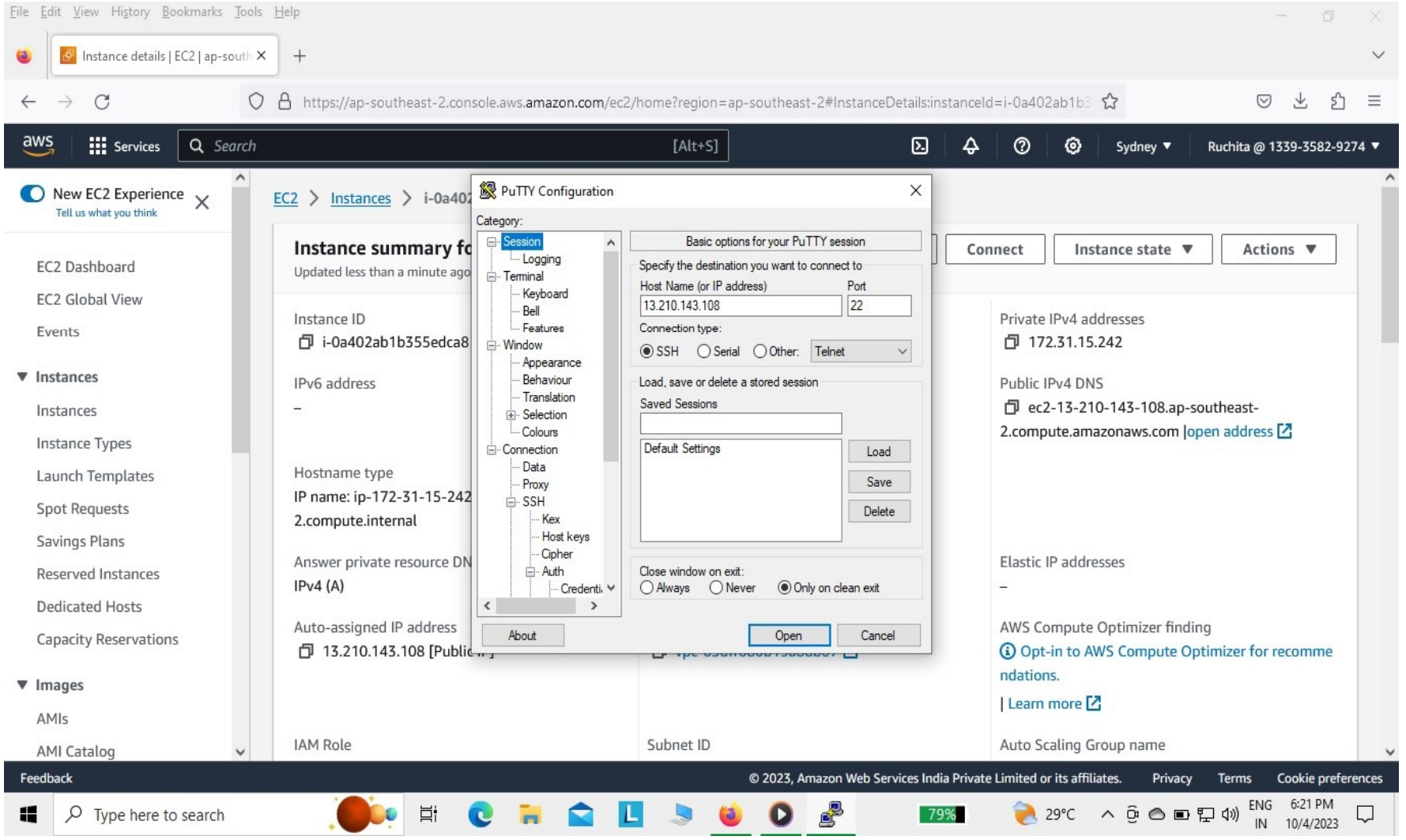
8.Create a another new instance and give a name Web2



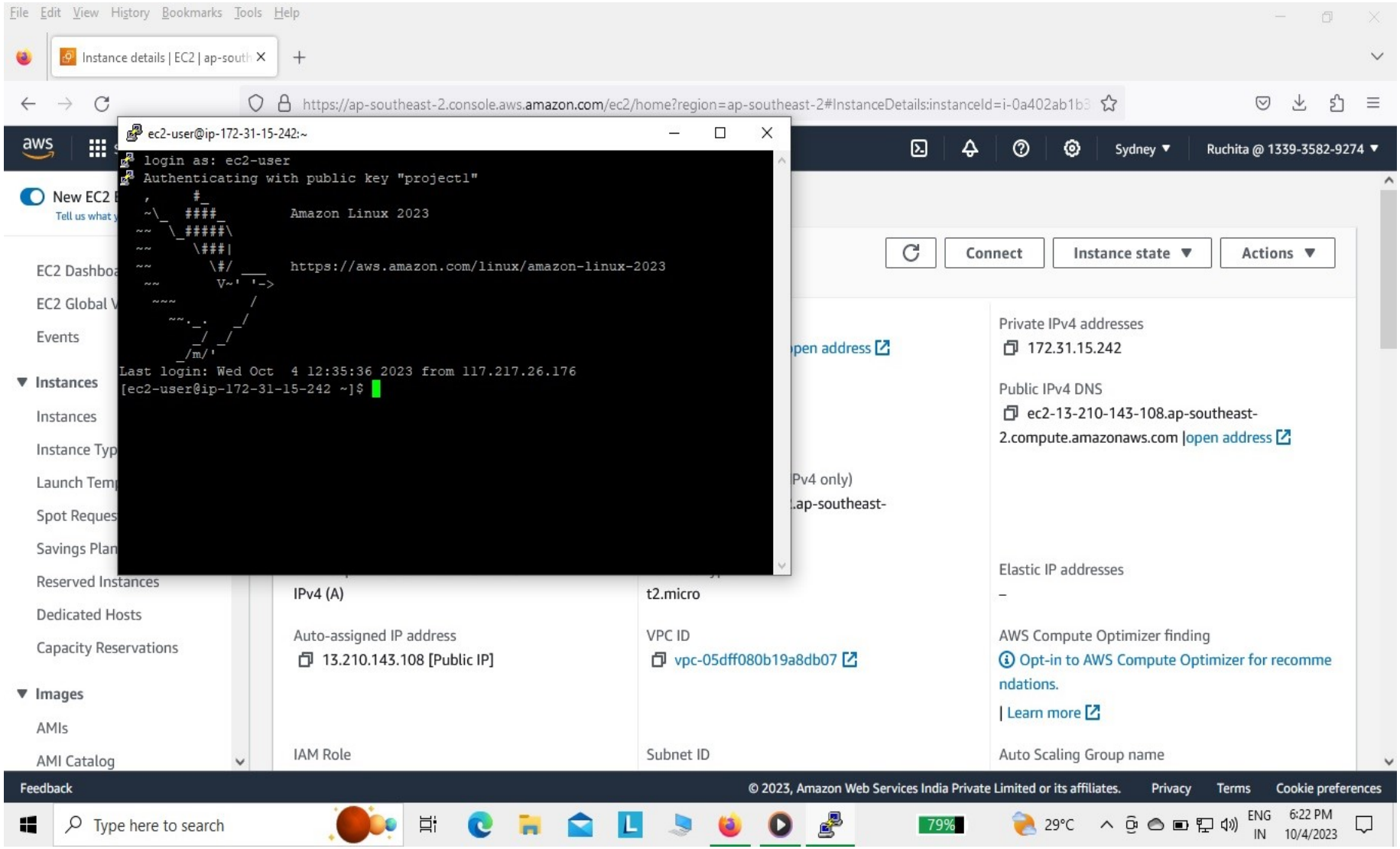
9. Choose the AMI image Ubuntu.
Repeat the previous step 3 to 6.



10. Connect ec2 instance via Putty. Input IP address or credential and click open button

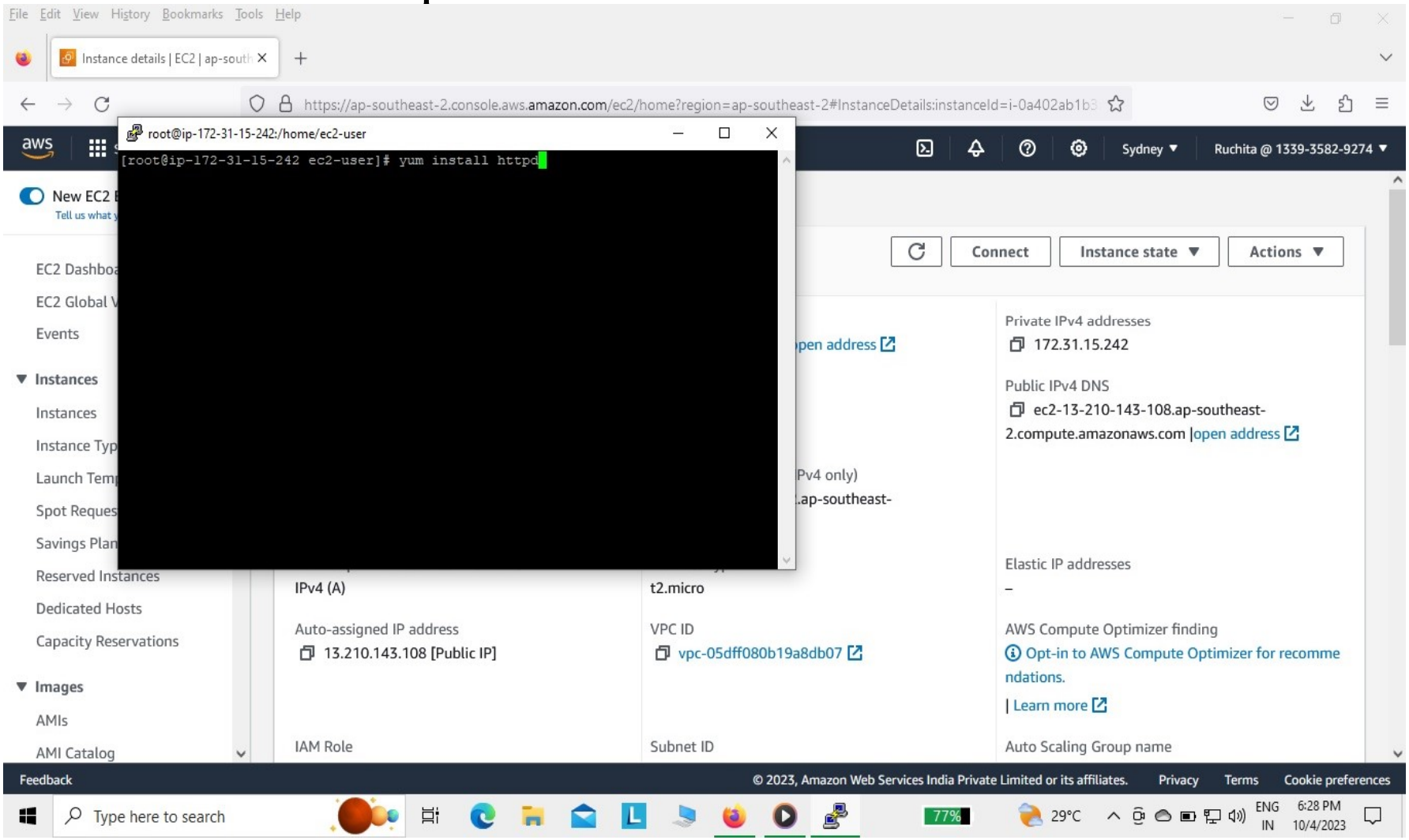


Now Amazon Linux is connect and login

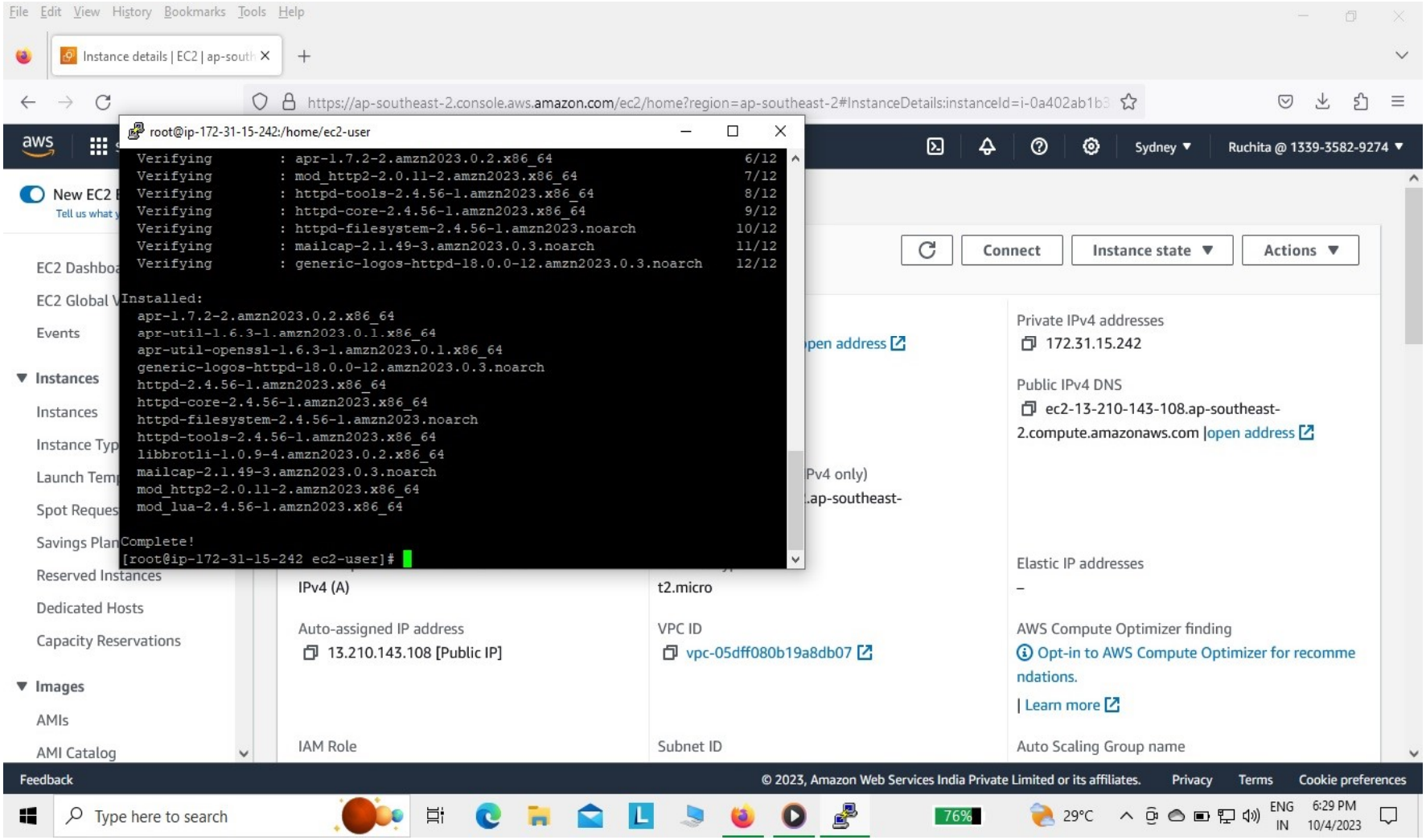


Create a Html Page

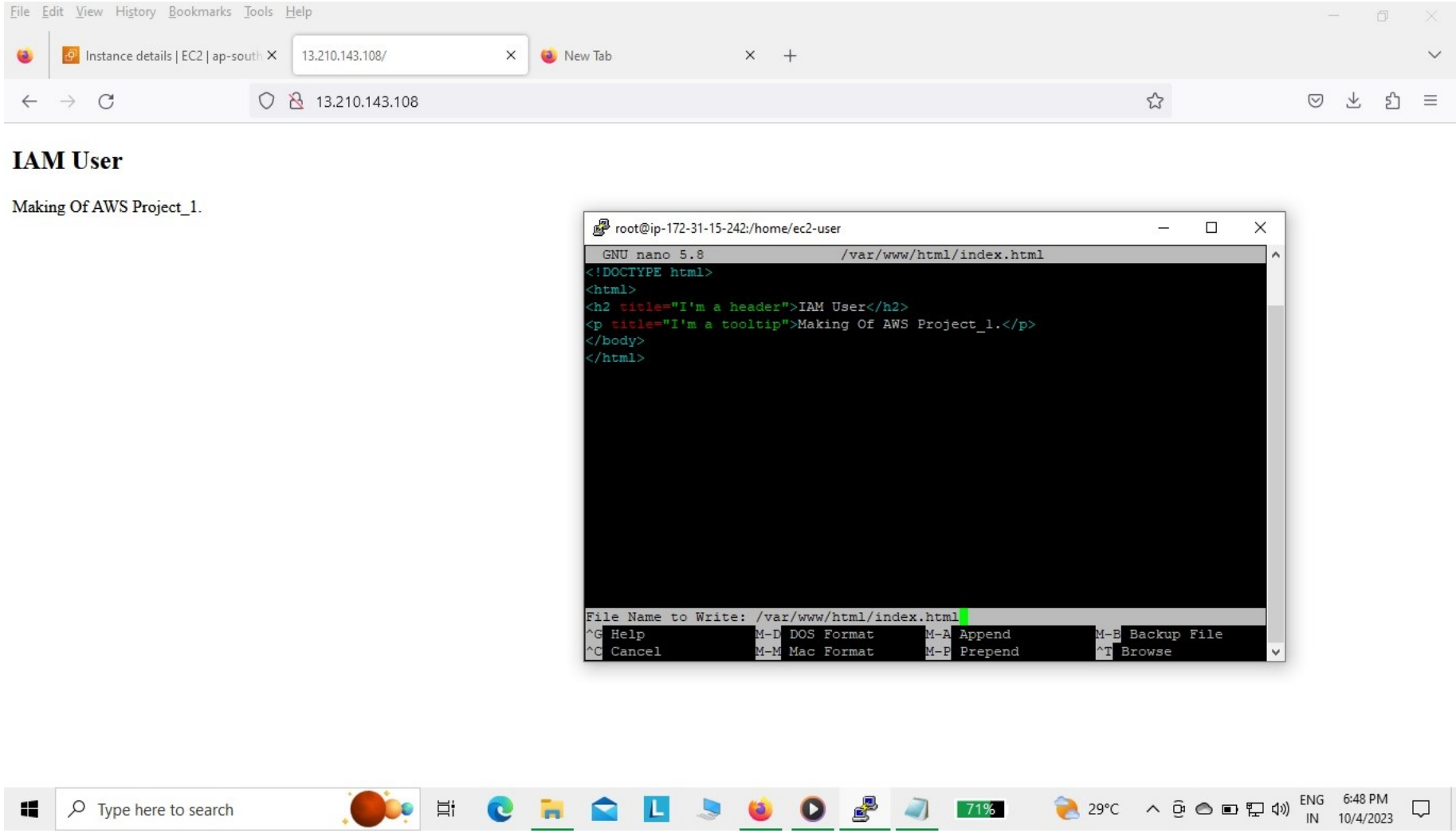
1.First go to root user in Amazon Linux and install the httpd server in Amazon Linux



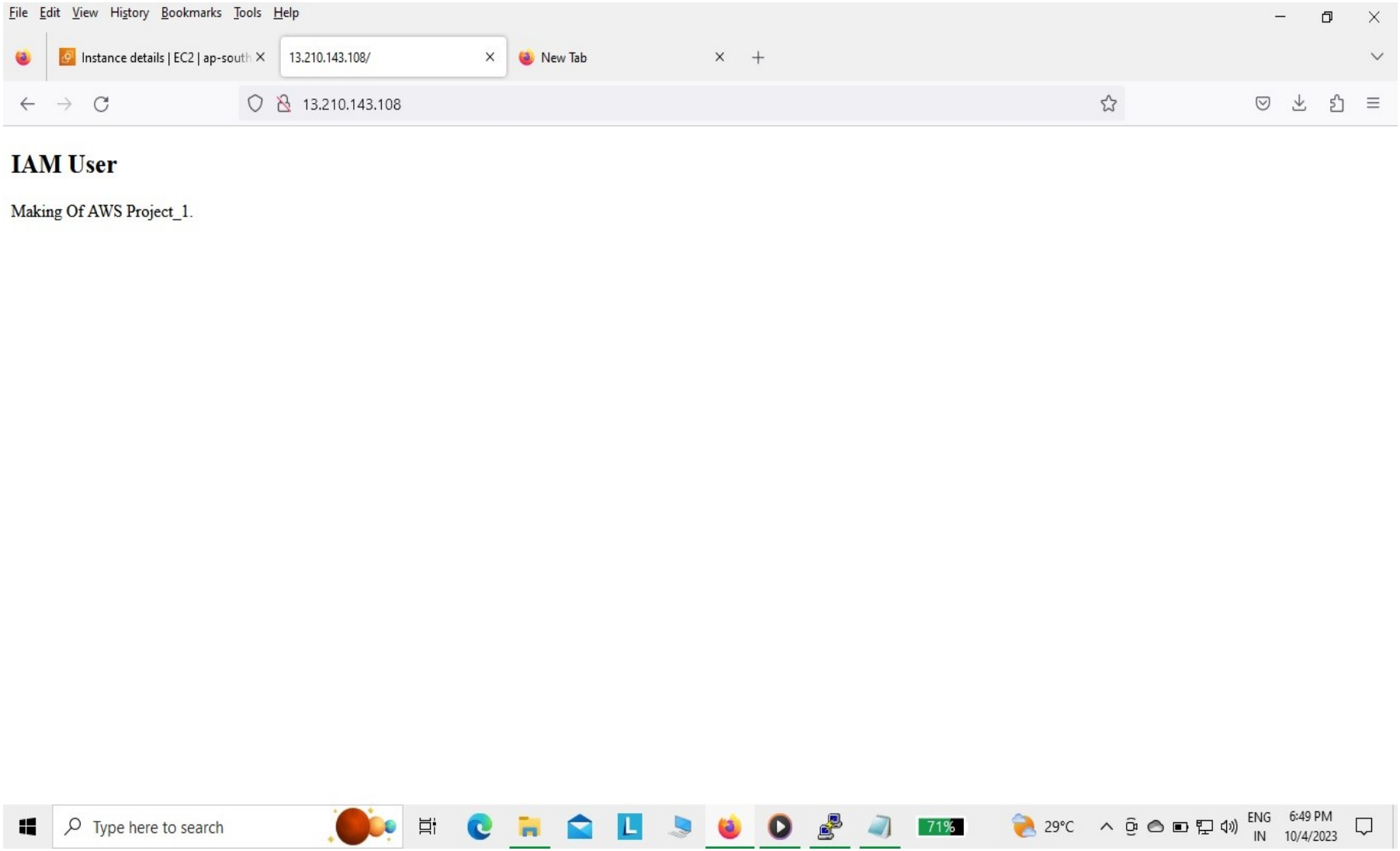
2.Installation procedure is complete. Now create a HTML page.



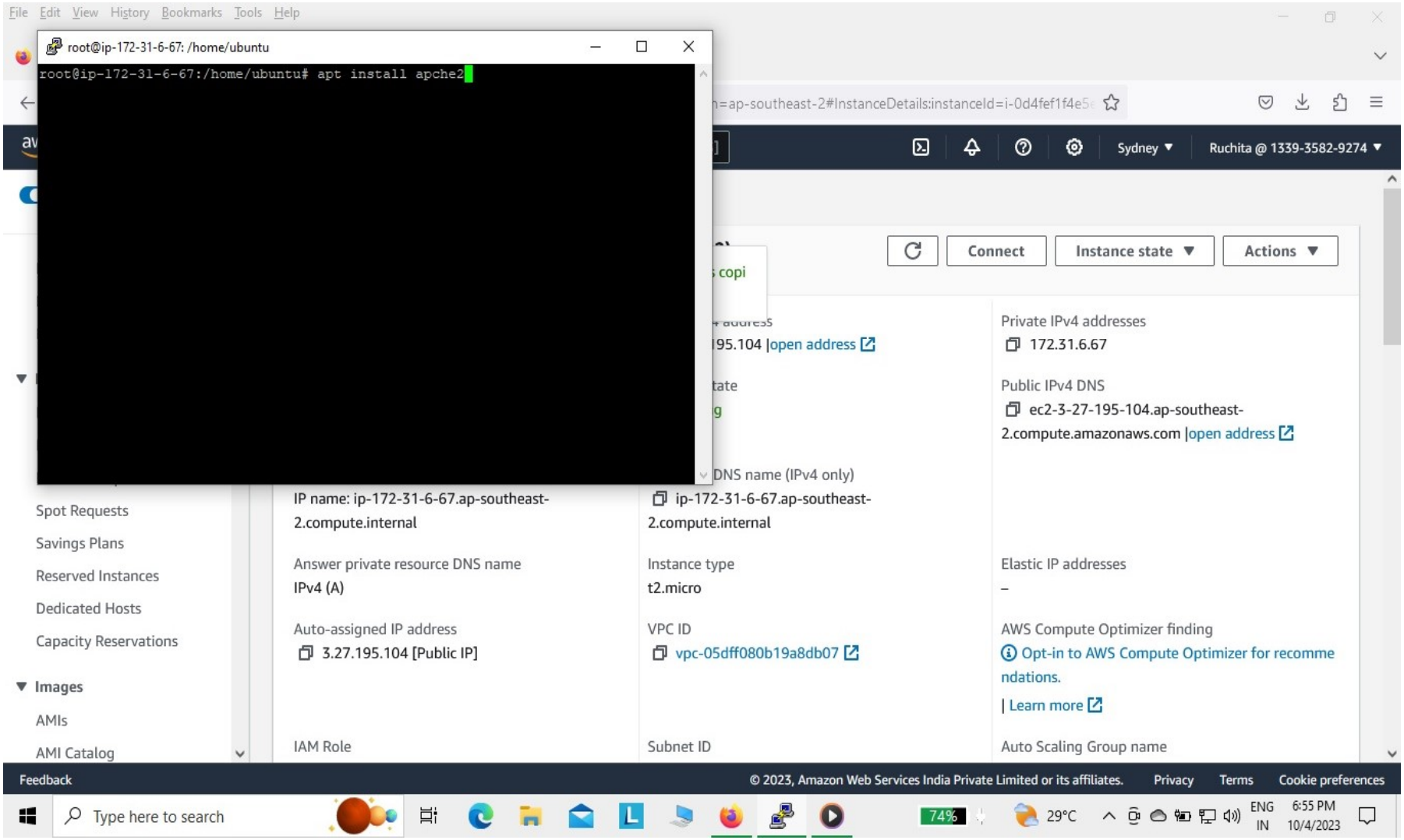
3.Write HTML code and save. And run through browser via IP address



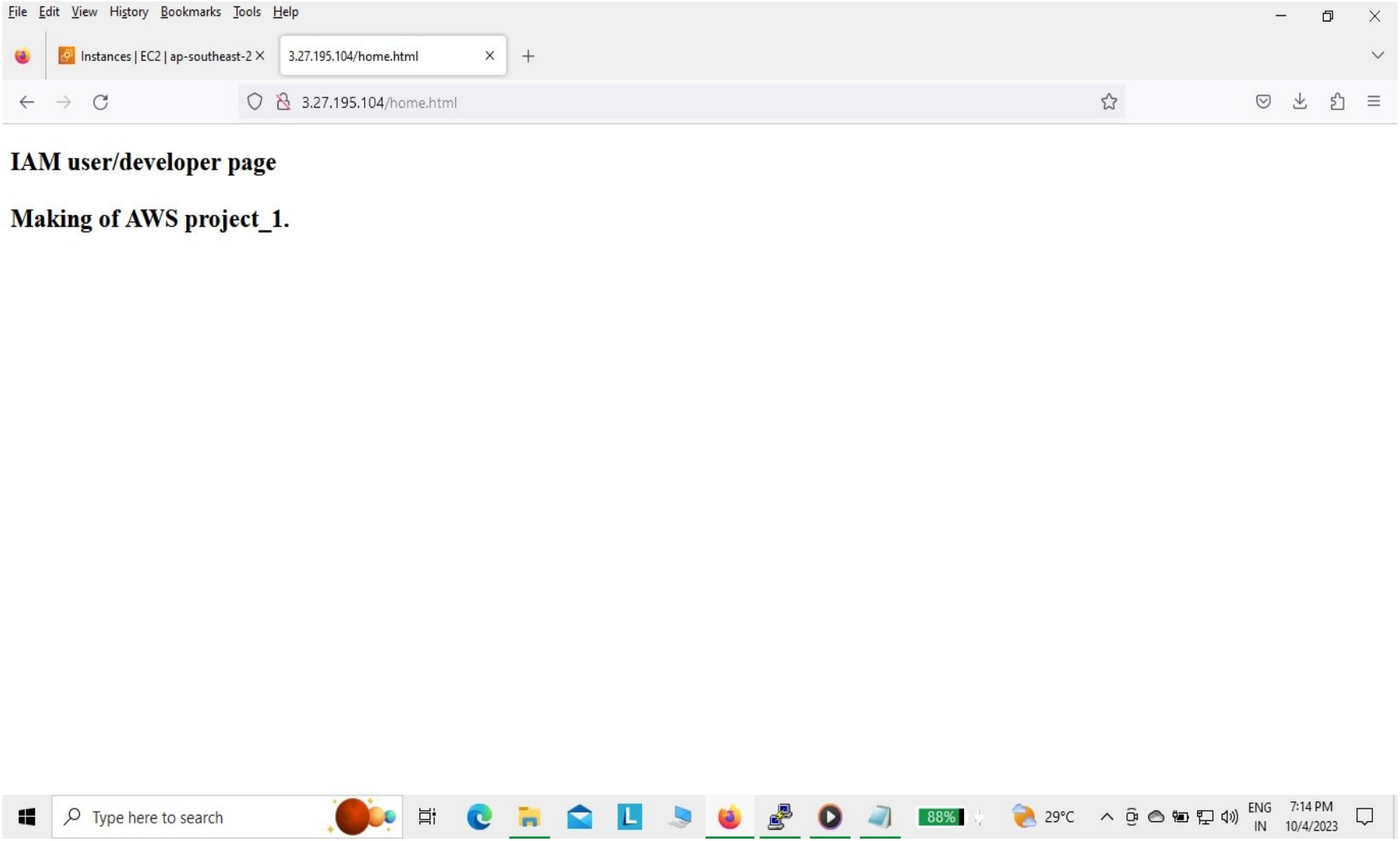
Now website is running successfully



4. Connect the another instance through putty and install apache2 server

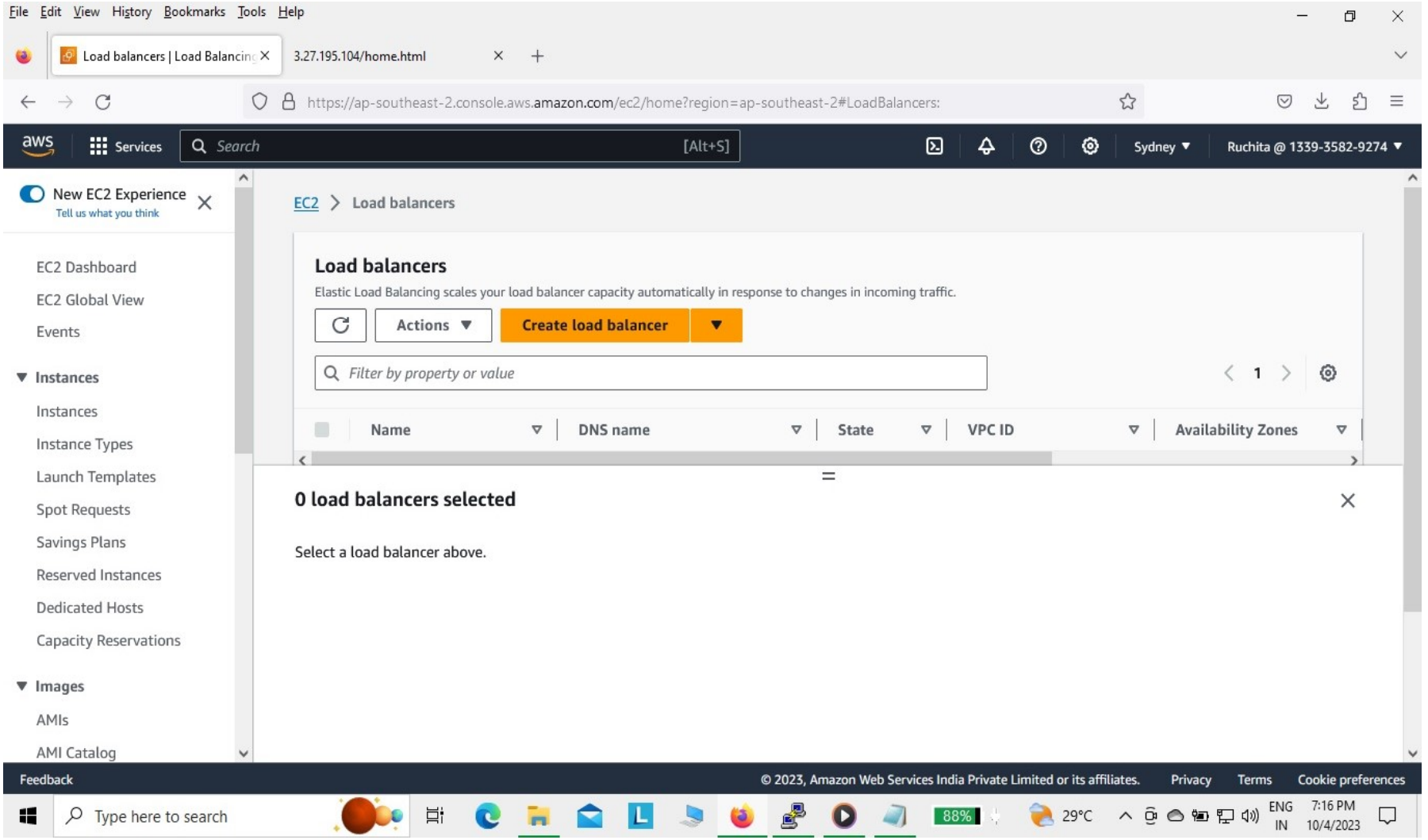


Repeat the previous step 3. And now website running successfully.

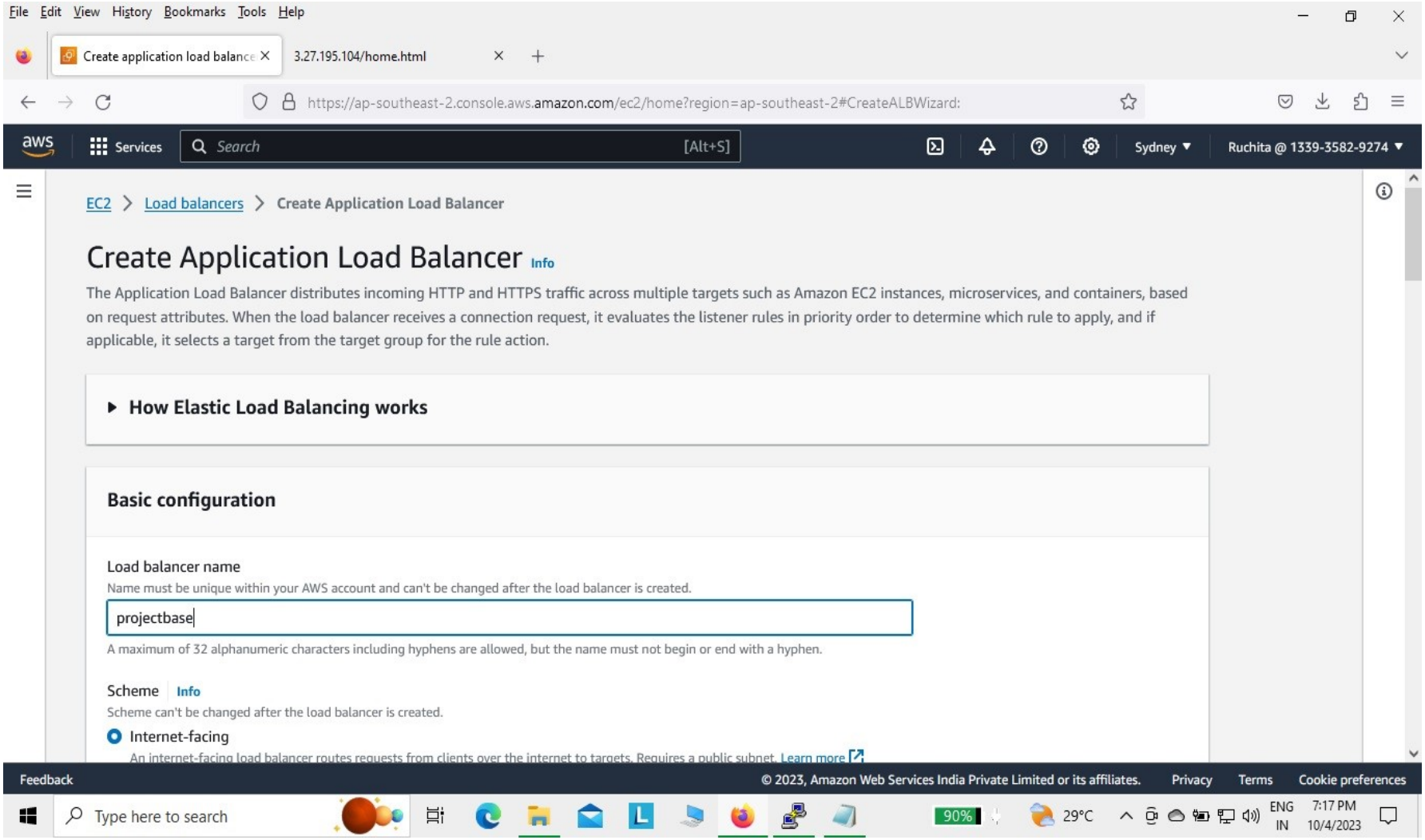


Create a Load Balancer

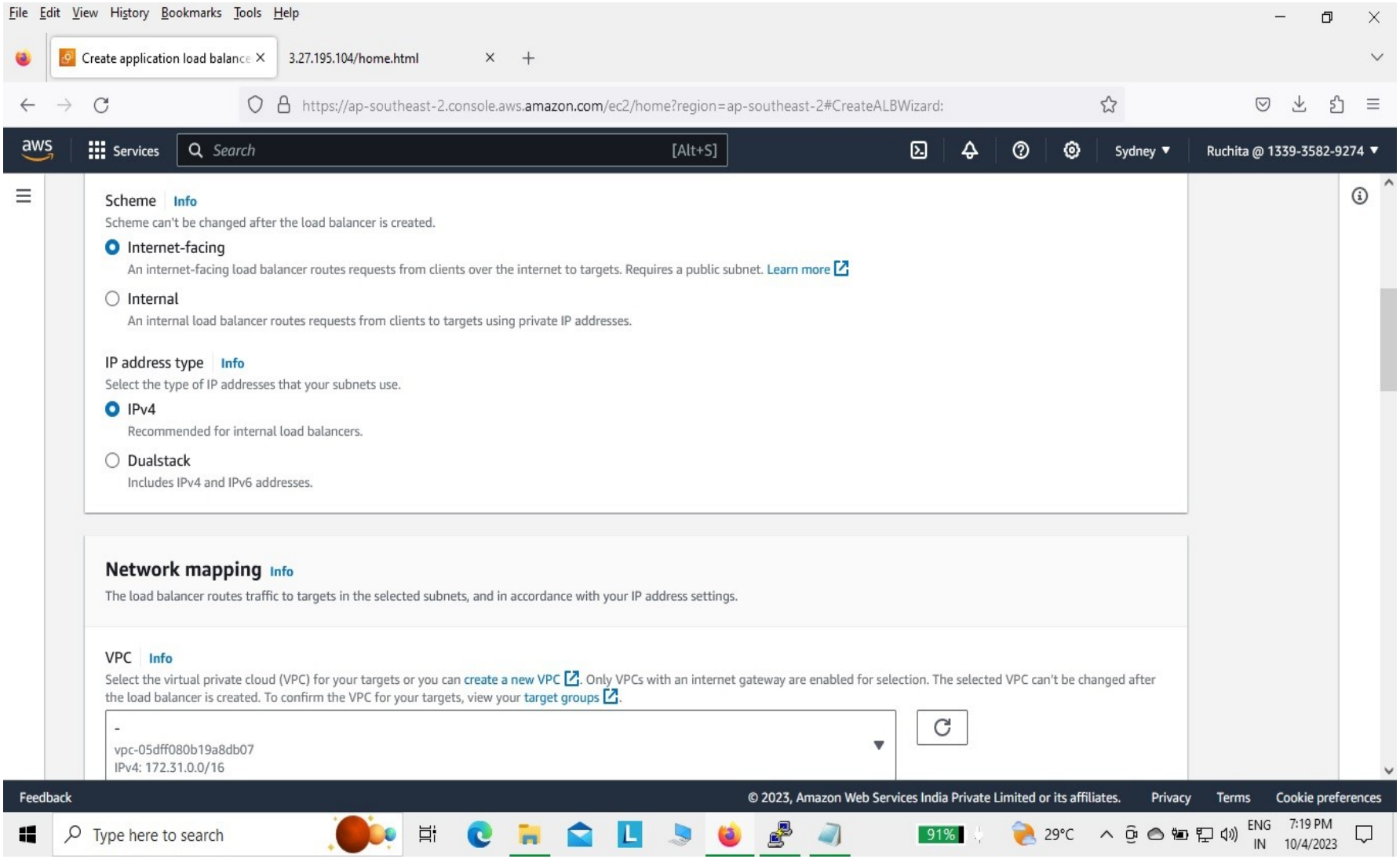
Go to the search page and search load balancer and click the create load balancer.



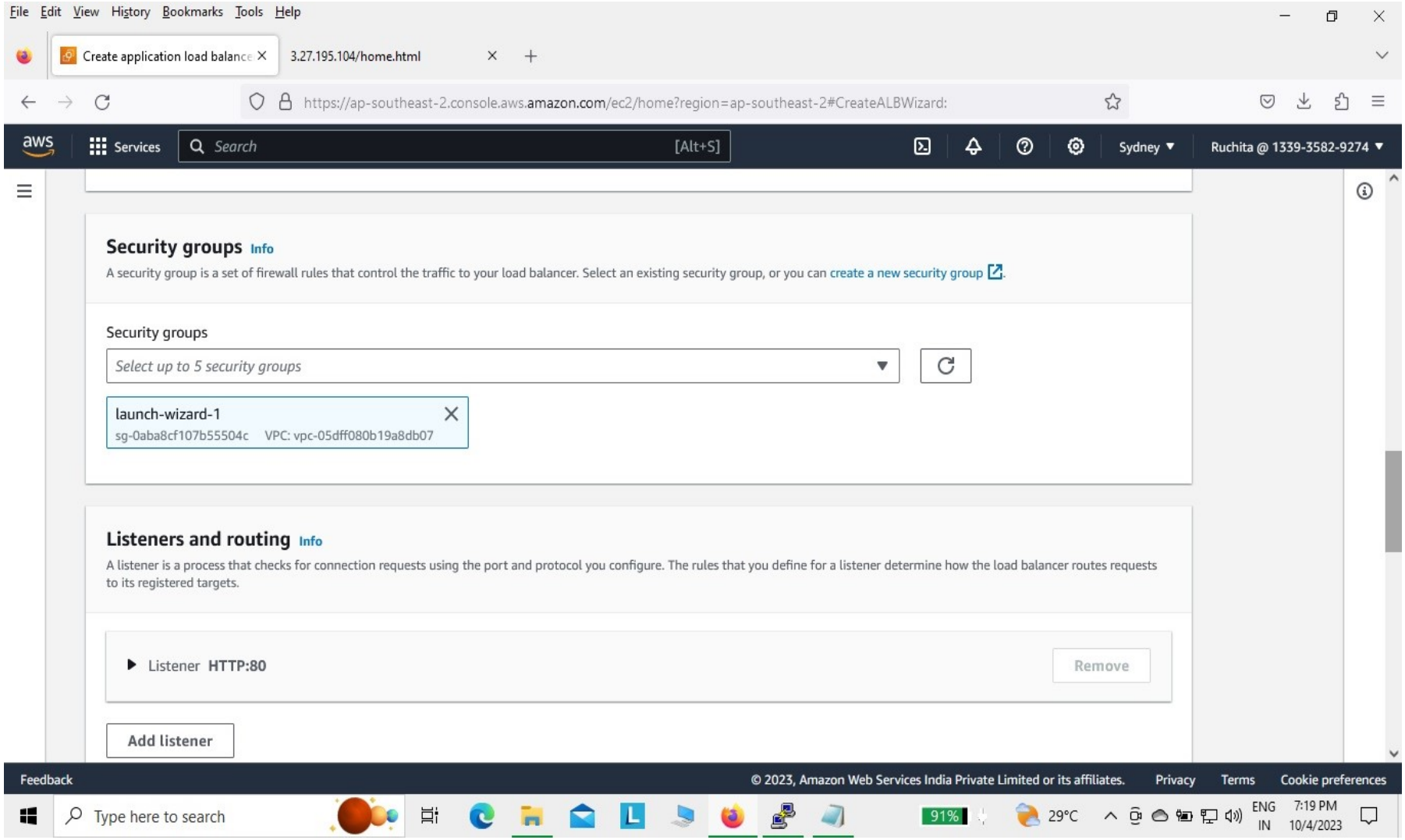
1. Create a load balancer and give a name projectbase



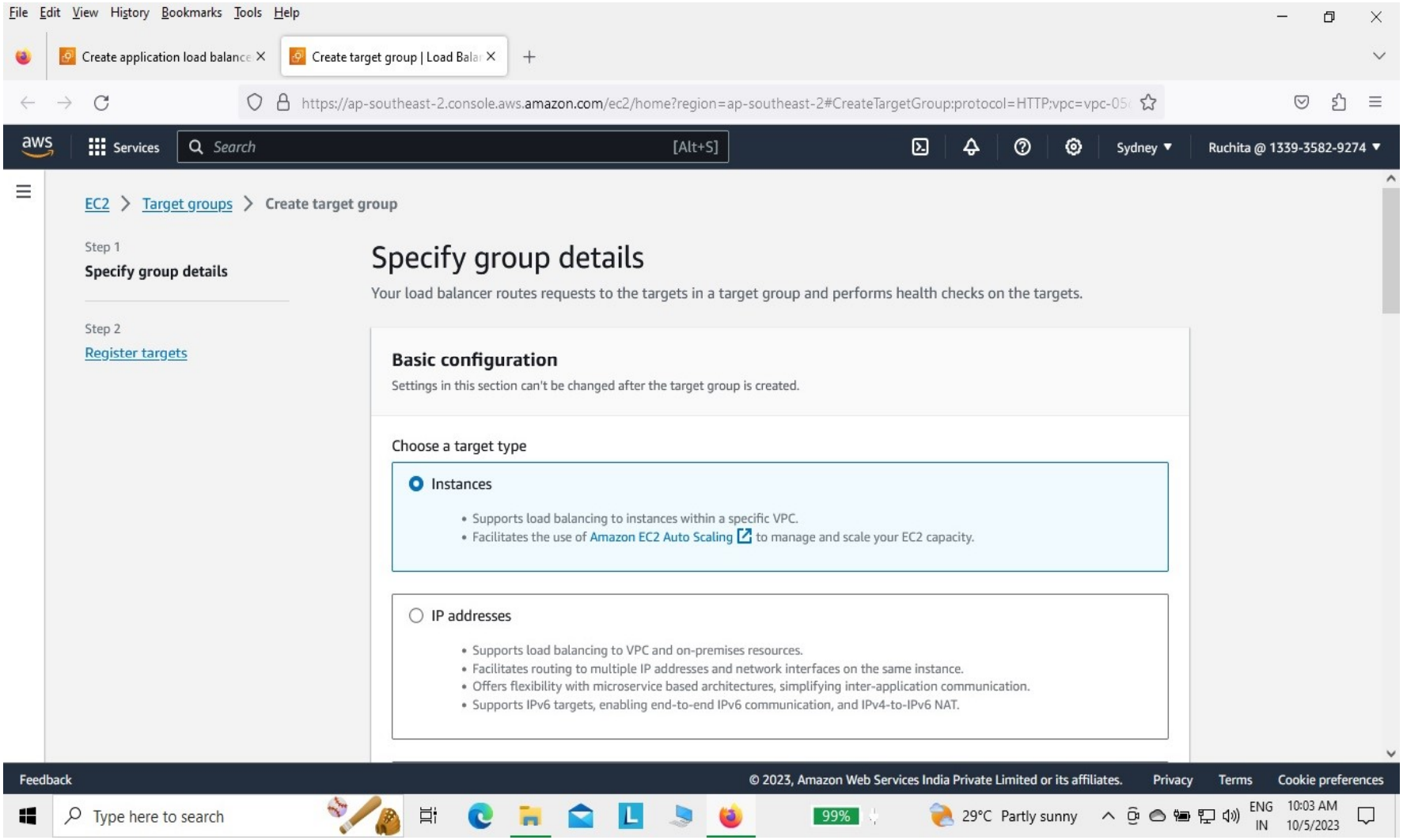
2.Scroll down page and configure the scheme and IP address.



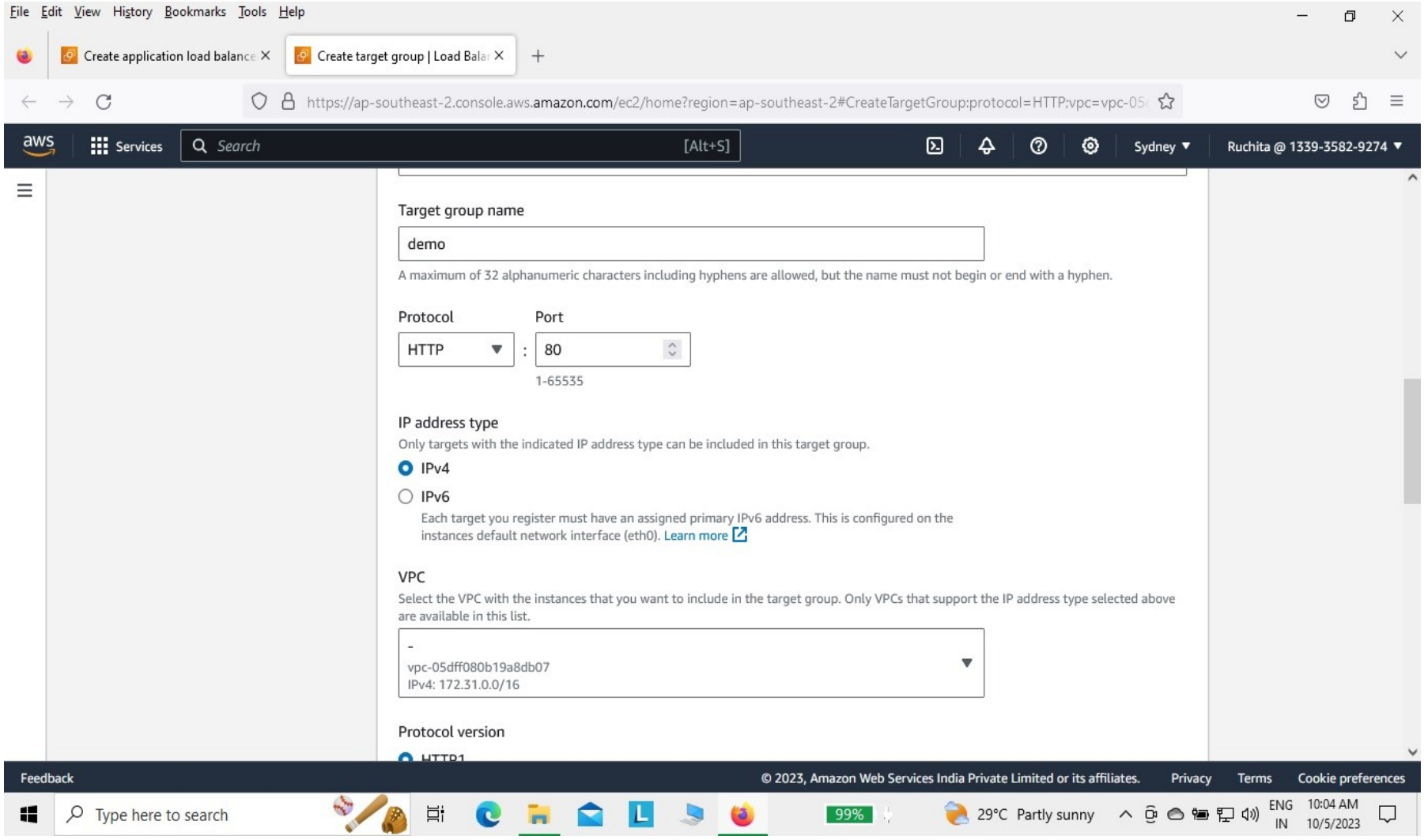
3. Select the Security Groups and scroll down the page.



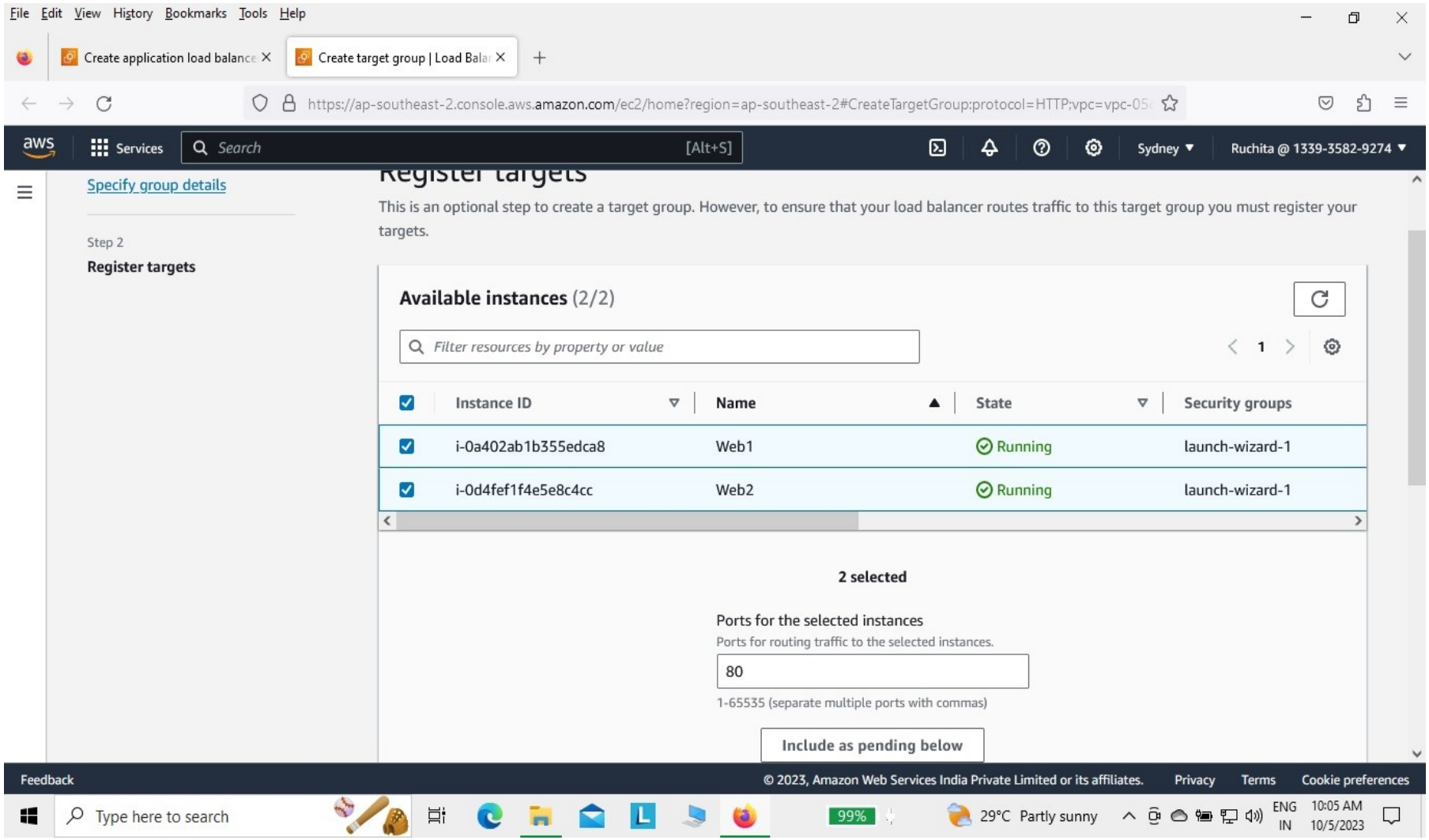
4.Create a Target group and choose the instance



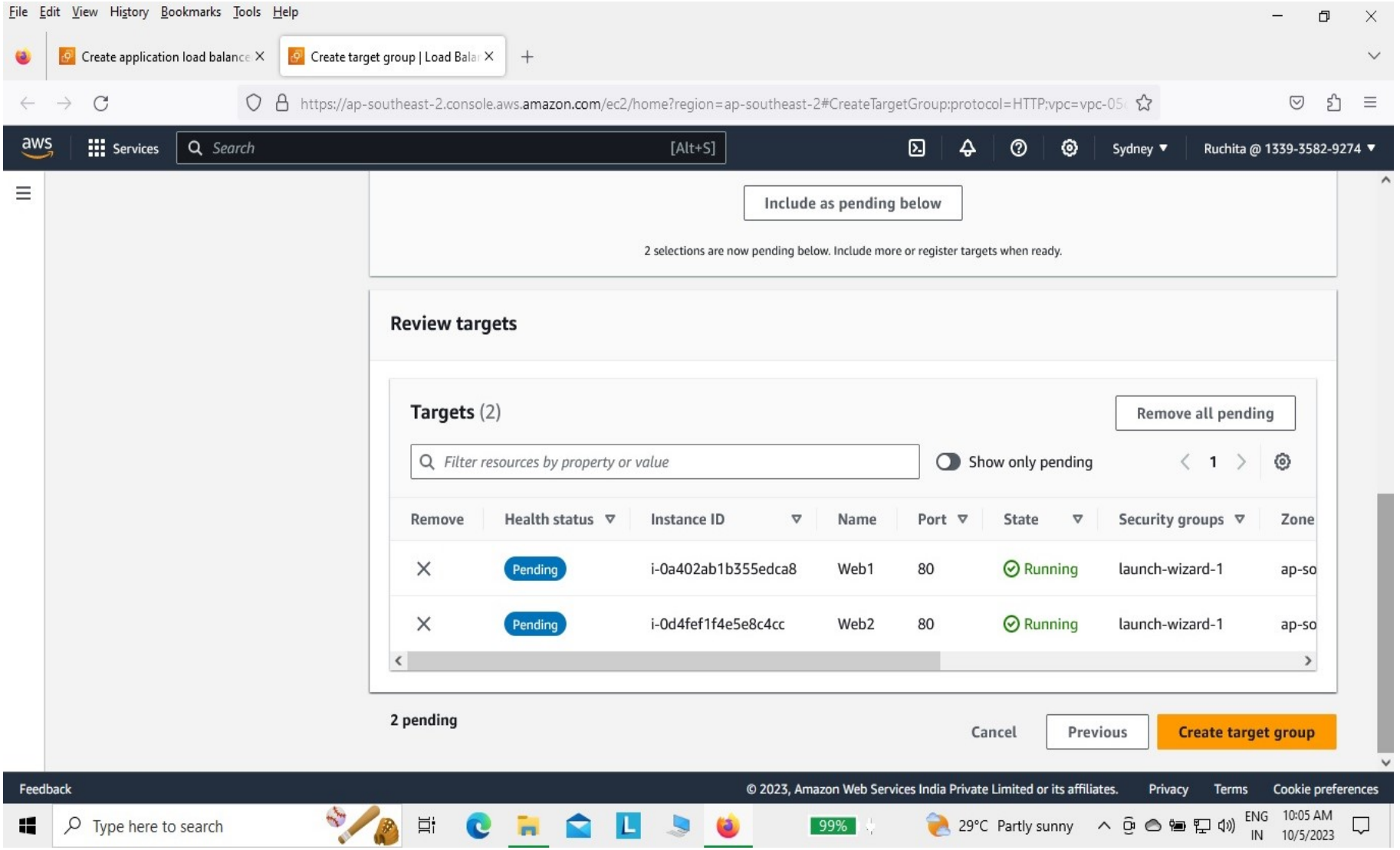
5.Give a target group name demo and scroll down page



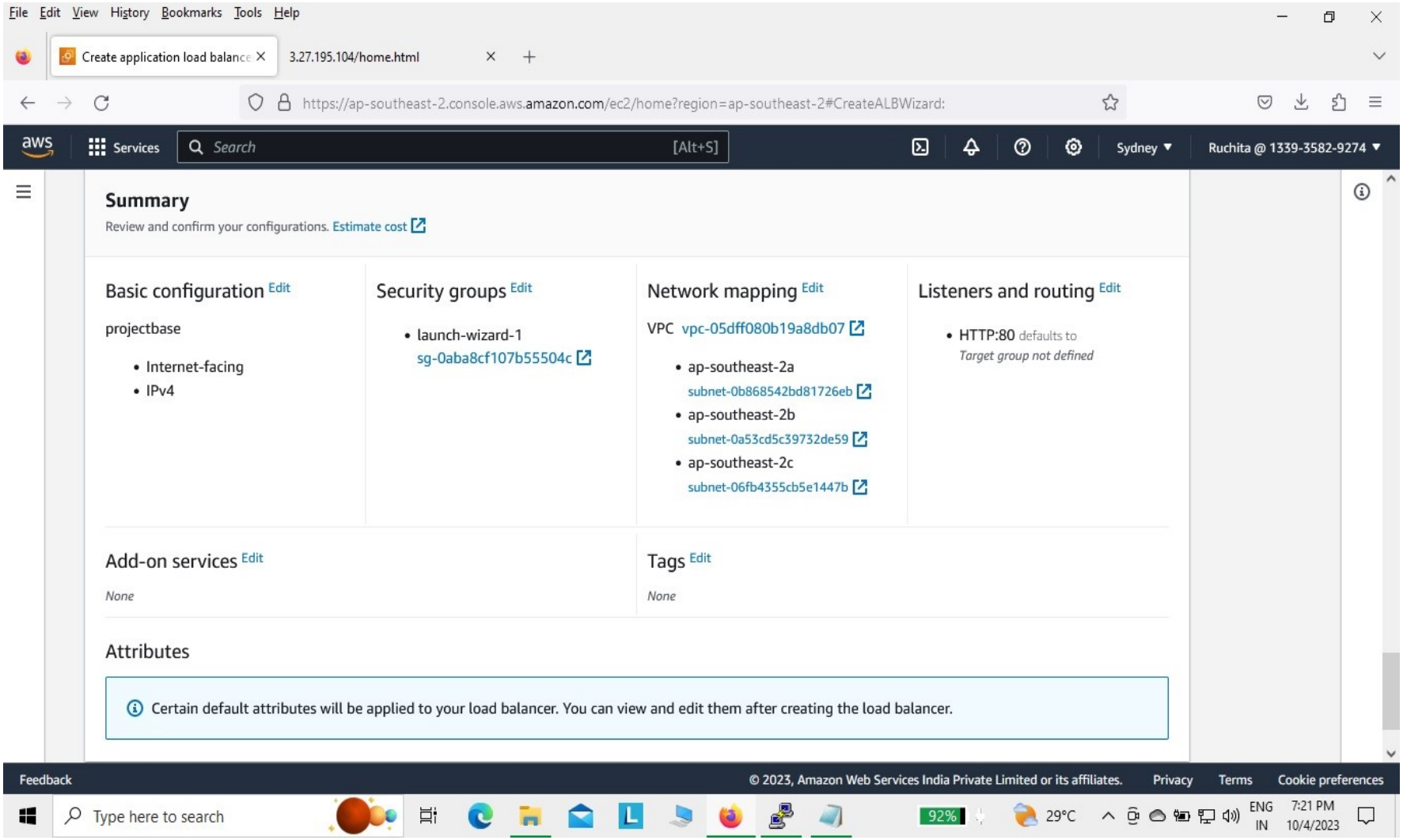
6.Click the instance id and select all and click the include pending button



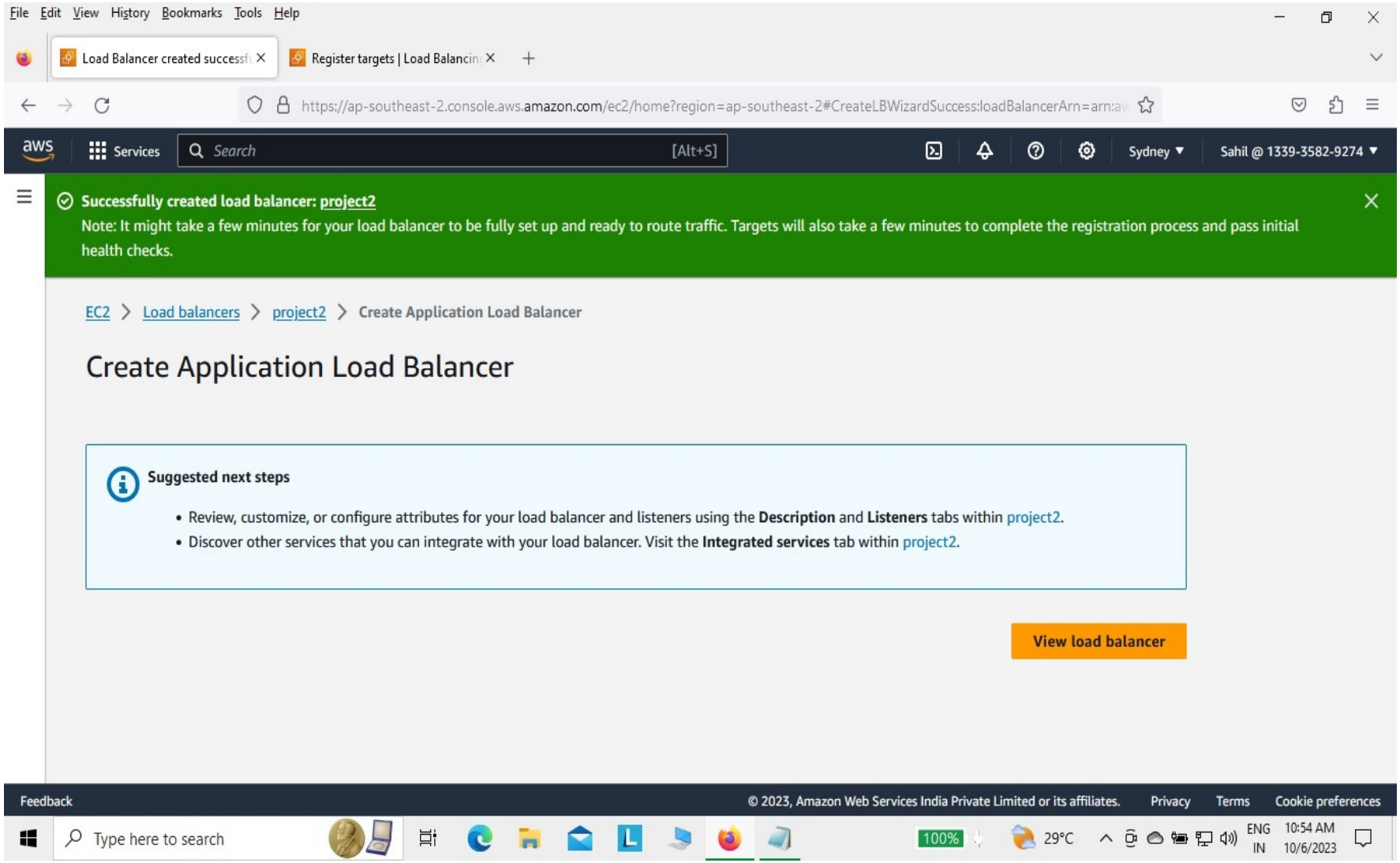
7. Now click the create target group button.



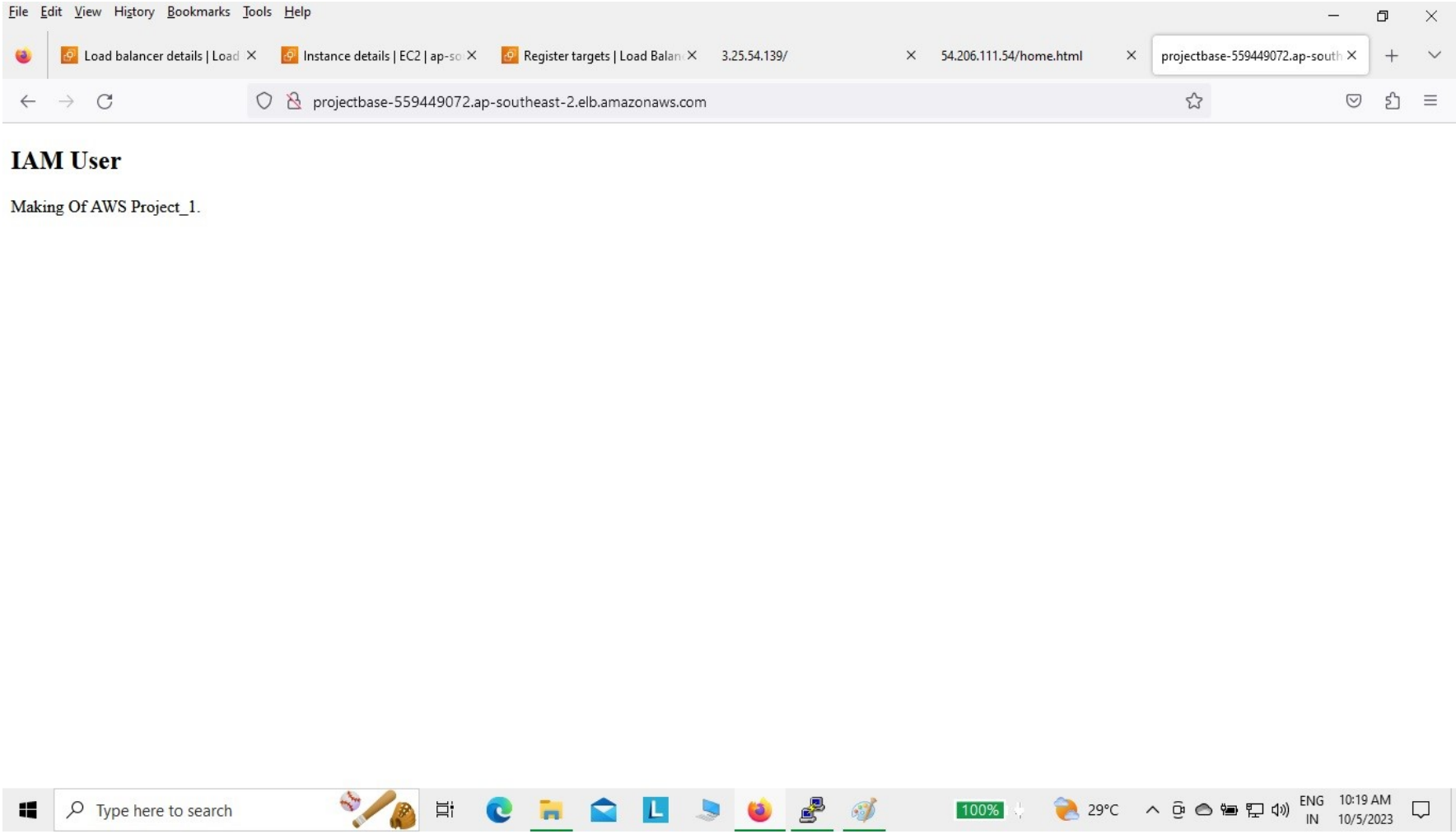
8. Check the summary and click the create a load balancer.



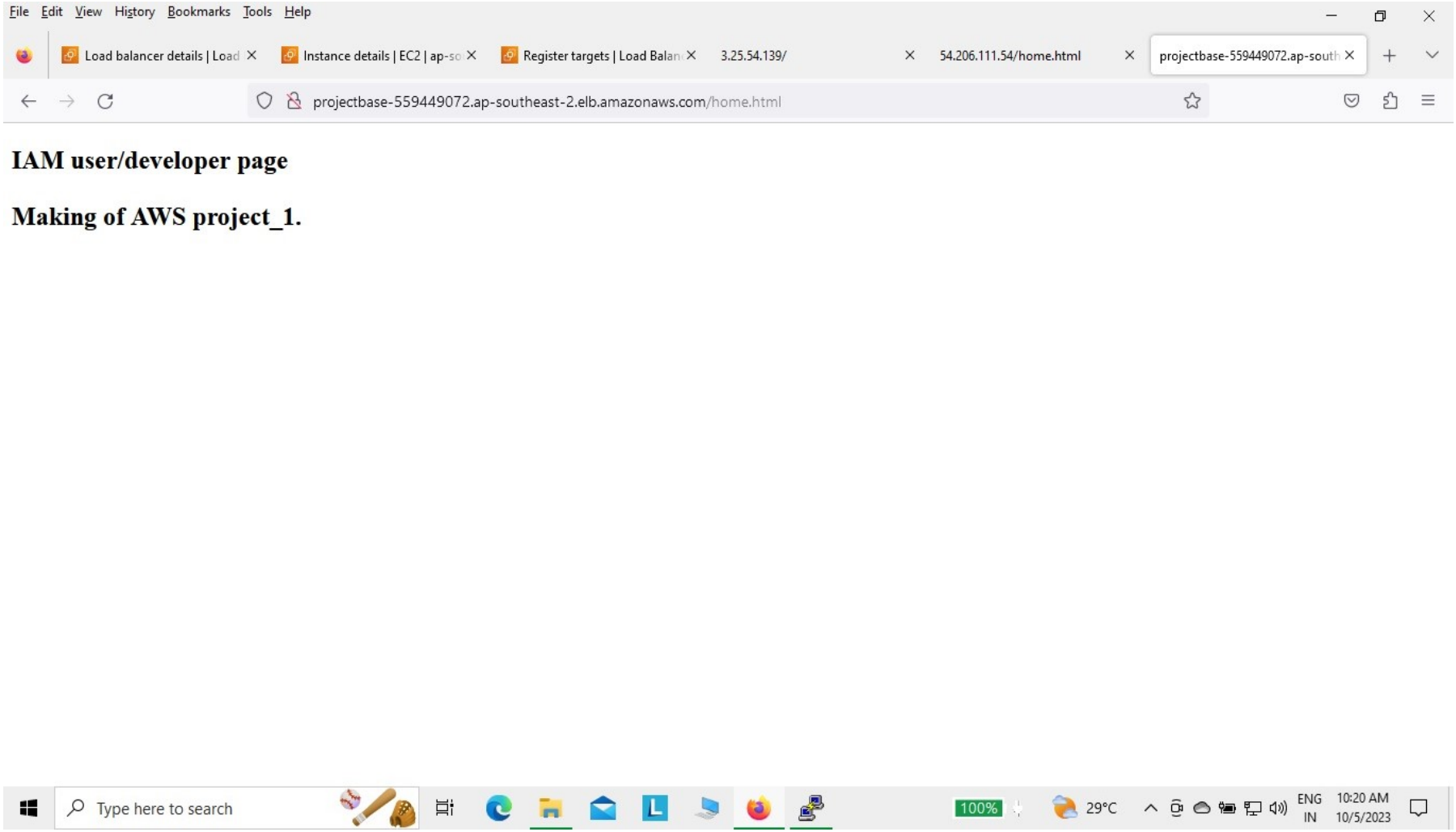
9.Now successfully create a load balancer.



10. Go to the load balancer and click DNS button copy address and paste the browser. And run the address. Now page is running

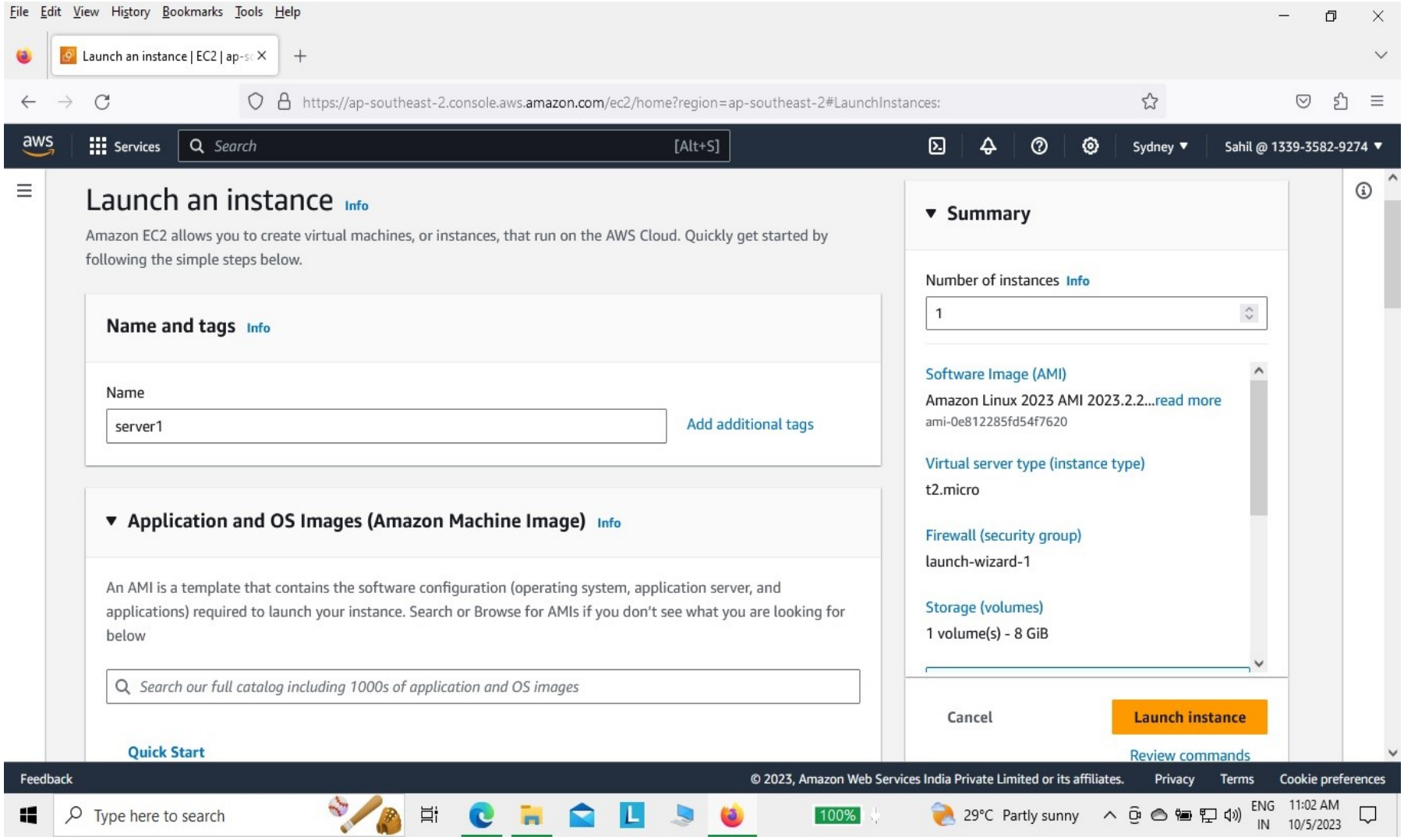


Refresh the page and running another web page

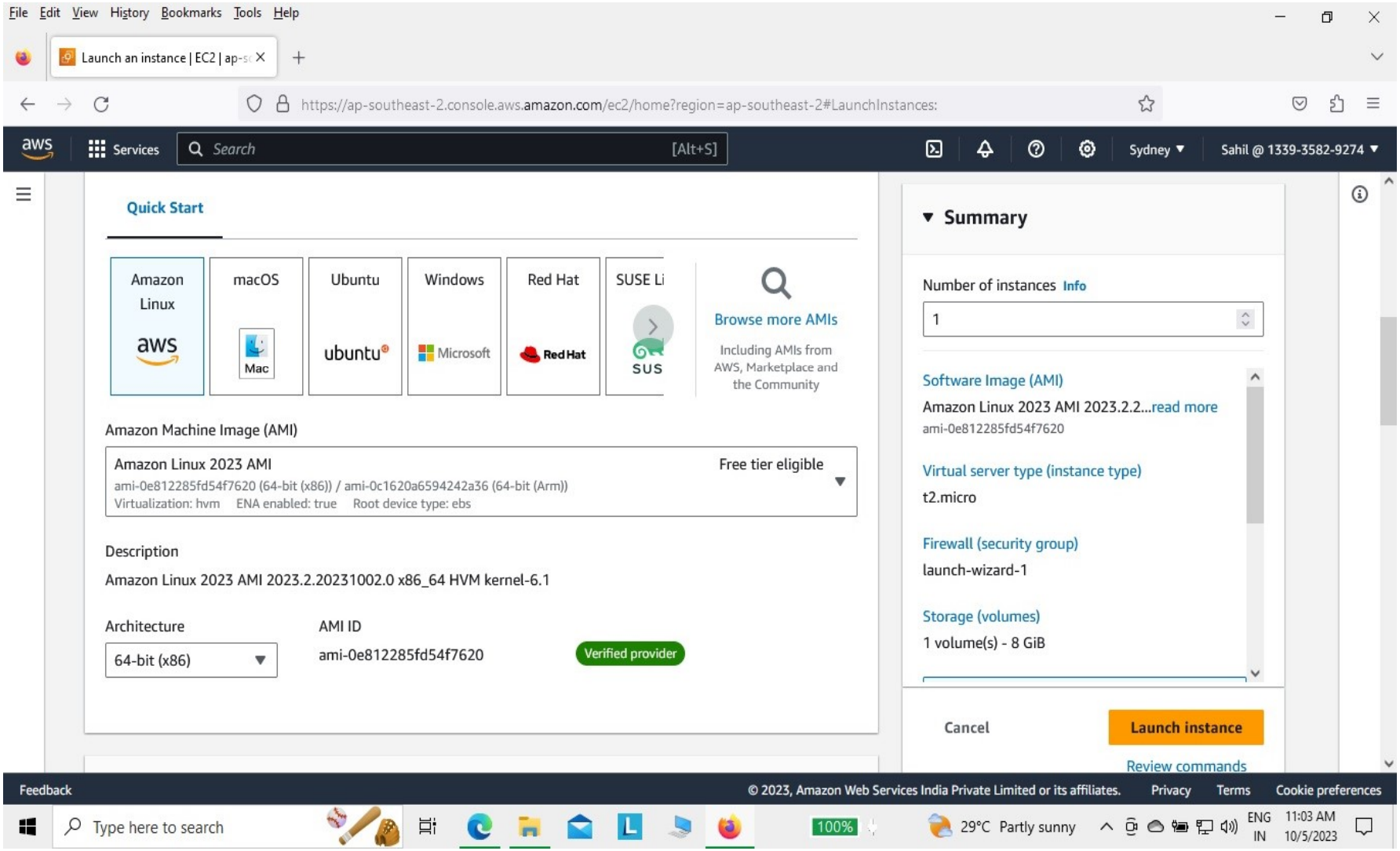


Create Second User and EC2 Instance

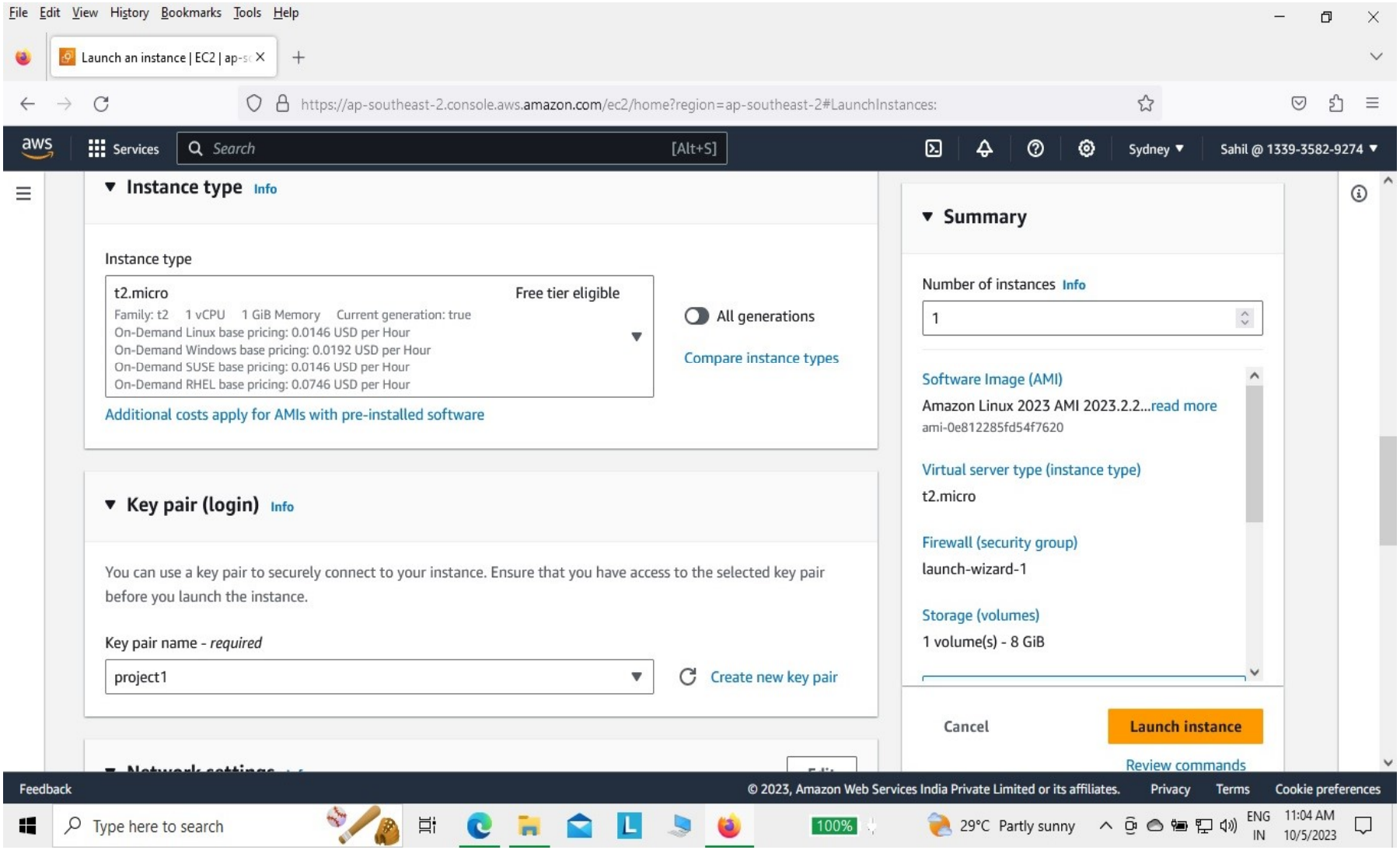
1.Create a EC2 instance and give a name server1



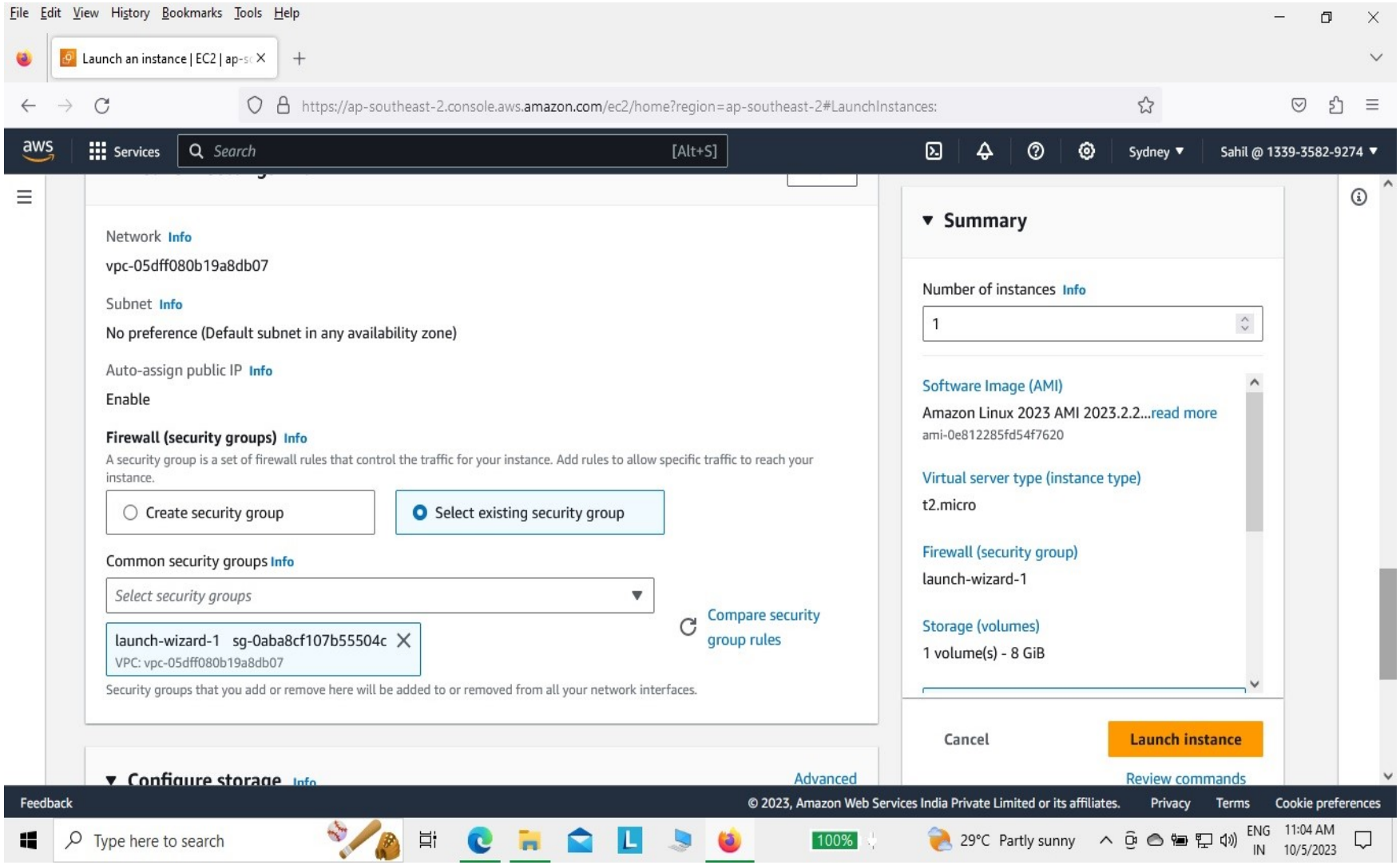
2. Choose the AMI image Amazon Linux



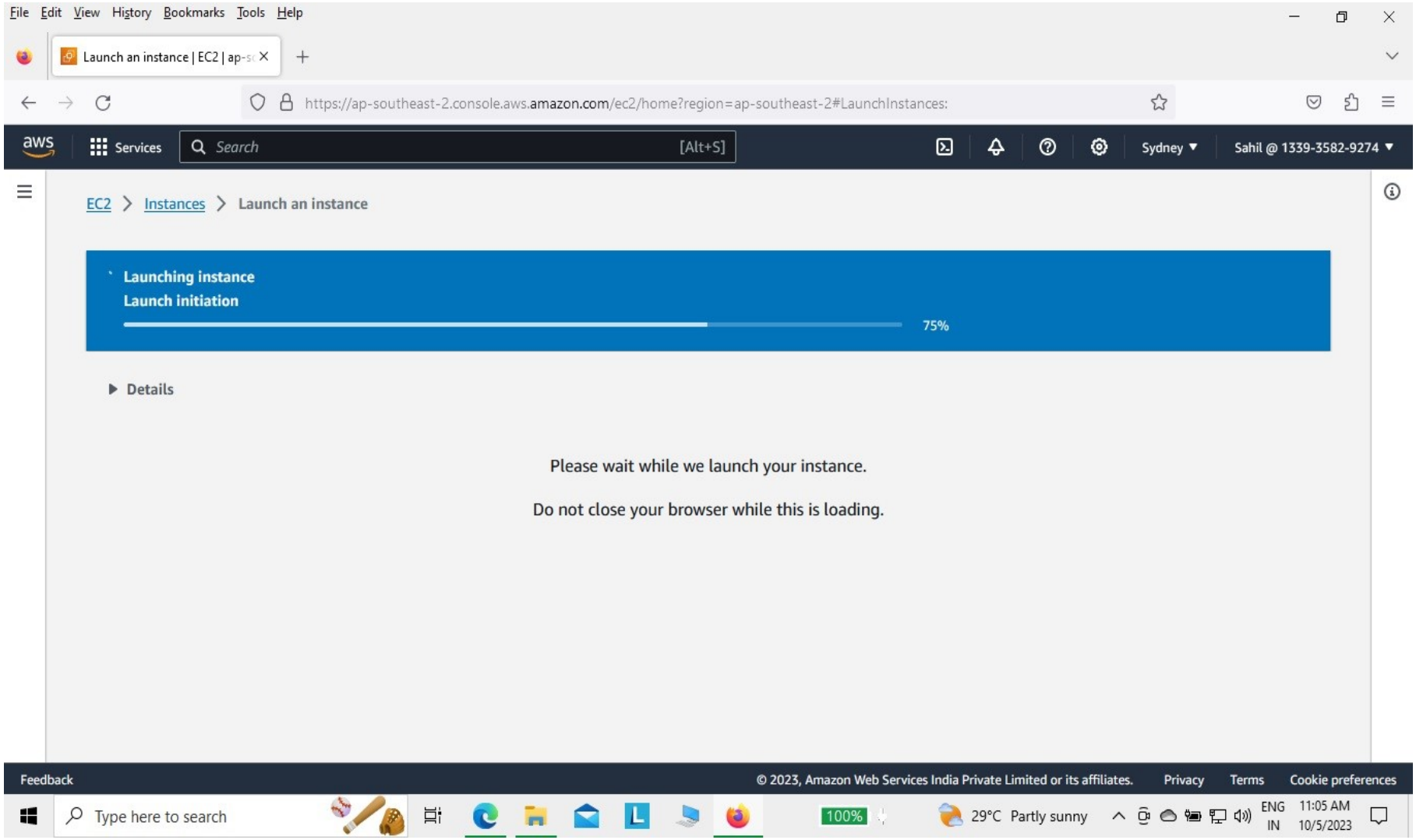
3. Choose existing key pair and Instance type.



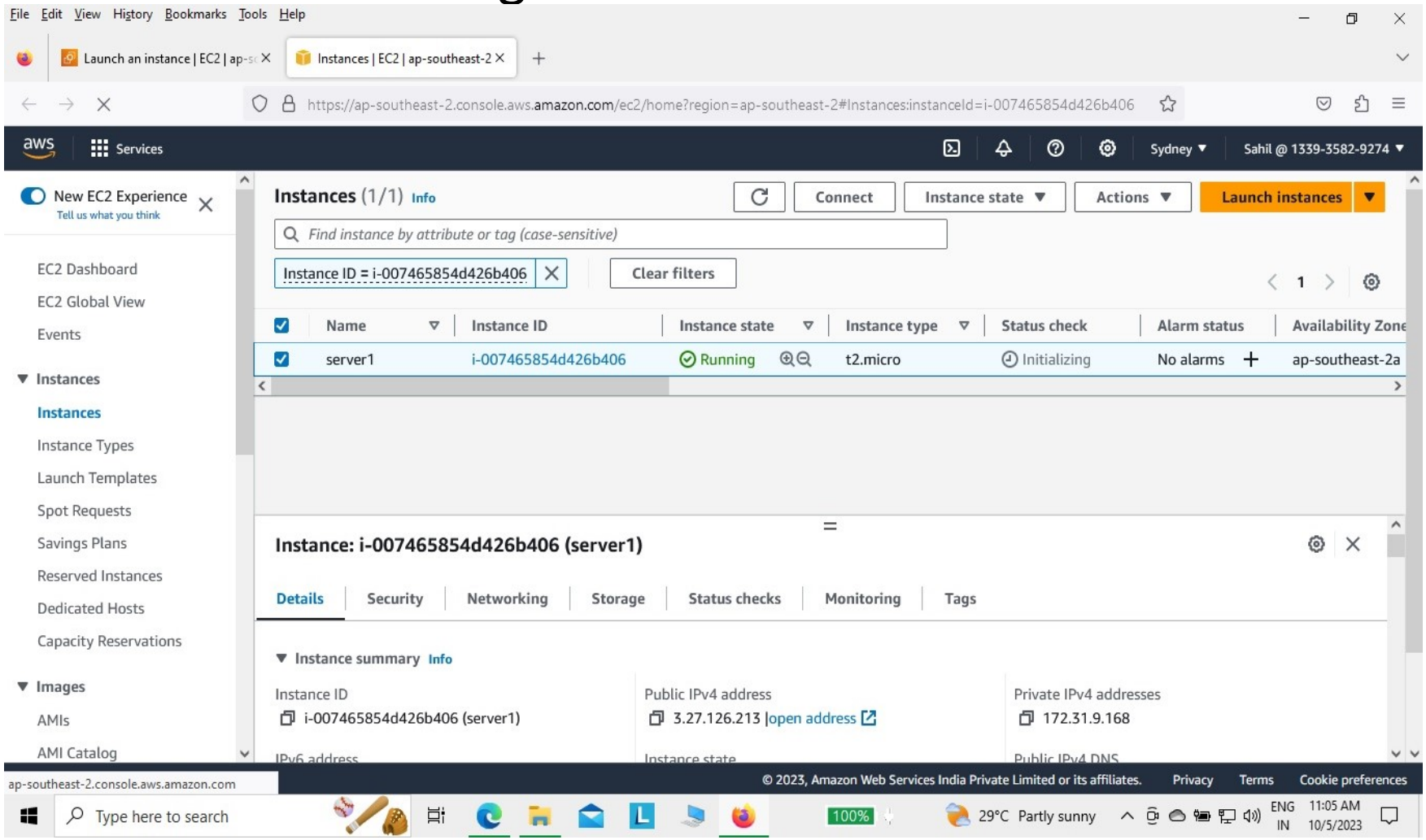
4.Select security group and scroll down or click the launch instance button.



Launching the Instance

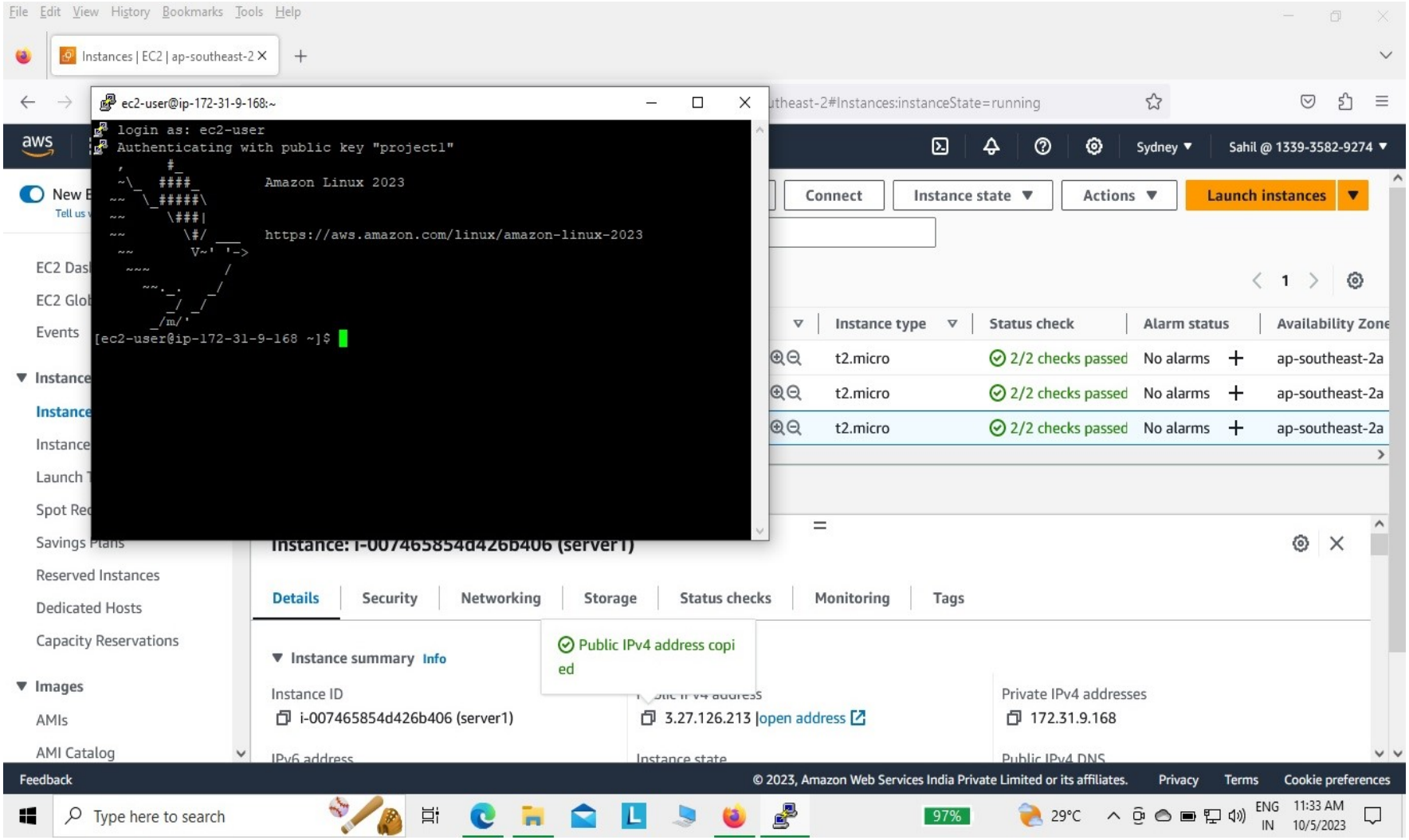


Successfully instance is running.
And previous step 1 to 4 following create two new Instance and give a name Server2 or sever 3.

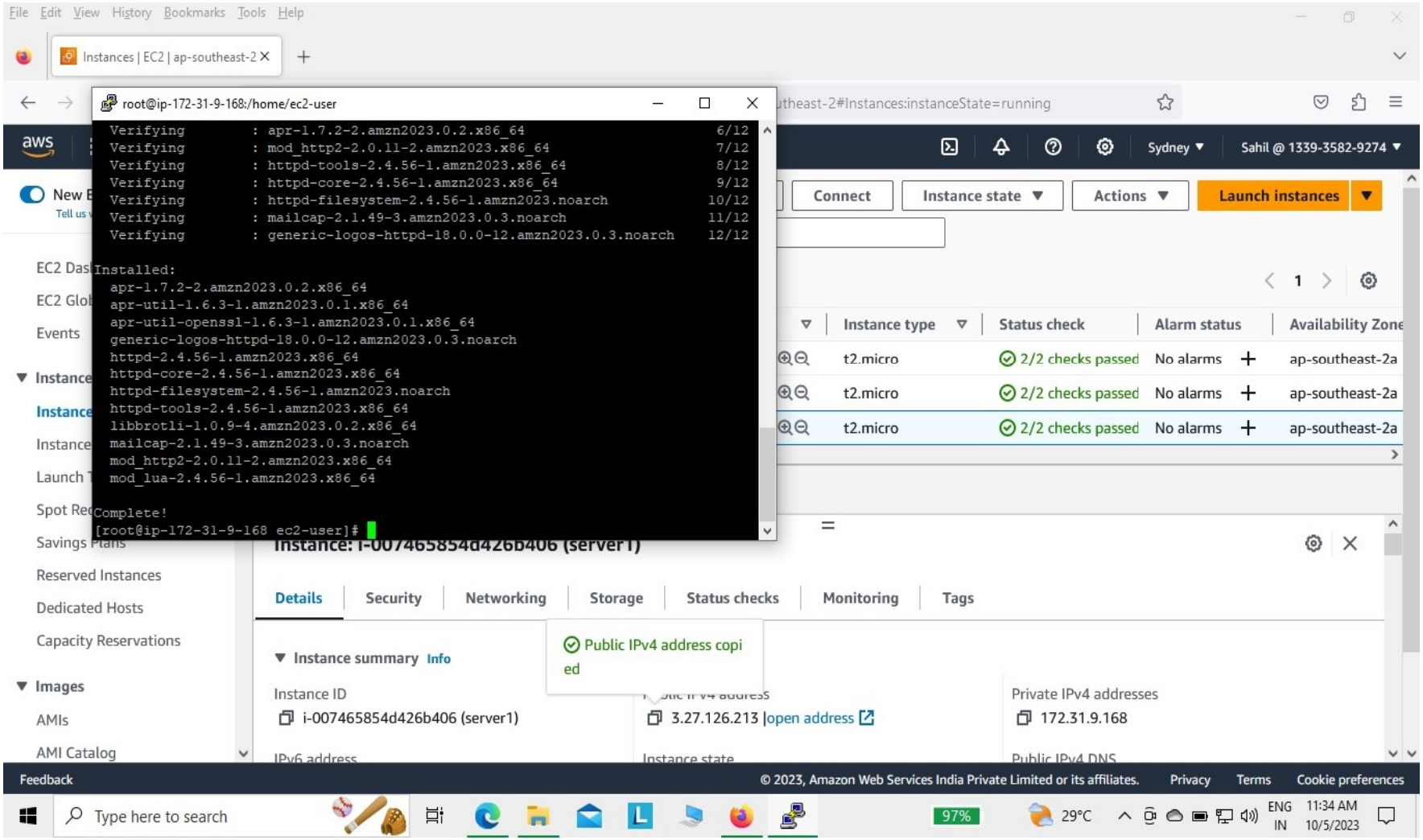


Create a HTML page in ec2 instance

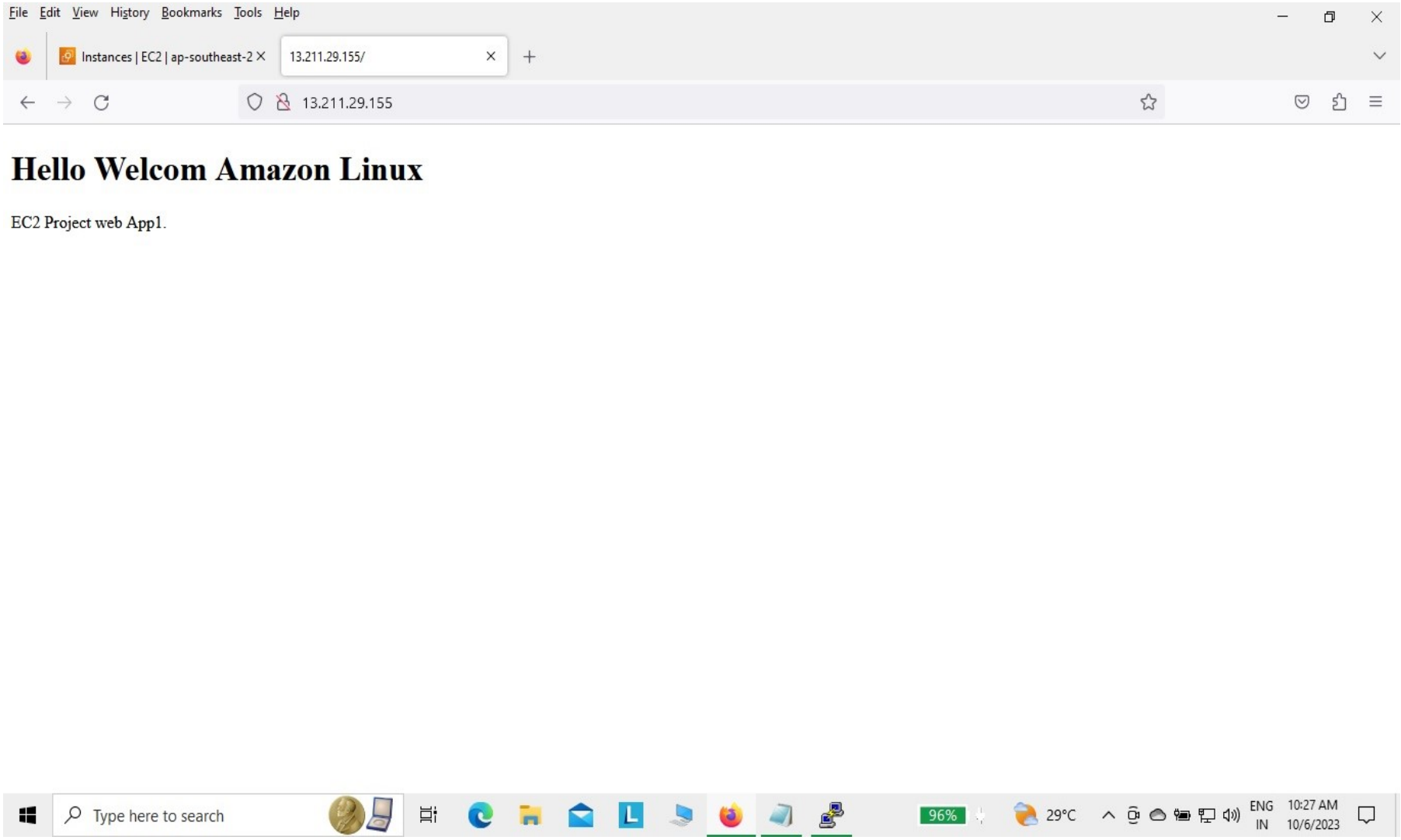
1. Open putty app or connect the Amazon Linux. Now successfully connection establish



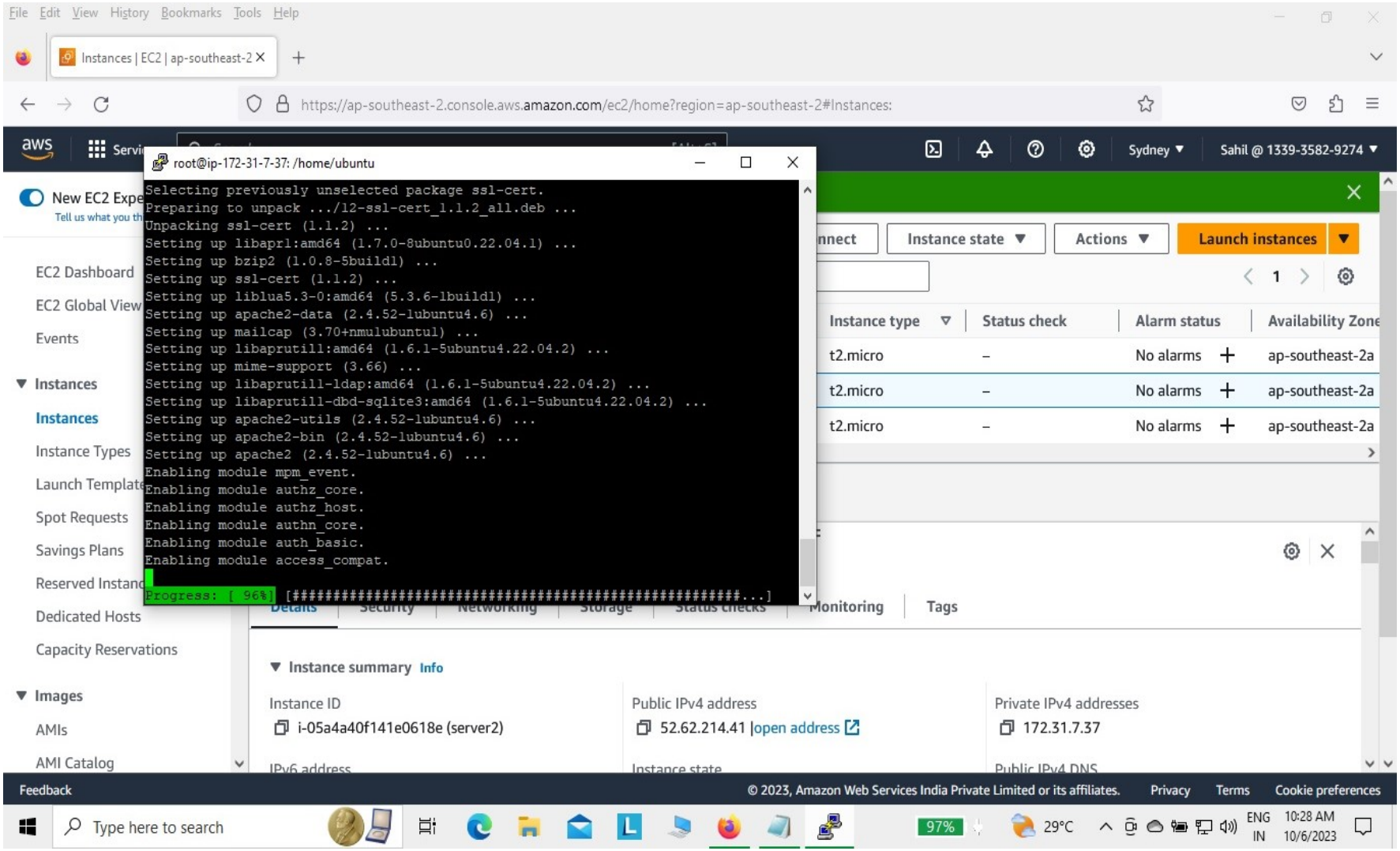
2.Install httpd application and create a html page and run the web page.



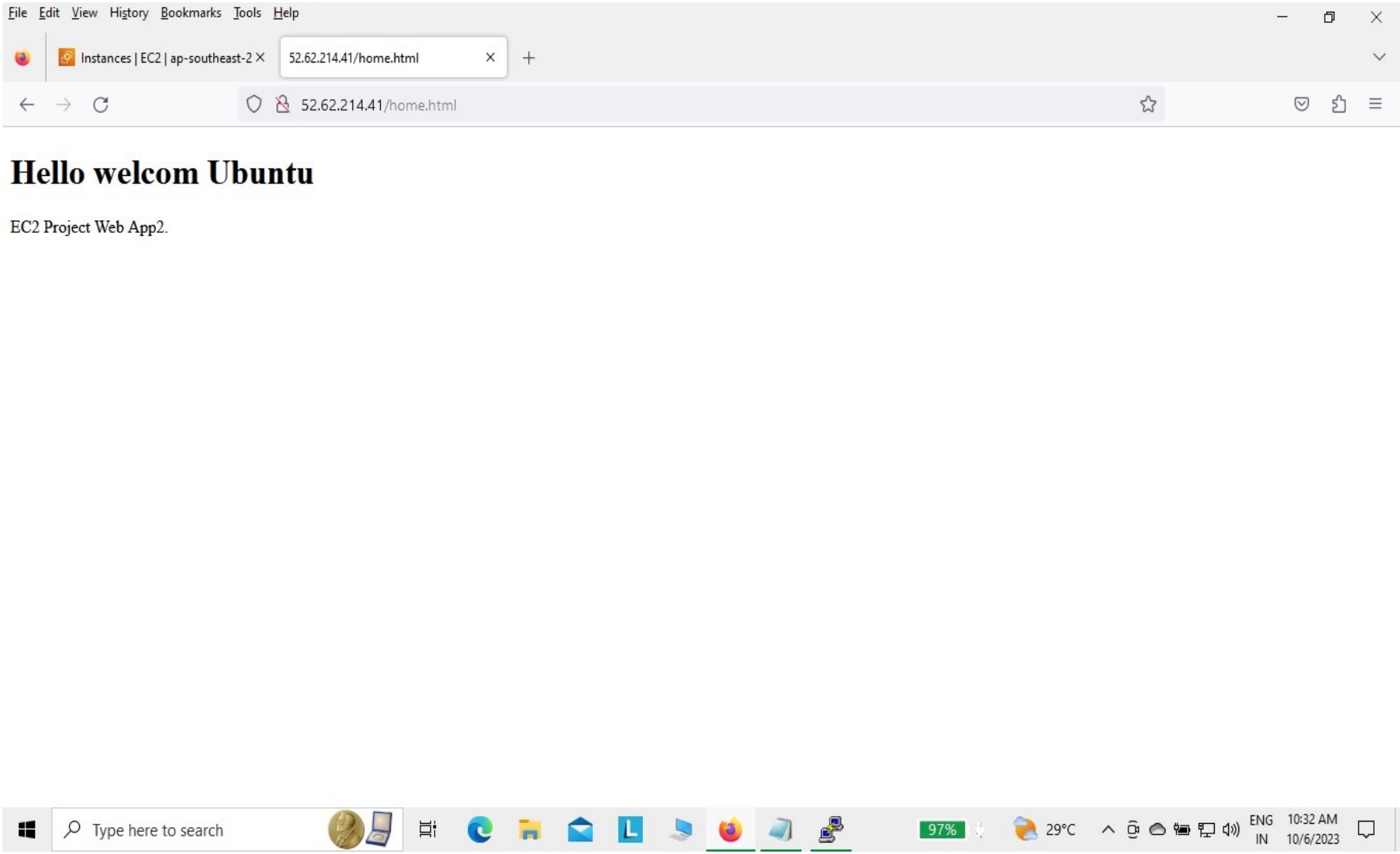
Successfully run html page in ec2 instance



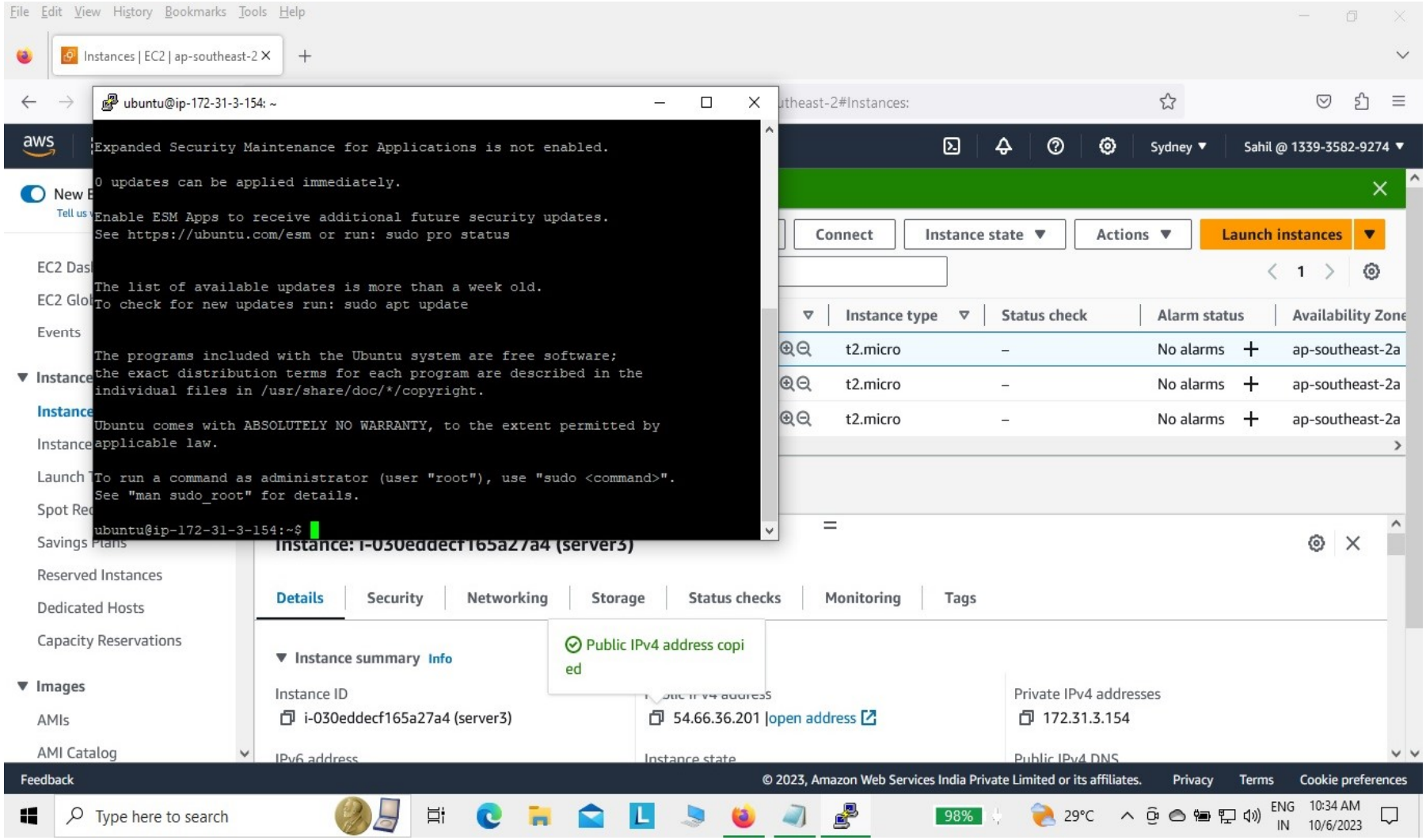
Follow the previous step 1 or 2 then create html in ubuntu



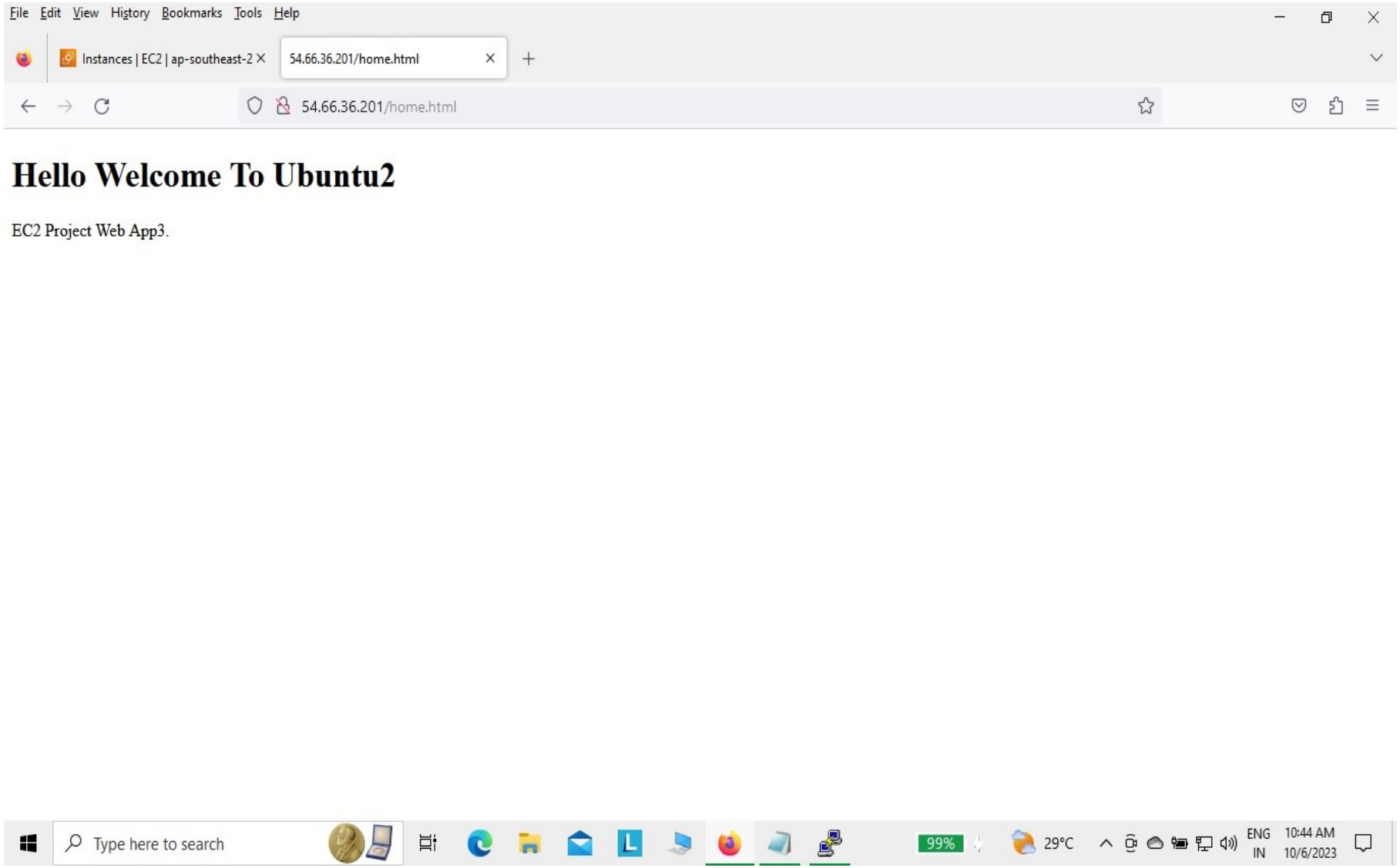
Successfully running the web page



Now follow previous step 1 or 2 and create html page 3rd server

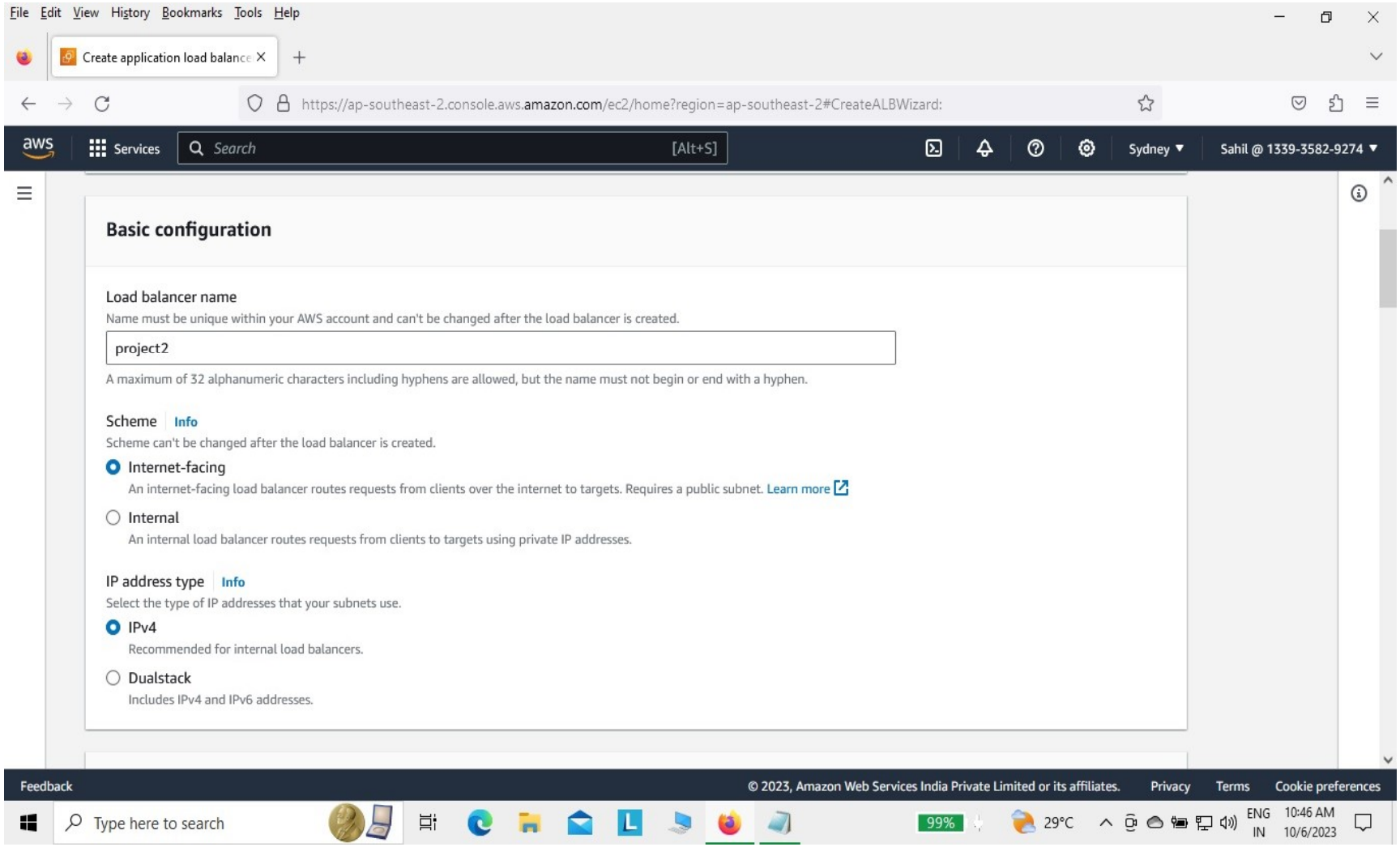


Now successfully running the web page

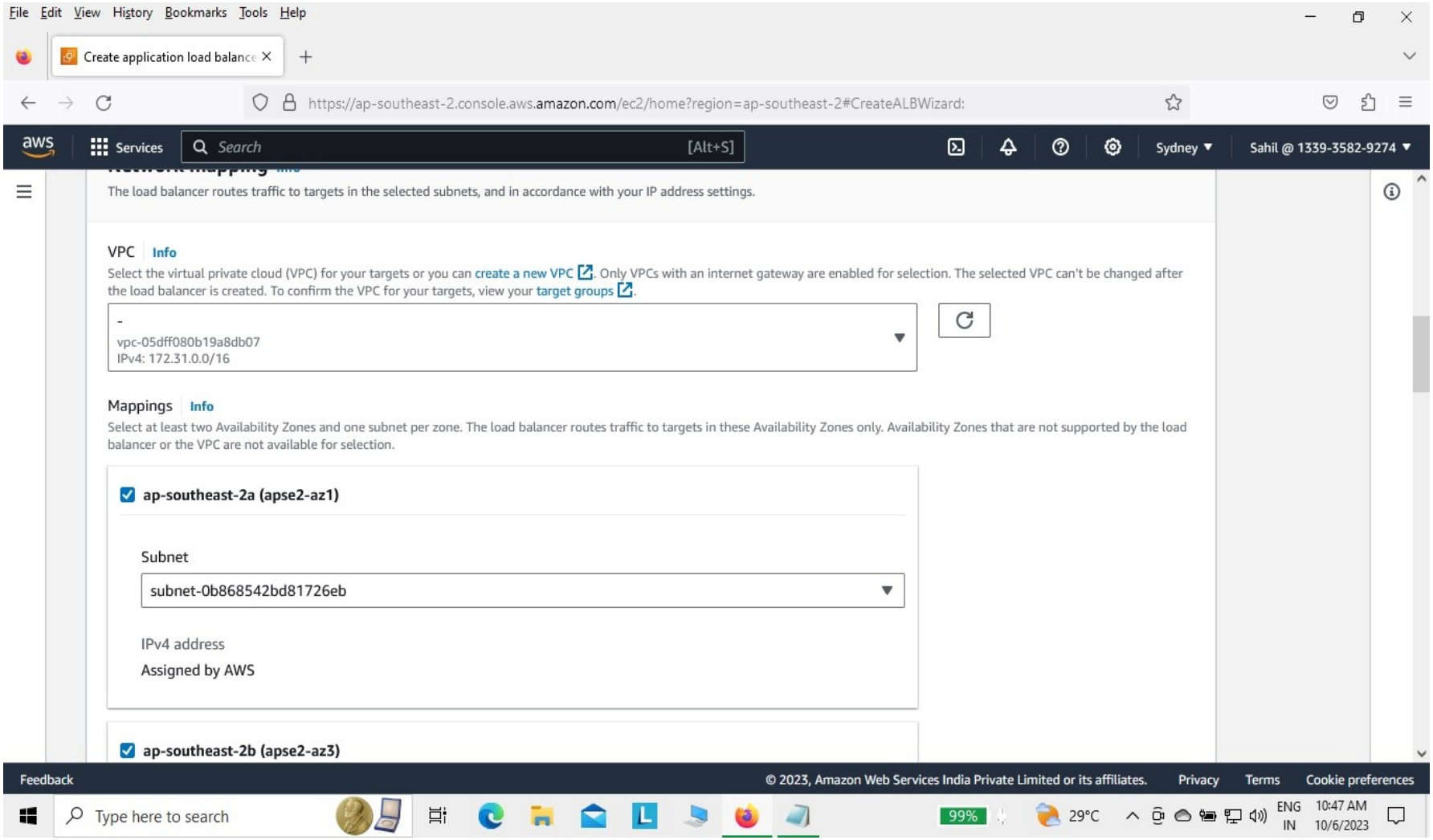


Create a load balancer

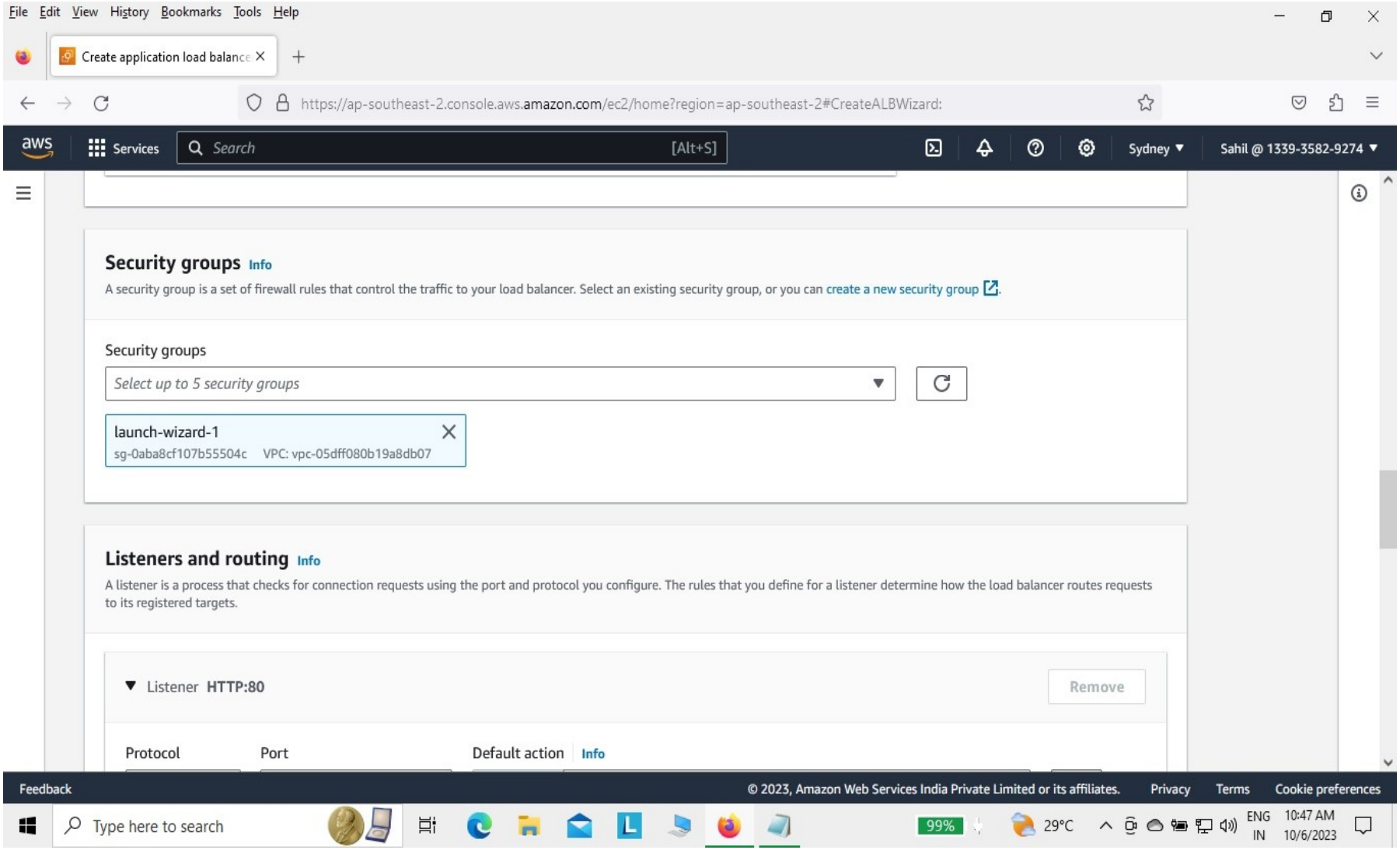
1. Create a new load balancer and give a name project2



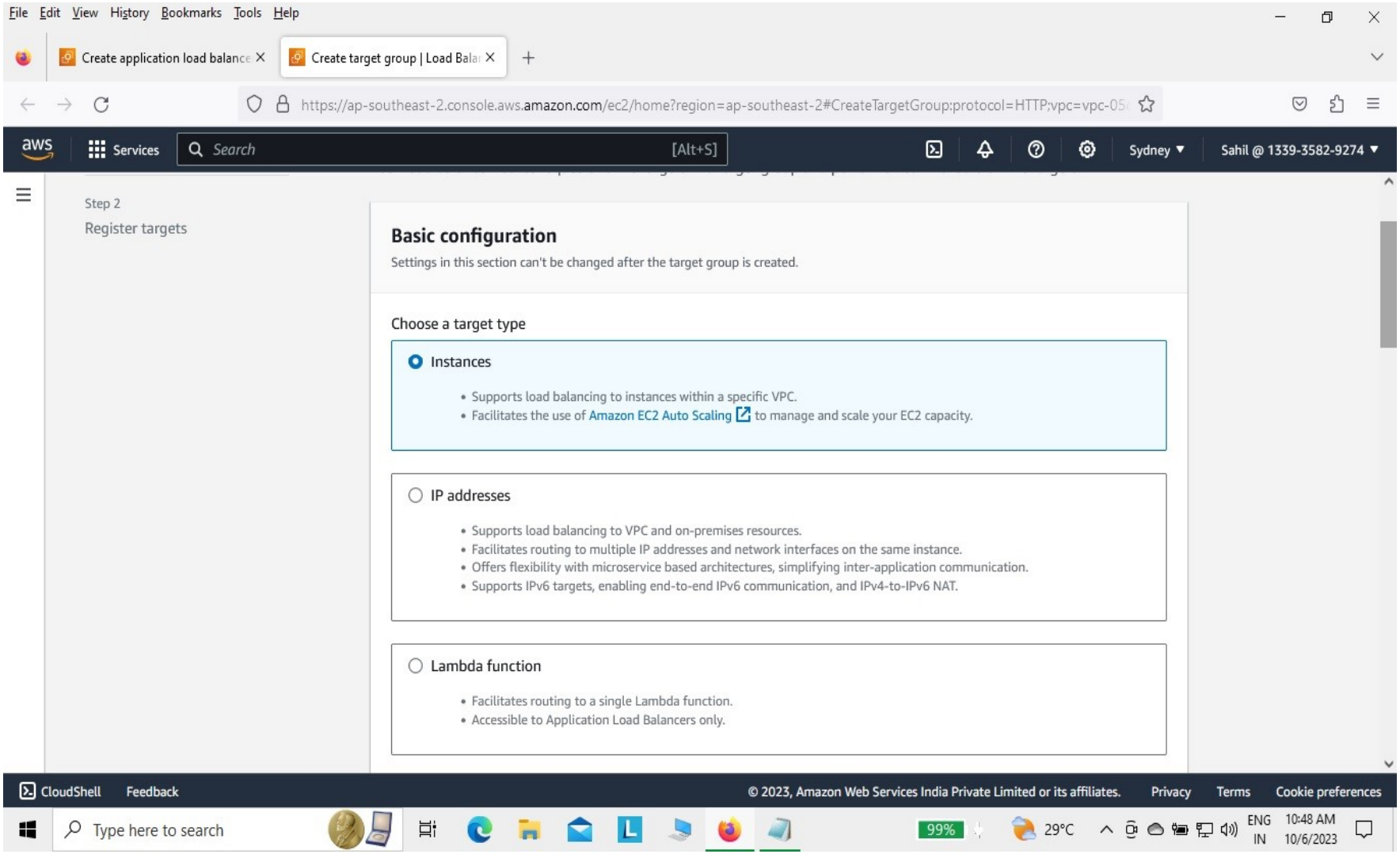
2. Scroll down page and select mapping and select all



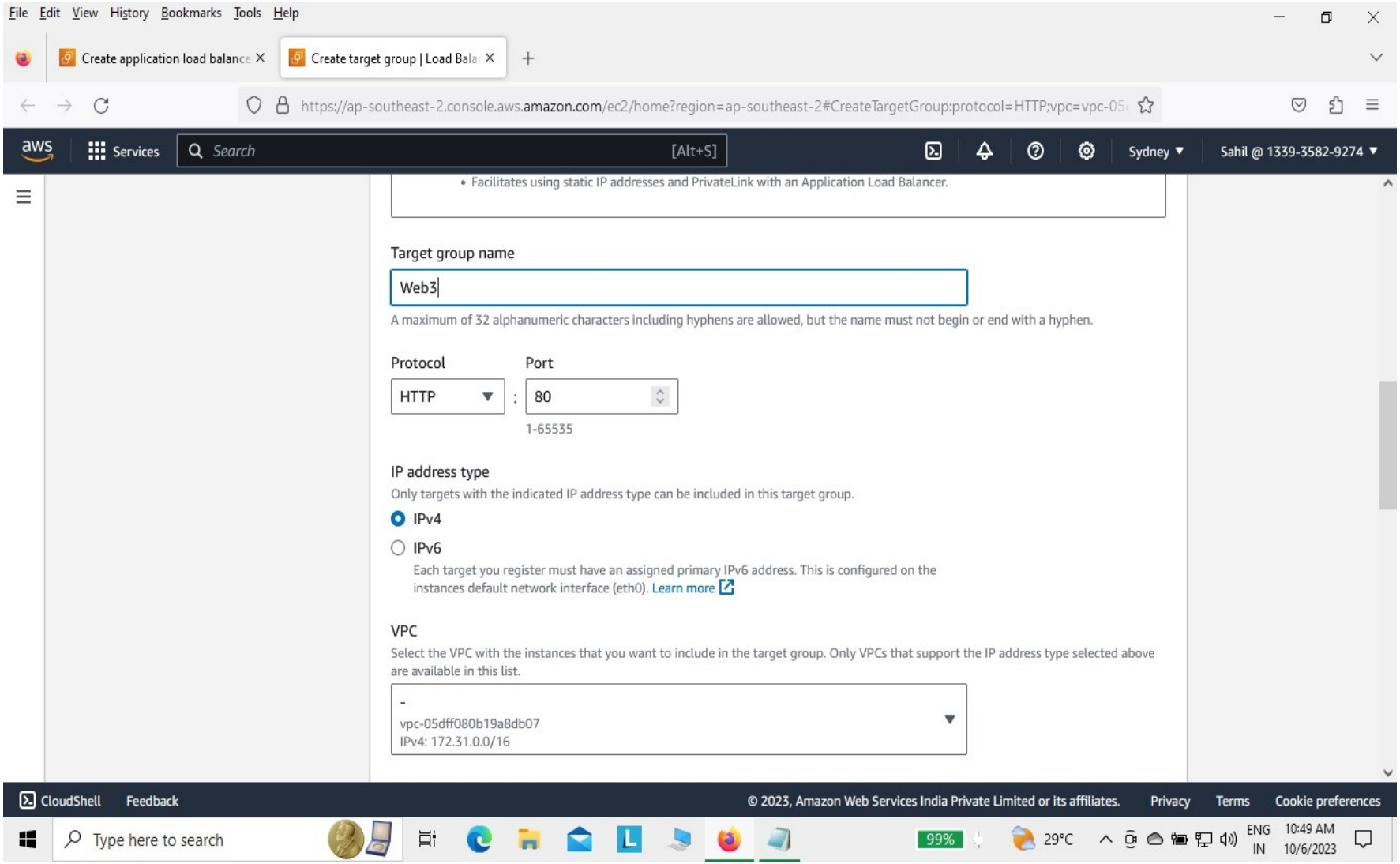
3.Select the security group and scroll down page



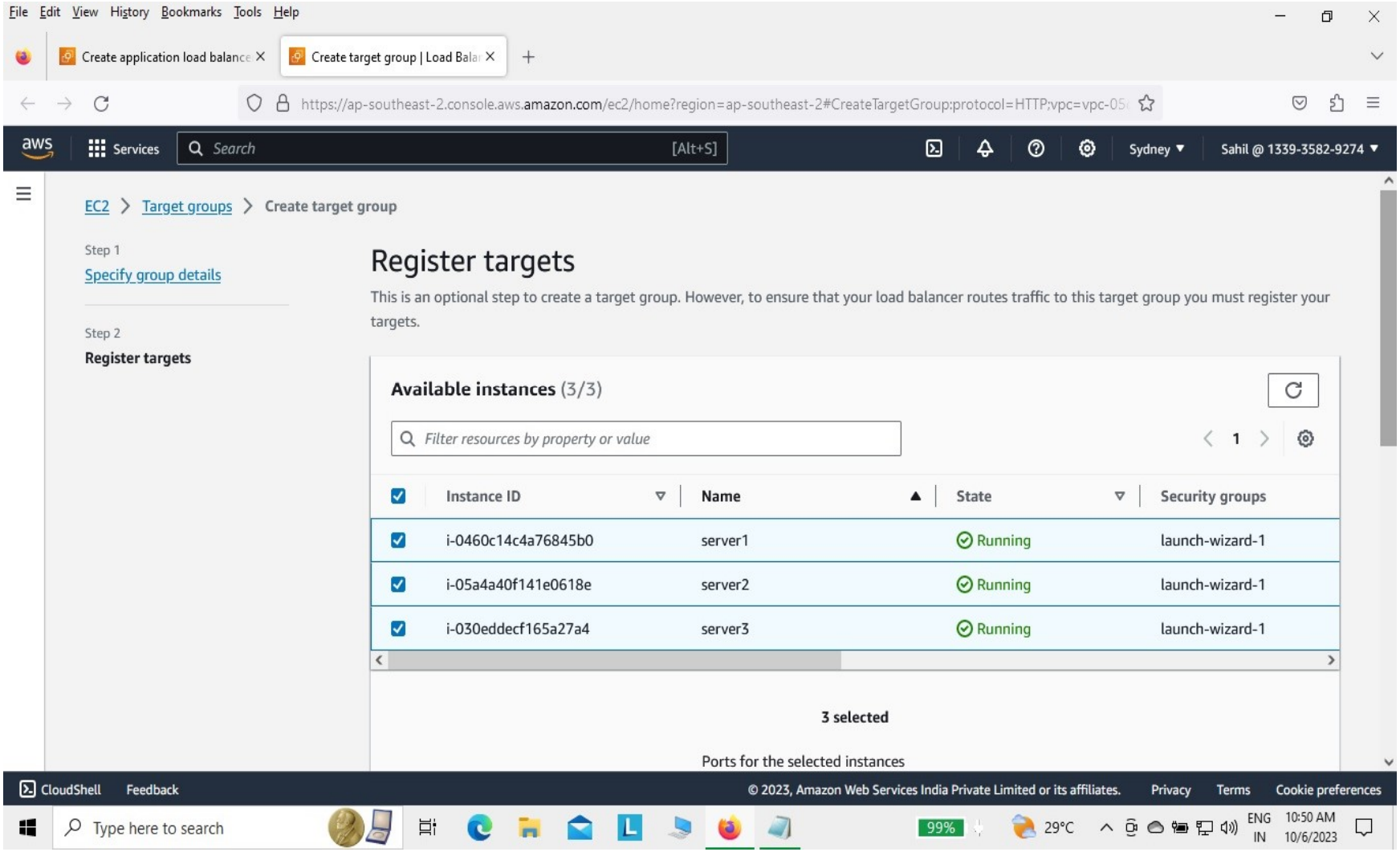
4. Select basic configuration and select instances



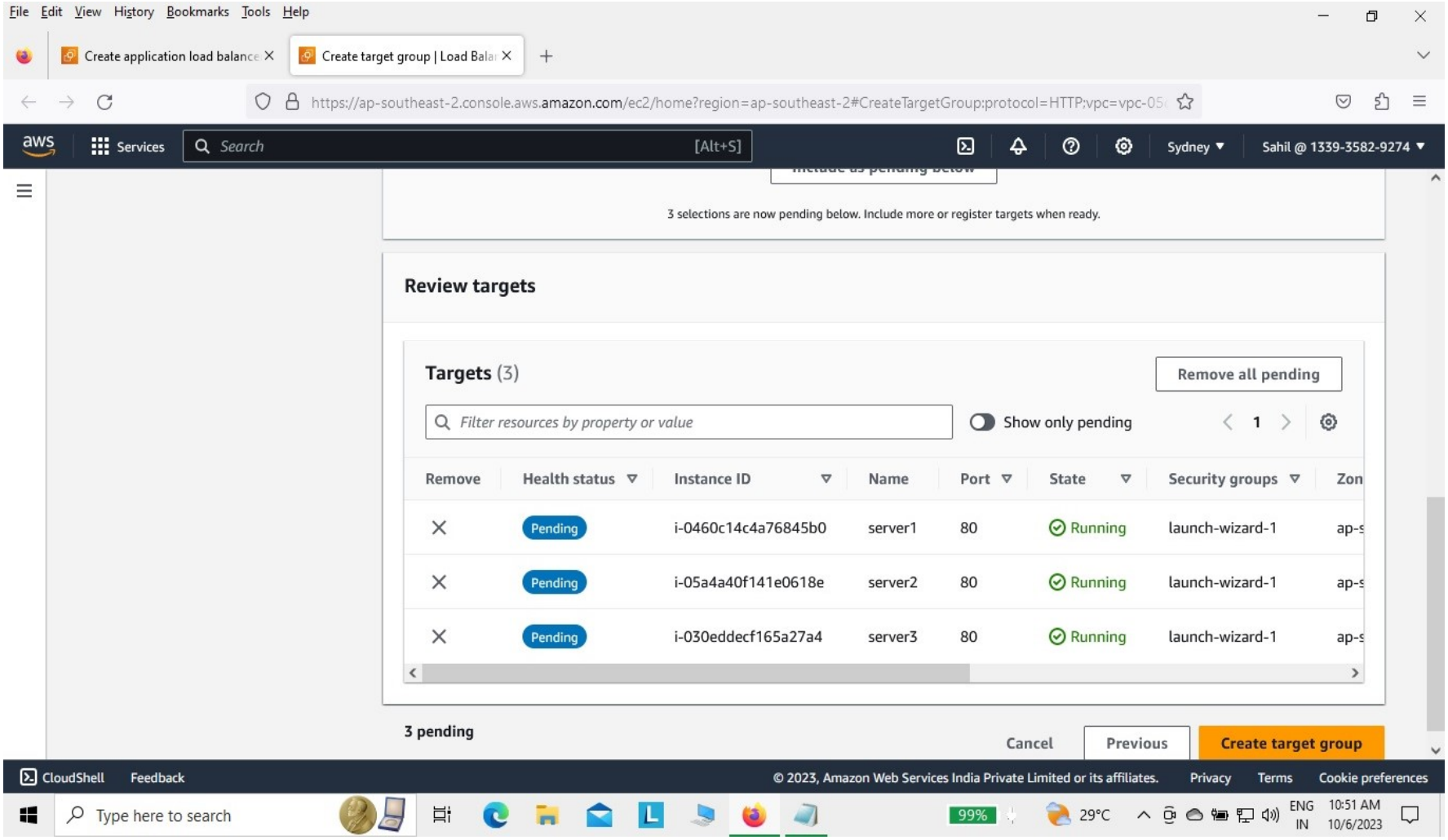
5. Create target group and give a name web3



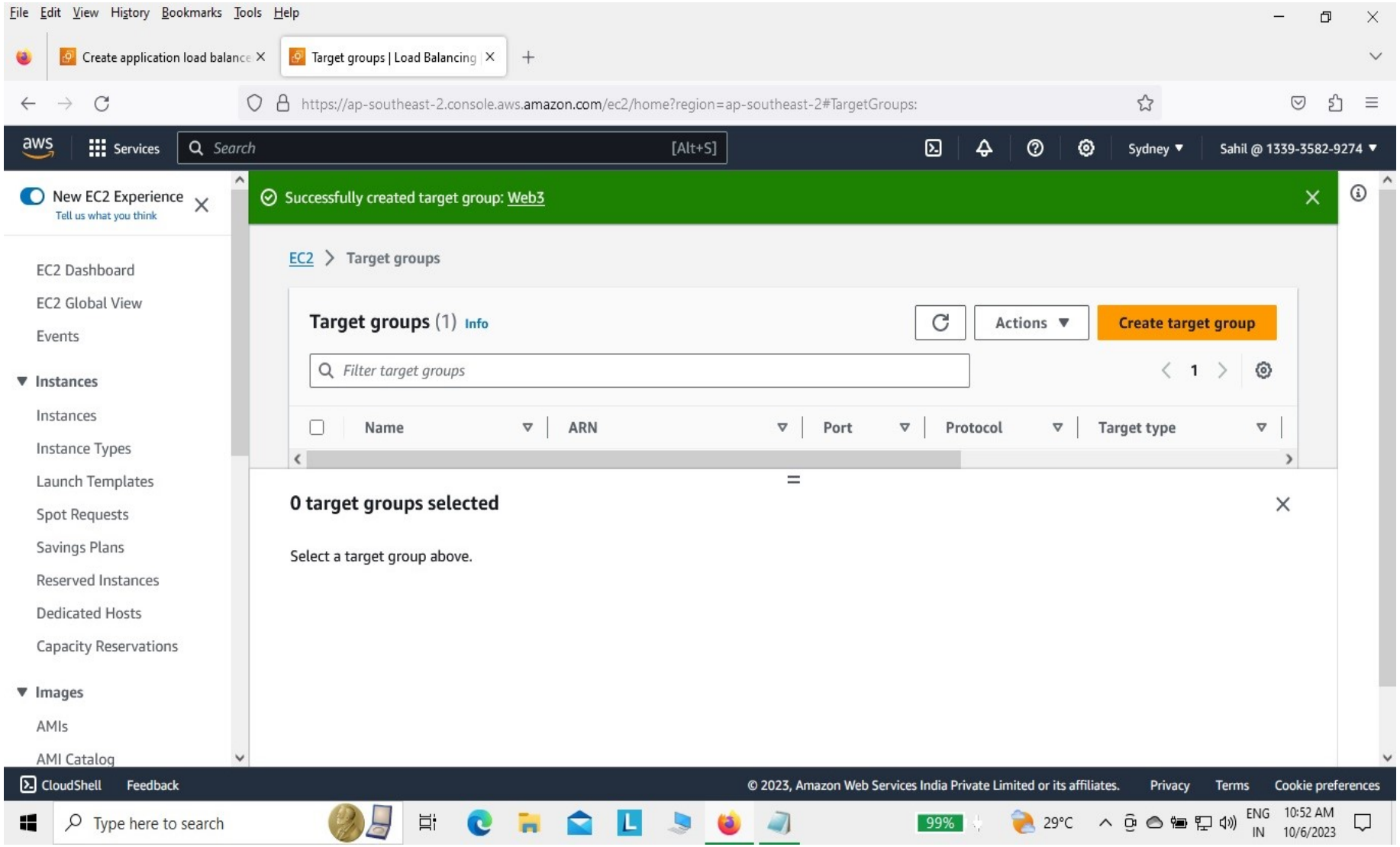
6. Register the instances in target group



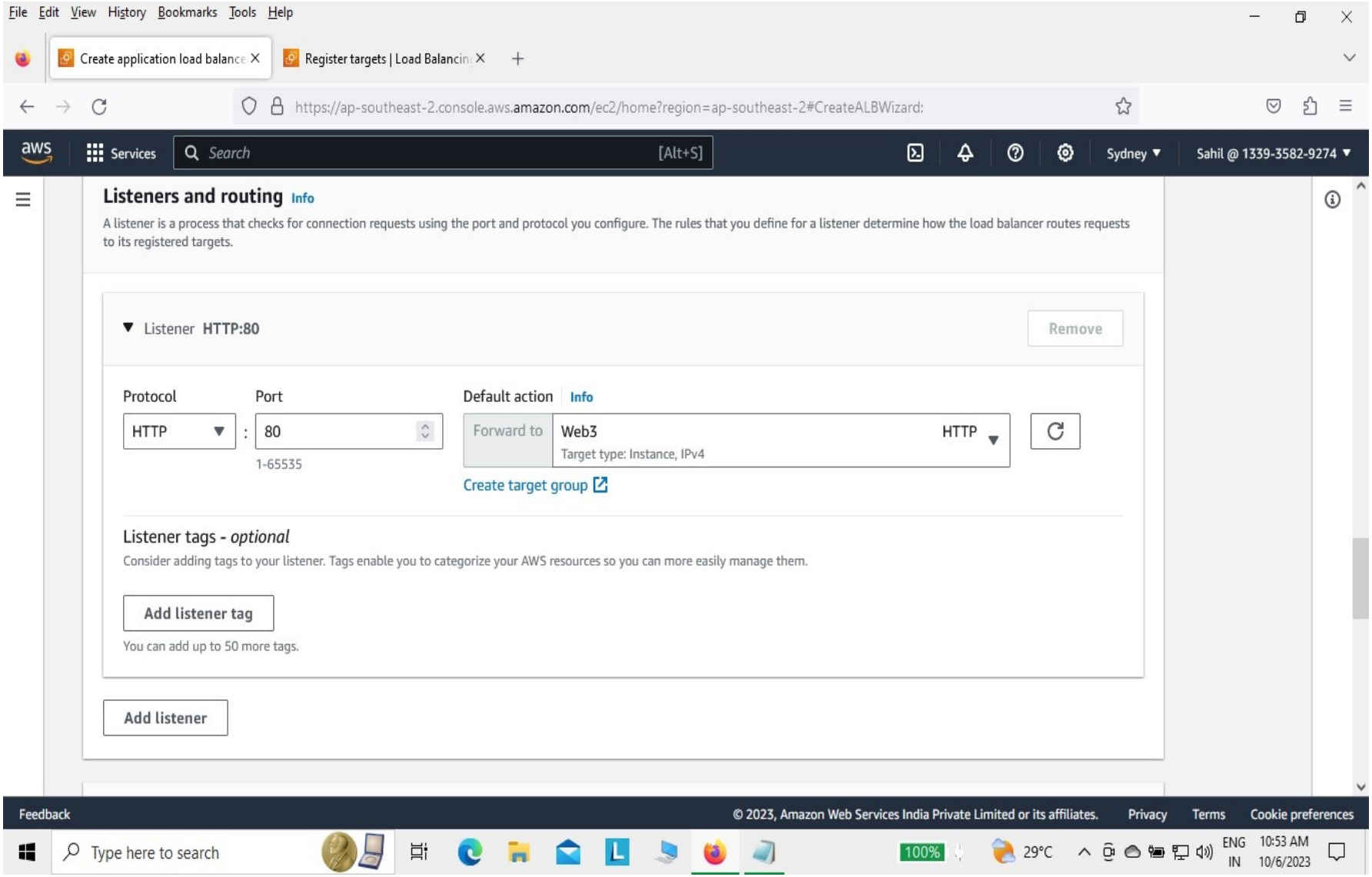
7. Scroll down page and click the create target group button



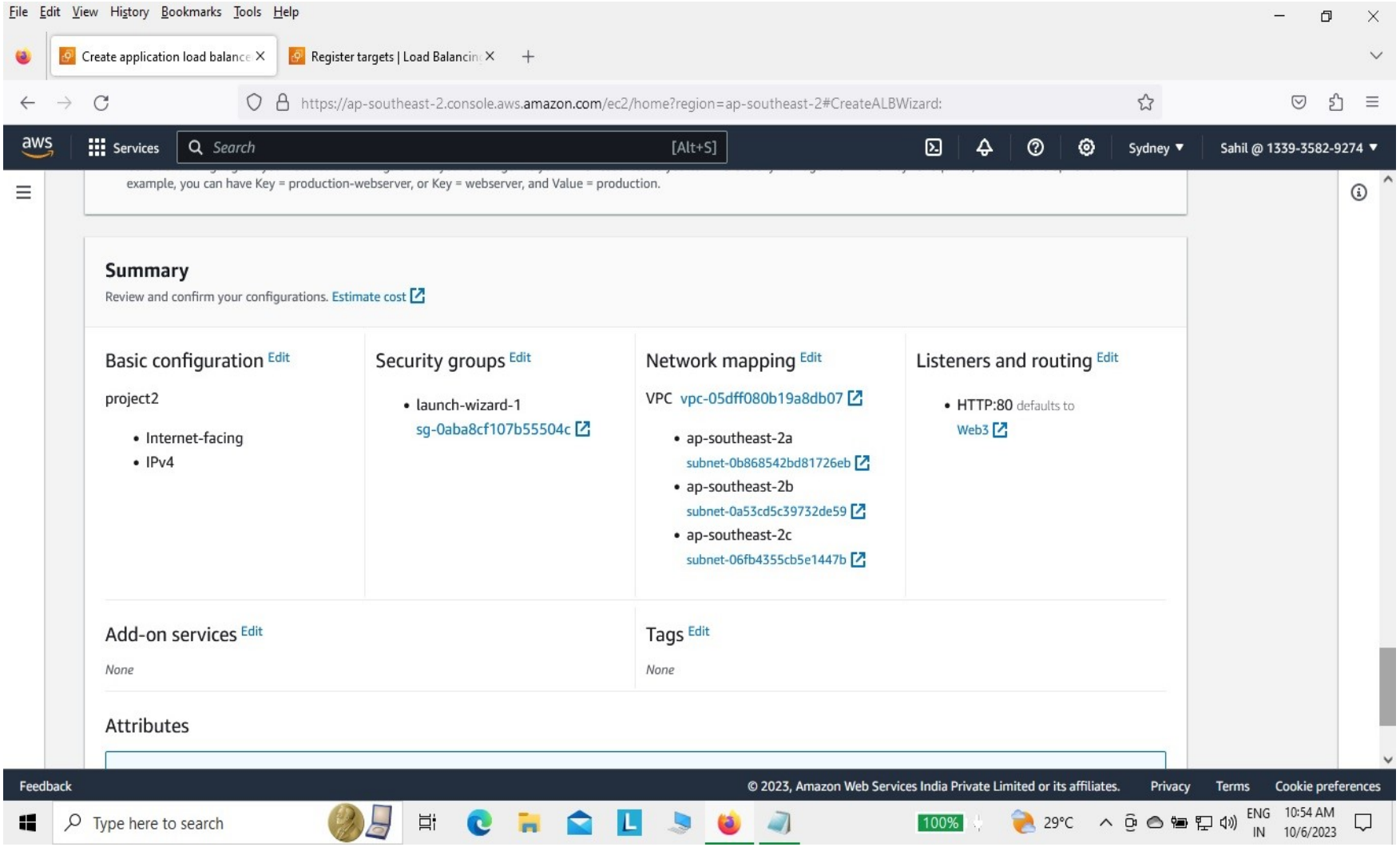
Successfully create target group



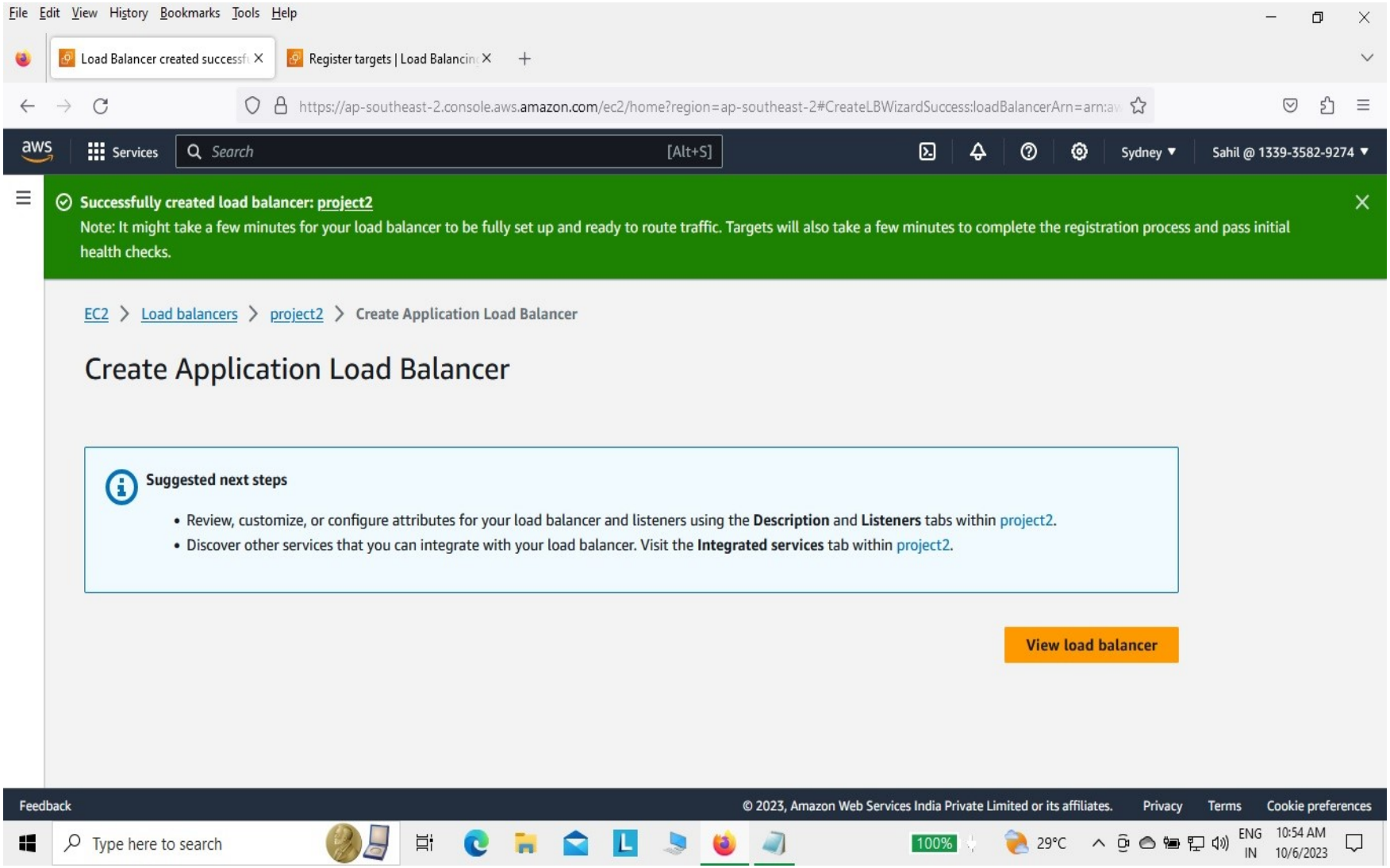
8. Scroll down page and select target group



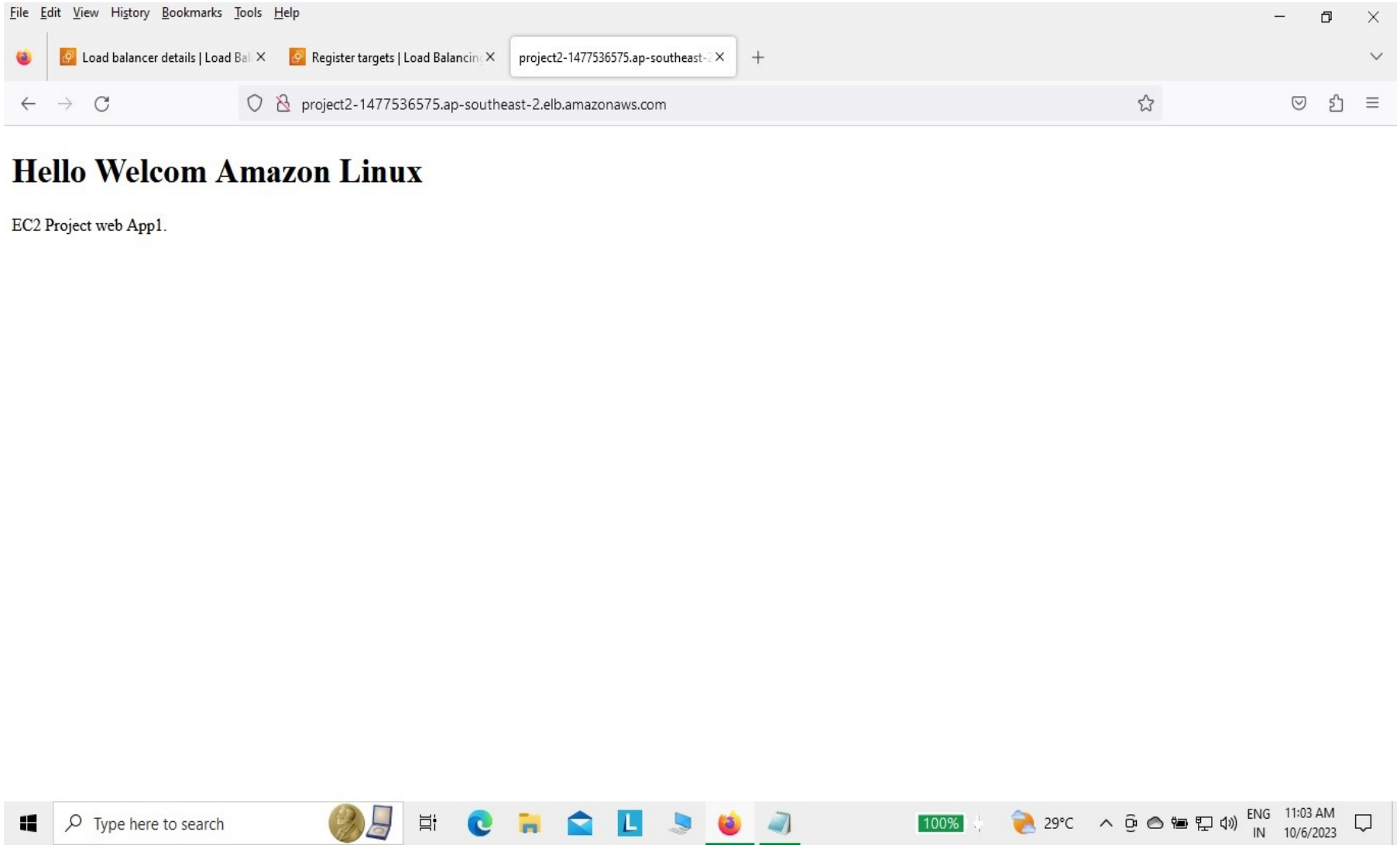
9. Check the summary page and click the load balancer button.



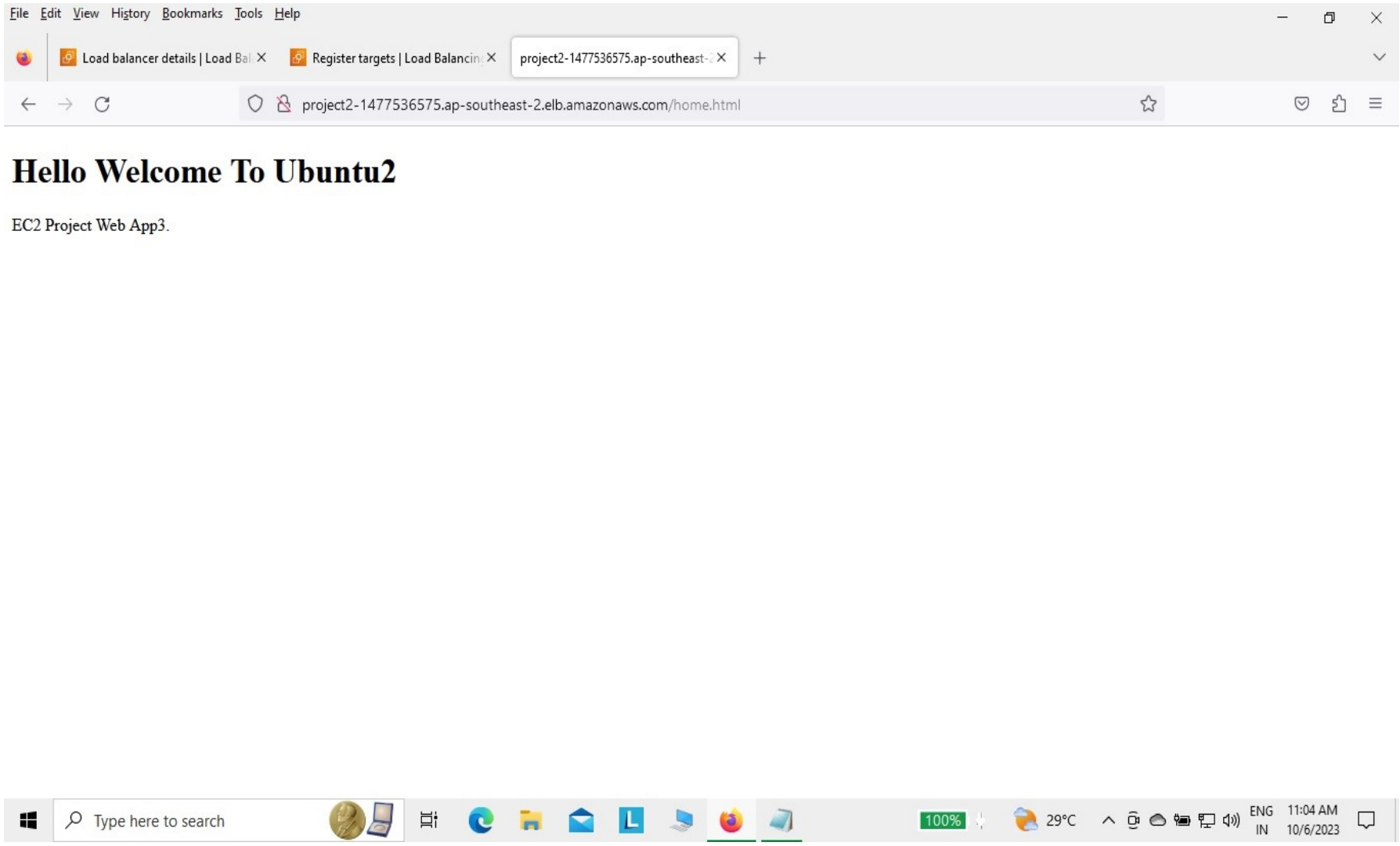
Successfully create load balancer



Go to load balancer page and click the DNS and browse the page. Now running successfully web page



Refresh the browser and now running second web page



Refresh the browser and now running third web page