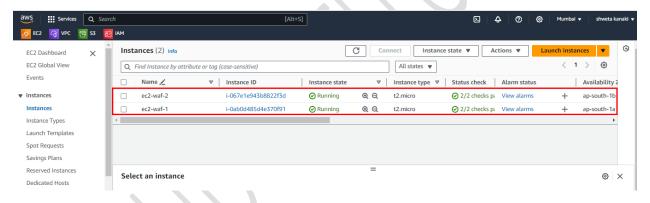


## WEB APPLICATION FIREWALL (AWS WAF)

AWS WAF (Web Application Firewall) is a cloud-based firewall service provided by Amazon Web Services (AWS) that helps protect web applications from common web exploits and vulnerabilities. It offers several benefits and features that enhance the security of web applications.

# SET UP AWS WAF (WEB APPLICATION FIREWALL) FOR AN EC2 INSTANCE

Step 1: Create two EC2 instances

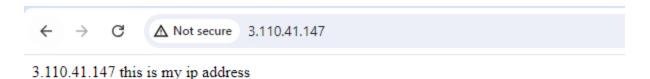


## Configure a simple index.html page in both the instances



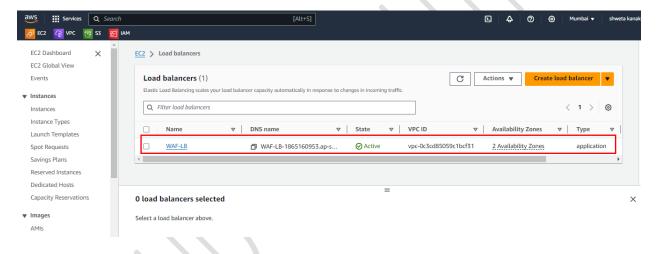




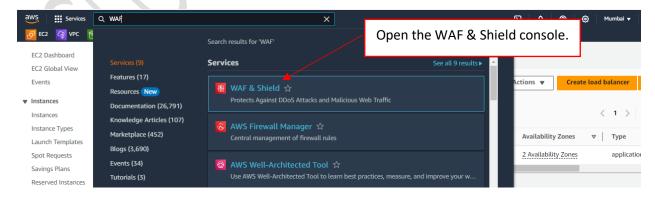


Instance "ec2-waf-2"

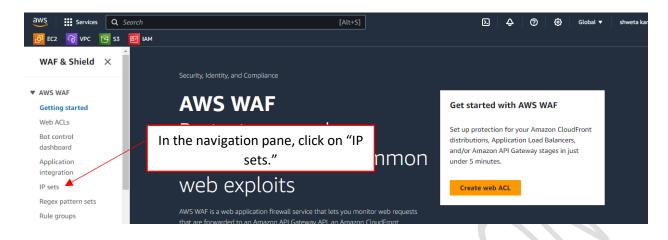
Step 2: Create an Application Load Balancer with the Target Group associated with it.

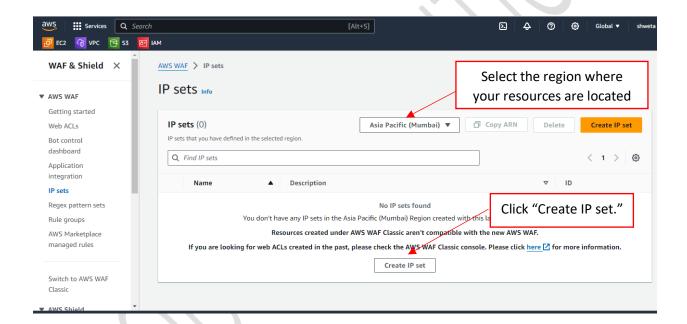


Step 3: Create an IP Set in AWS WAF

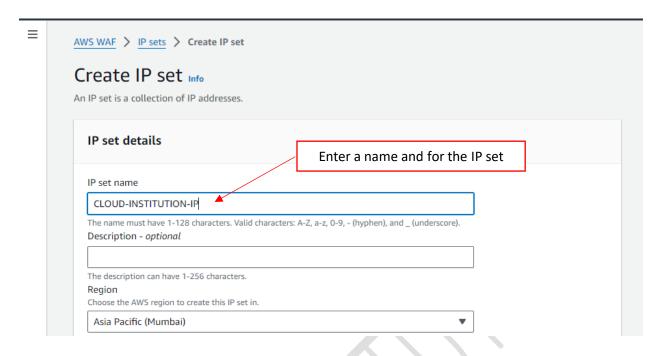




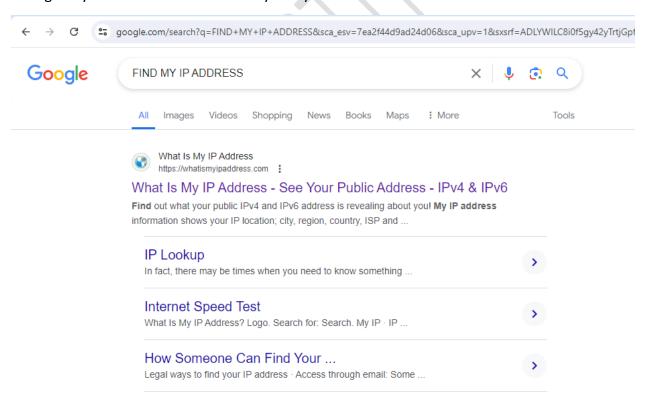




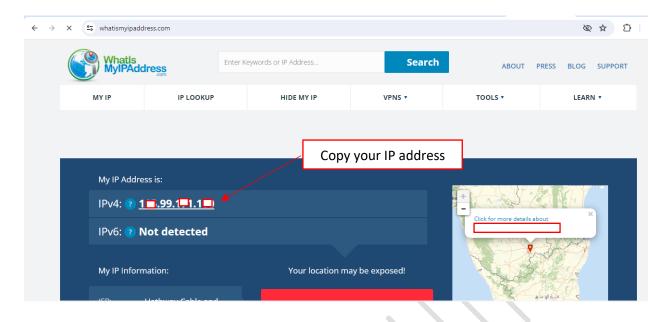


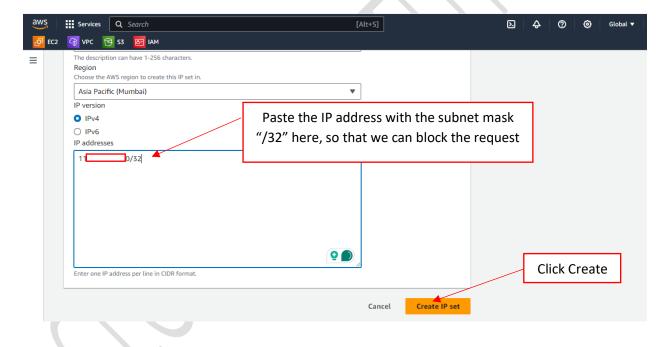


Now go to your browser and check for your systems' IP address.

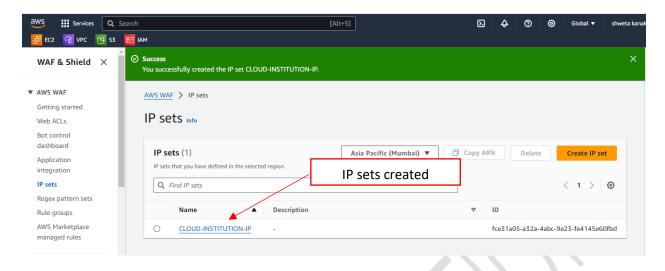


## Cloud Institution

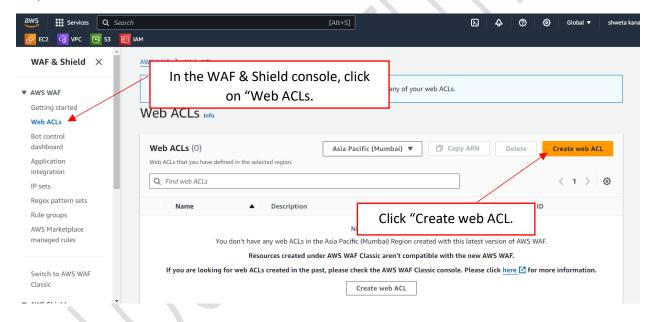




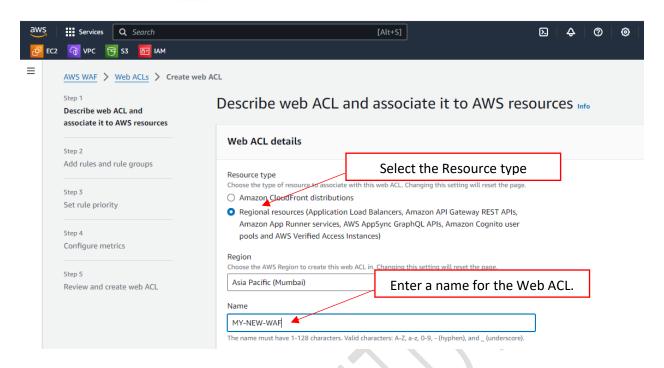


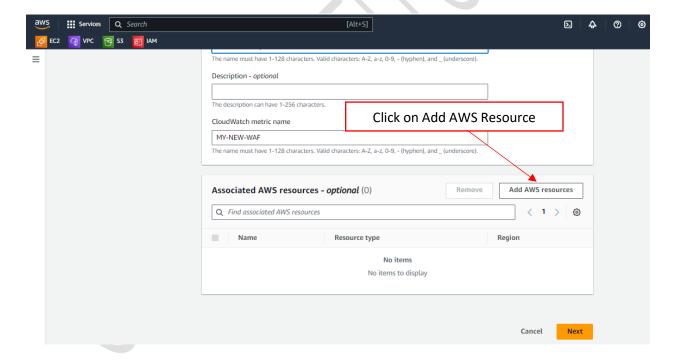


Step 4: Create a Web ACL in AWS WAF.

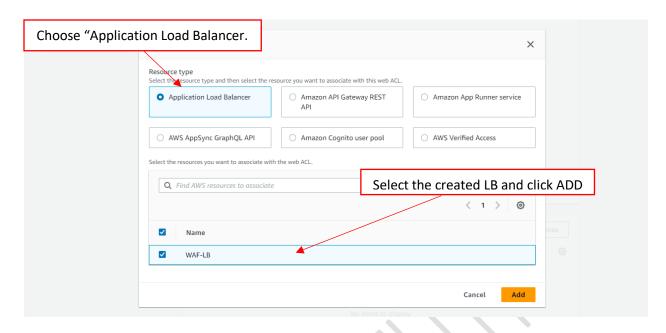


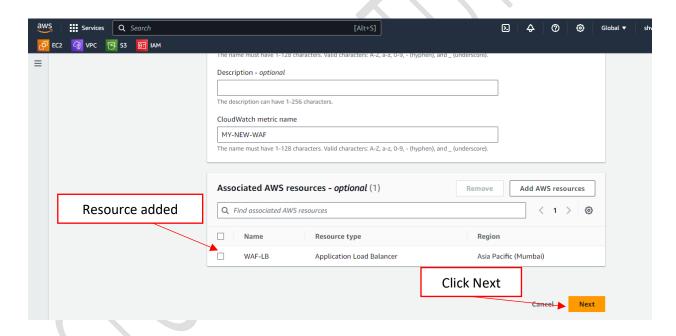






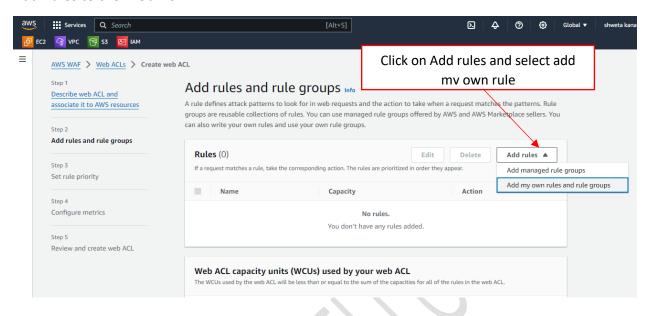


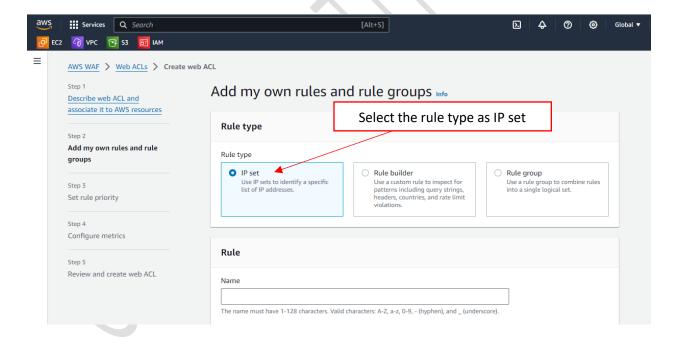




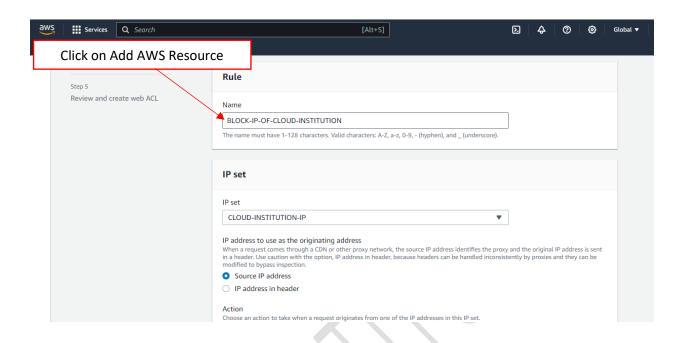


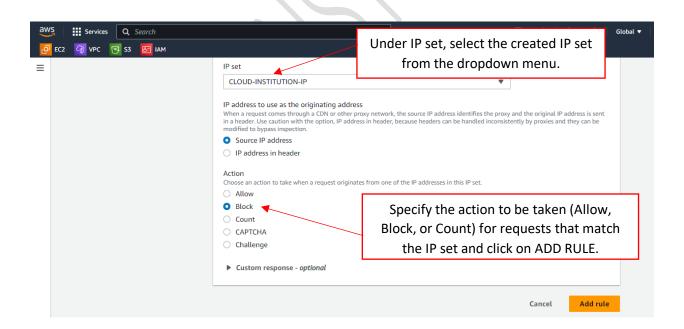
#### Add Rules to the Web ACL



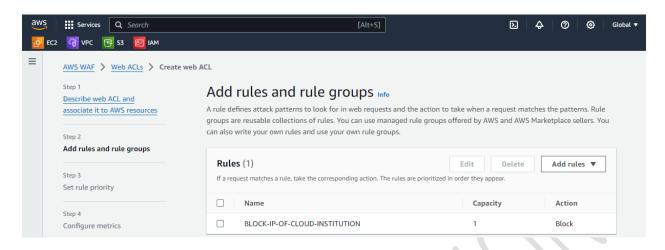


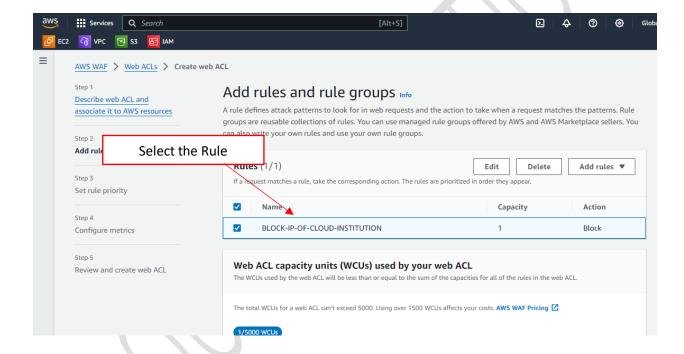




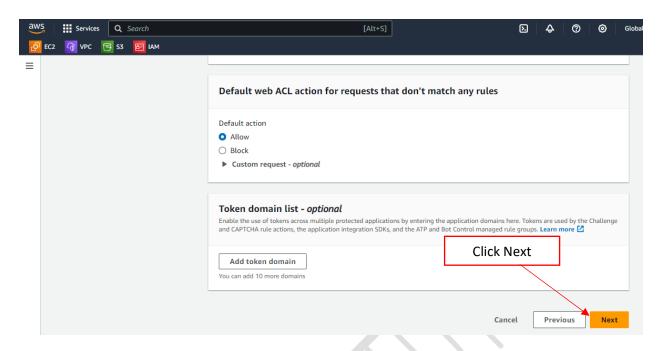


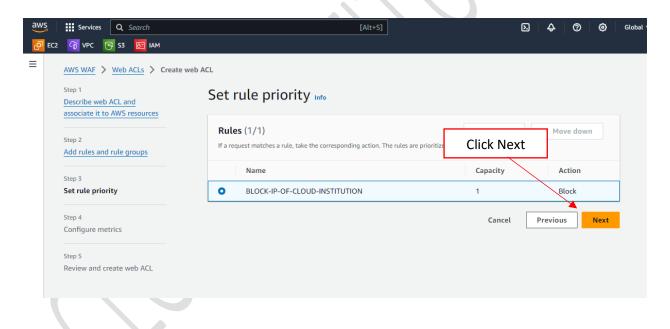




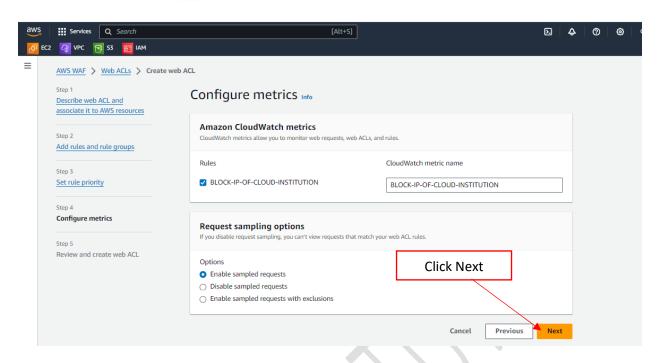


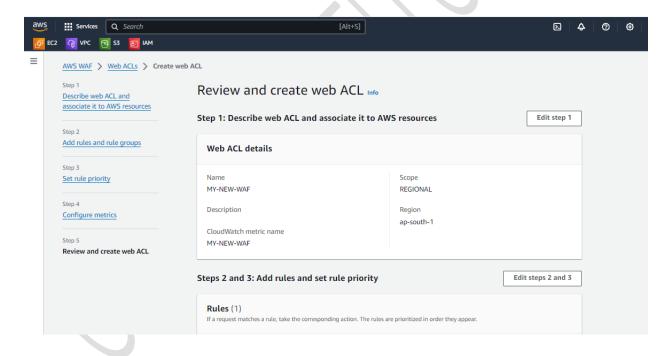




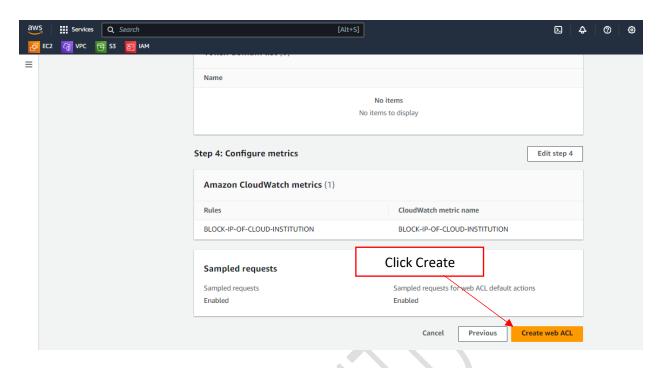


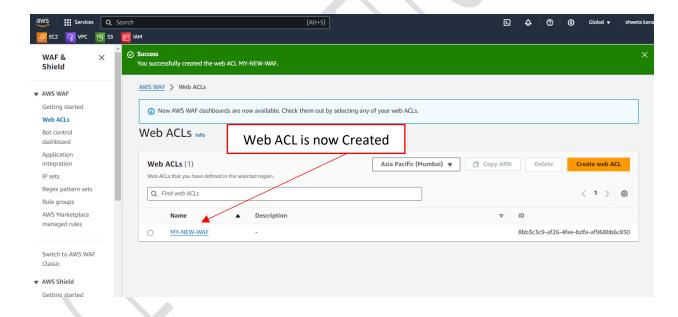












Step 5: Verify the Configuration

## Verify the Association:

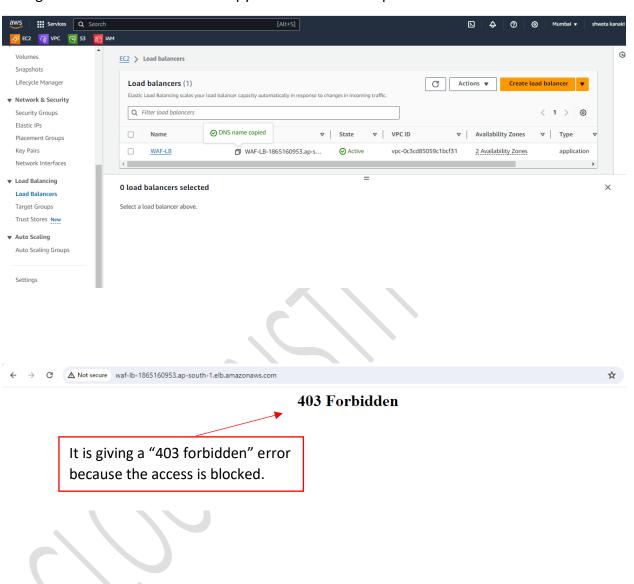
- Navigate to the AWS WAF & Shield console.
- Select your Web ACL and check the "Associated AWS resources" tab.
- Ensure your Application Load Balancer is listed.





## Step 6: Testing the AWS WAF.

Now go to the Load Balancer and copy the DNS Name and paste it in the browser.





We can also see from where the requests are coming from.

