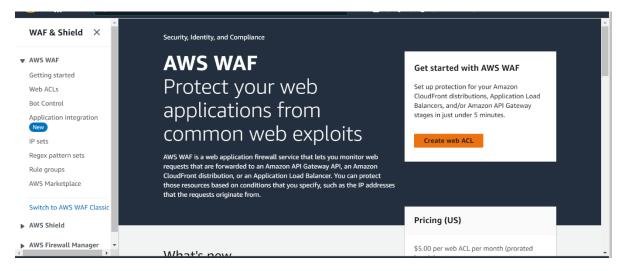
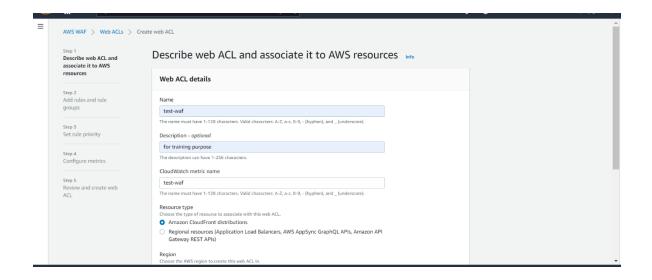
NIDHI SHARMA (BATCH-7)

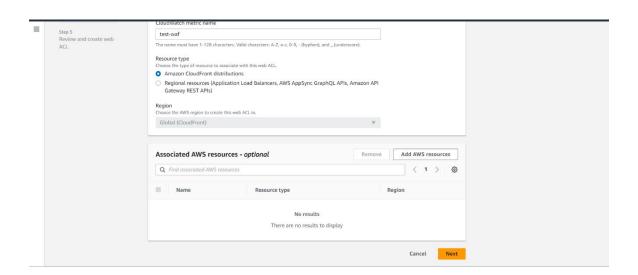
AWS APPLICATION WAF

- * WAF AWS monitors all the web incoming and outgoing requests that are forwarded to API Gateway, Amazon CloudFront, and Application Load Balancer. We will see how to get started with WAF and create web ACL in some steps.
- ✓ **Create web ACL:** First, sign-up for an AWS account, then go to AWS Console and search for Web Application Firewall. You will land on the WAF home page, and choose to **Create Web ACL**.

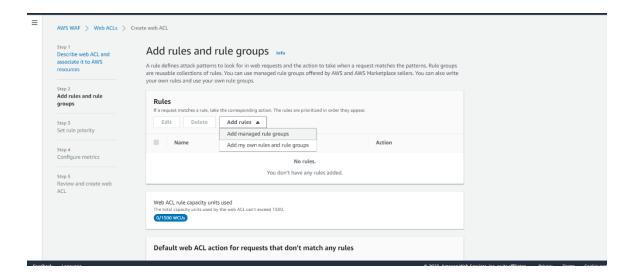


✓ **Give a Name:** Type the name you want to use to identify this web ACL. After that, enter Description if you want (optional) and then hit **Next.**

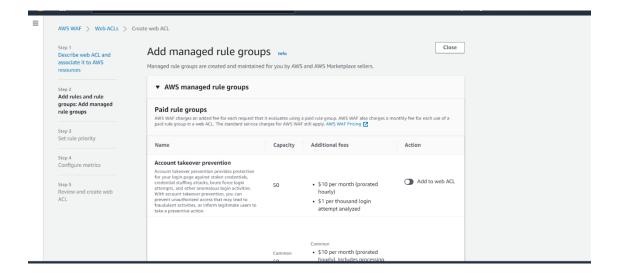




✓ Add an AWS Managed Rules rule group: In the next step, you need to add rules and rule groups. Click on Add managed rule groups. You will land on a new page to manage the ruling group.



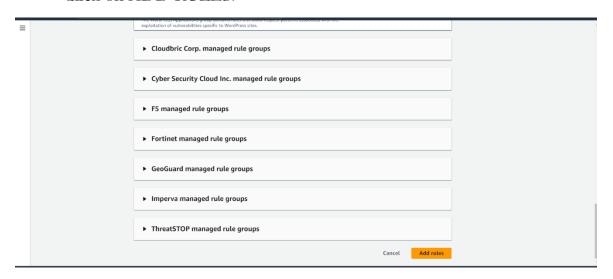
✓ AWS Managed Rules provides you with a collection of managed rule groups. The majority of these are free for Amazon WAF users. After adding managed rule group, choose to save the rule

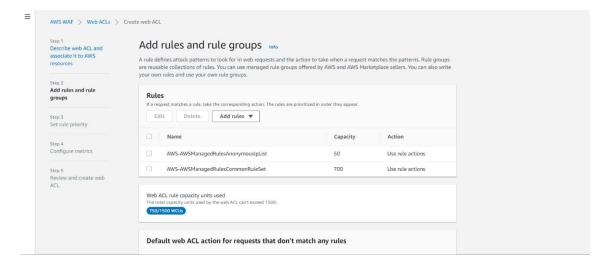


- ✓ The rules we're going to create will define the patterns we want to allow/block. We'll add 2 rules only.
 - ◆ **Regular rule:** This rule protects the application from SQL injection attacks. It will check if the URI path contains an SQL injection.
 - ♦ Rate-based rule: This rule blocks the requests made from the same IP address after they exceed a certain limit in a time period.

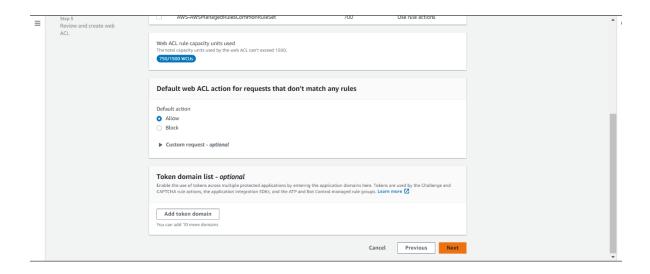
Free rule groups		
Name	Capacity	Action
Admin protection Contains rules that allow you to block external access to exposed admin pages. This may be useful if you are turning third-party software or would like to reduce the risk of a malicious actor gaining administrative access to your application.	100	Add to web ACL
Amazon IP reputation list This group contains rules that are based on Amazon threat intelligence. This is useful if you would like to block sources associated with bots or other threats.	25	Add to web ACL
Anonymous IP list		Add to web ACL
This group contains rules that allow you to block requests from services that allow obficacion of viewer feeterty. This can include request originating from VPM, proute, Tor nodes, and hosting providers. This is useful if you want to filter out viewers that may be trying to hide their identity from your applications.	50	Edit
Core rule set Contains rules that are generally applicable to web applications. This provides protection against exploitations of a wide range of vulnerabilities, including those described in OWASP publications.	700	Add to web ACL
Known bad inputs Contains rules that allow you to block request patterns that are known to be invalid and are associated with exploitation or discovery of vulnerabilities. This can help reduce the risk of a malicious source discovery of vulnerable application.	200	Add to web ACL
Linux operating system Contains rules that block request patterns associated with exploitation of vulnerabilities specific to Linux, including IT states. This can help percent attacks that expose file contents or execute code for which the attackers should not have had access.	200	Add to web ACL
2.22 12 2		

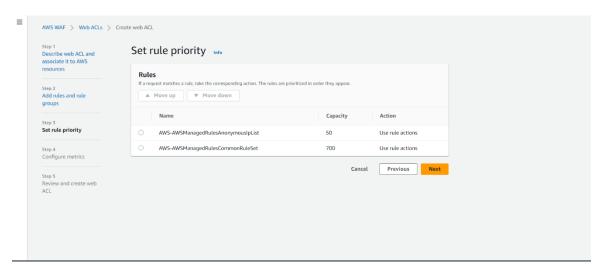
✓ Click on ADD RULES.



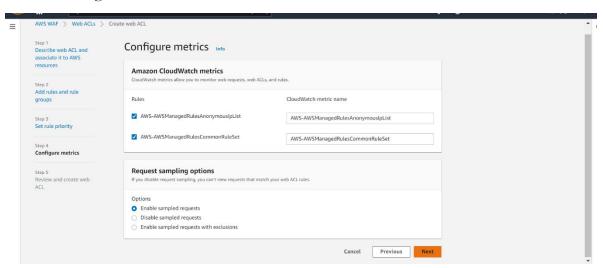


✓ After that, check the added rules and hit **Next**



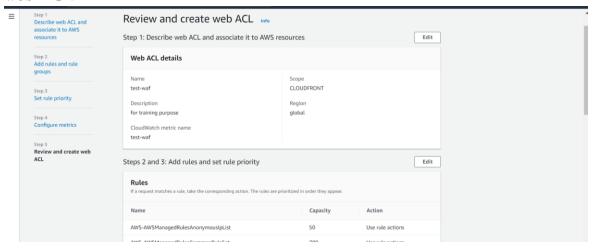


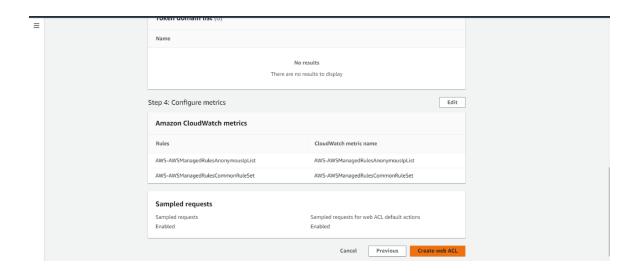
✓ Configure CloudWatch Metrics:

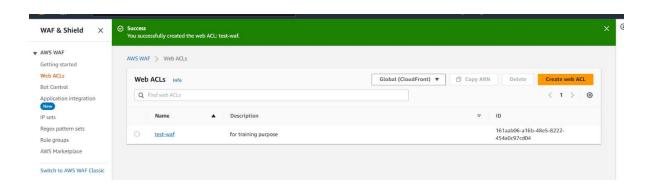


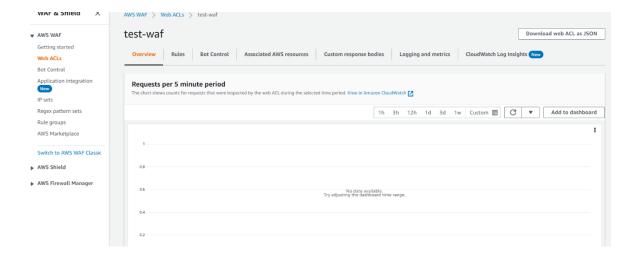
✓ Review Web ACL Configuration:

In the final step, check all the rules and managed groups and hit on create web ACL.









✓ Once you done with the resources remember to delete them.

