Week 6: Web Application Firewall (WAF) Setup

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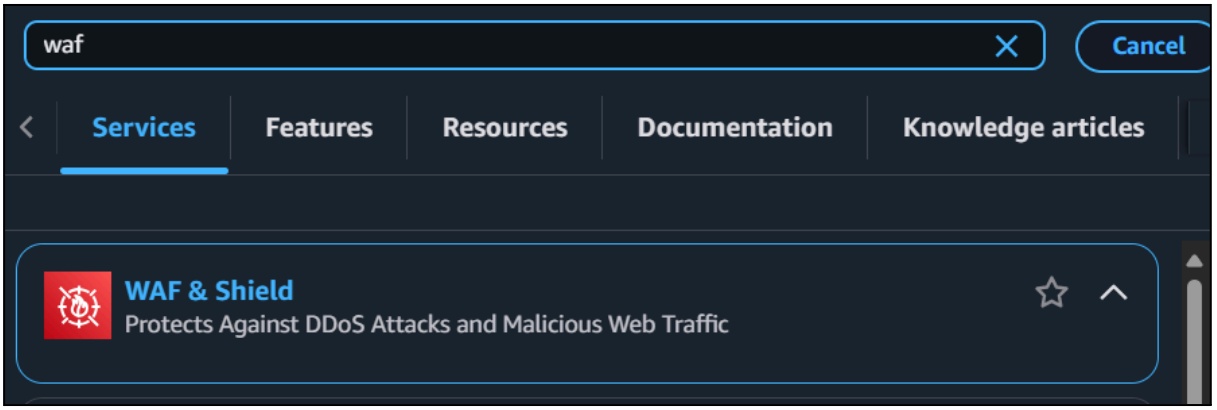
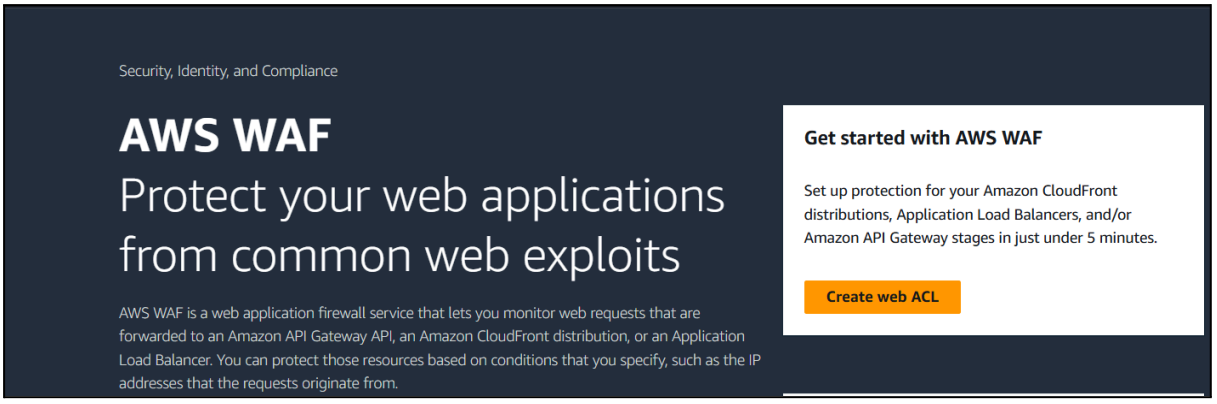
Task- 1) Configure Cloudflare or AWS WAF.
2) Protect against OWASP Top 10 attacks.
3) Upload configuration screenshots.

Task 1- Configure AWS WAF.

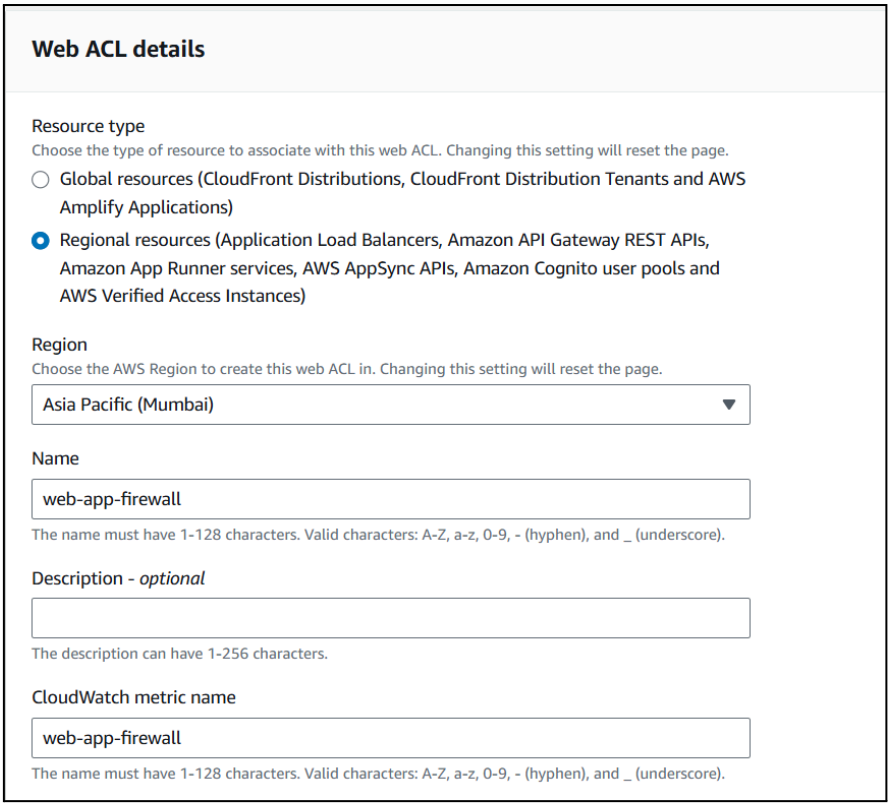
1) Log in to AWS Console. Go to https://aws.amazon.com, sign in to the AWS Management Console.
2) In the Search bar, type **WAF** and open the **AWS WAF & Shield** service.



3) Click on **Create Web ACL**.

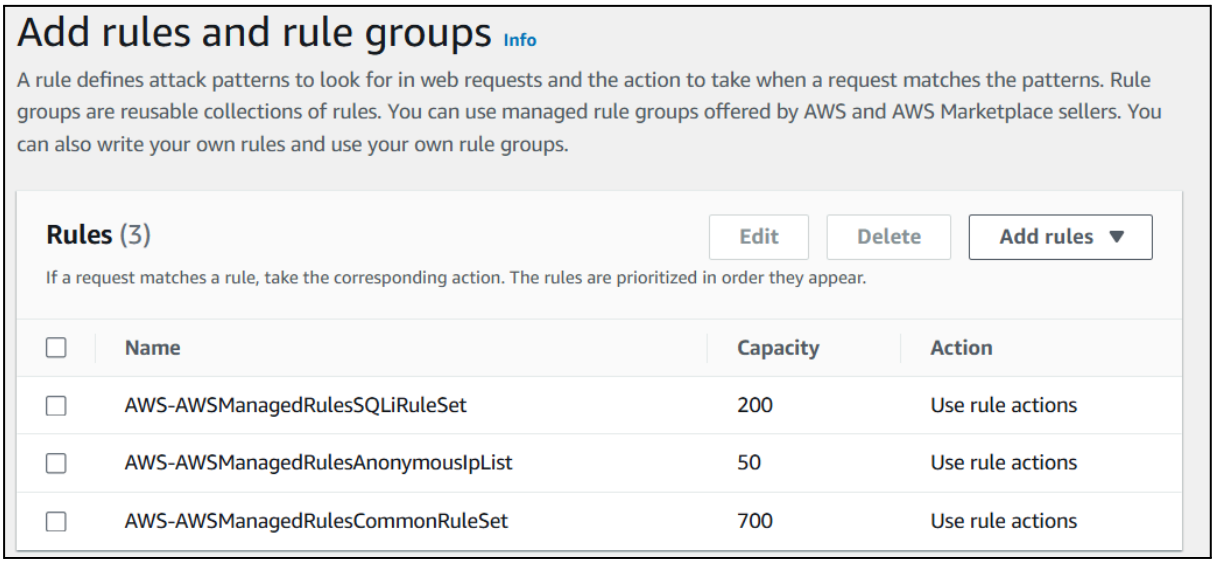


4) Enter the **Web ACL Name** (e.g., `web-app-firewall`) and choose the **Scope**: **CloudFront** (Global) OR **Regional** (for ALB/API Gateway).

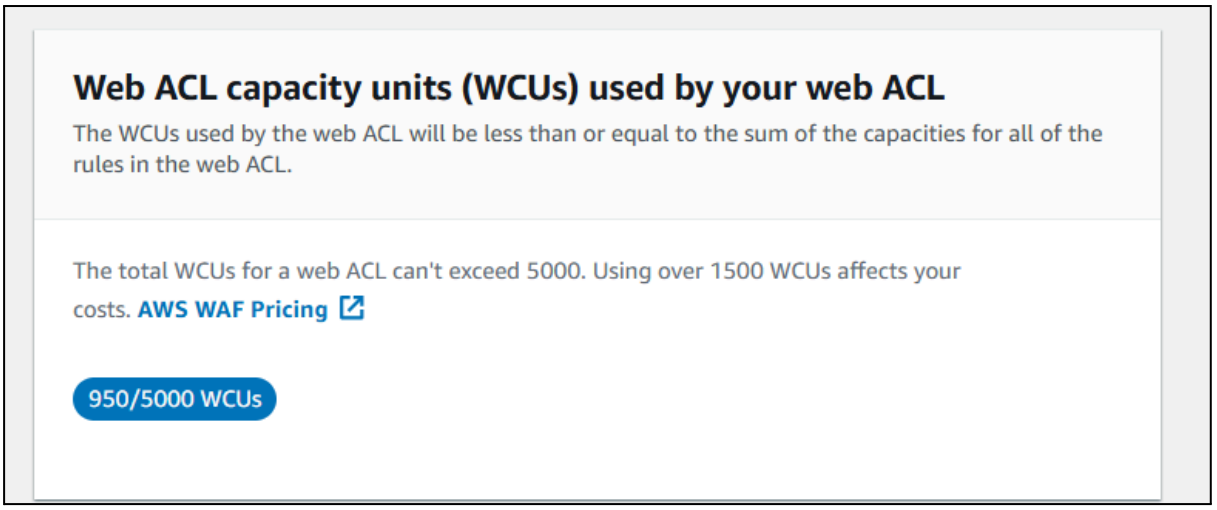


5) Add **Managed Rule Groups** for OWASP Top 10 protection:

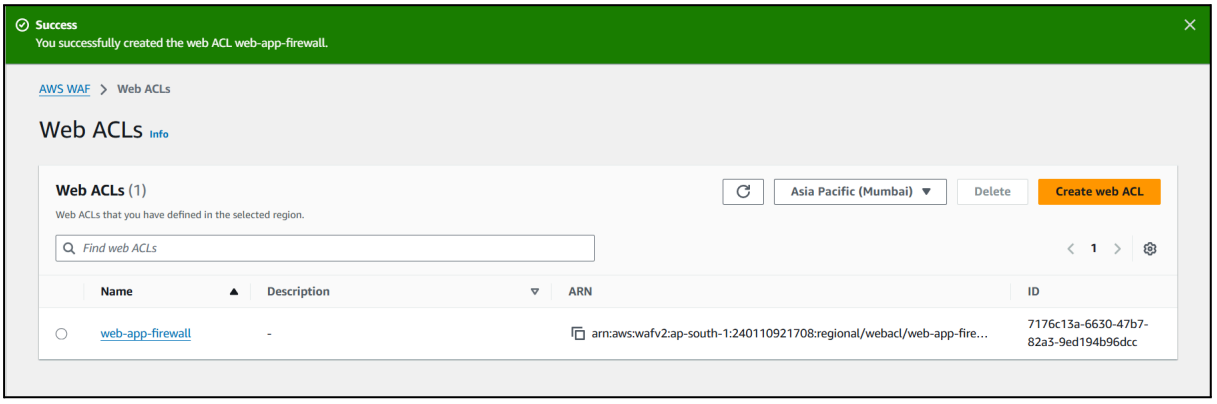
- `AWSManagedRulesCommonRuleSet` (SQL Injection, XSS, etc.)
- `AWSManagedRulesSQLiRuleSet`
- `AWSManagedRulesAnonymousIpList` (Blocks VPN/Tor IPs)



6) Associate the Web ACL with the **CloudFront Distribution** or **ALB** hosting your application.



7) Save and deploy the Web ACL.



Task 2 – Protect Against OWASP Top 10 Attacks

1. Enabled AWS Managed Rules covering: