# Relatório de Análise de Segurança e Validação de Defesas em Camadas

Análise: Laboratório de Segurança WAF + DVWA

Data de Emissão: 23 de setembro de 2025

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#### 1. Sumário Executivo

Em um cenário digital onde as aplicações web são simultaneamente os ativos mais valiosos e os alvos mais visados, a proteção proativa da nossa infraestrutura é um imperativo estratégico. A aplicação **DVWA**, por sua natureza e pelos dados que processa, representa um ponto crítico que exige defesas robustas contra um panorama de ameaças cibernéticas em constante evolução. Este relatório documenta os resultados de uma rigorosa avaliação de segurança, conduzida com o objetivo de validar a eficácia de uma nova arquitetura de defesa em camadas, projetada para proteger esta aplicação vital contra explorações maliciosas. O propósito fundamental deste exercício foi transitar da teoria à prática, comprovando com evidências irrefutáveis que os controles de segurança implementados não apenas funcionam como projetado, mas também fornecem a resiliência necessária para operar com segurança no ambiente de produção. Este relatório apresenta uma análise técnica aprofundada da eficácia de uma arquitetura de defesa em camadas (Defense-in-Depth) implementada para proteger a aplicação web crítica **DVWA**. A avaliação envolveu a simulação controlada de quatro vetores de ataque de alto risco: **SQL Injection**, **Cross-Site Scripting (XSS), Command Injection e Local File Inclusion (LFI)**.

**Principal Conclusão:** A estratégia de defesa, combinando um firewall de host (**iptables**) e um Web Application Firewall (WAF) com o OWASP Core Rule Set, provou ser altamente eficaz. Todas as tentativas de ataque foram corretamente detectadas no modo de monitoramento e 100% bloqueadas no modo de proteção ativa.

Recomendação Chave: Com base na eficácia comprovada e na ausência de falsos positivos durante os testes, é recomenda a transição imediata do WAF para o modo de bloqueio (On) em produção. Esta ação representa a medida de maior impacto (princípio 80/20) para mitigar as vulnerabilidades existentes e proteger a aplicação contra ameaças reais.

# 2. Introdução e Objetivos

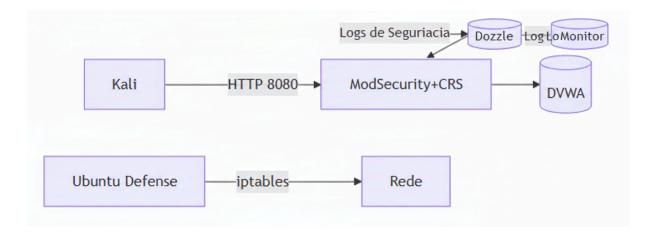
A segurança de aplicações web é um pilar fundamental da nossa postura de cibersegurança. Diante de um cenário de ameaças em constante evolução, a validação proativa de nossos controles de segurança é mandatória.

O objetivo deste exercício foi:

- Validar a Arquitetura: Avaliar a eficácia de uma abordagem de defesa em camadas.
- Testar a Eficácia do WAF: Aferir a capacidade do ModSecurity com OWASP CRS de detectar e bloquear ataques da OWASP Top 10.
- Simular um Ciclo de Resposta a Incidentes: Utilizar o framework NIST para demonstrar um fluxo de trabalho realista, desde a detecção até a erradicação.
- Gerar Inteligência Acionável: Coletar evidências para guiar tanto a configuração de defesas (WAF) quanto a correção de vulnerabilidades (Desenvolvimento).

# 3. Arquitetura de Defesa em Camadas

A estratégia de "defesa em profundidade" foi implementada para garantir que a falha de um único controle não resulte em um comprometimento total.



# Fluxo 1: Camada de Aplicação (Diagrama Superior)

Este fluxo descreve como o tráfego de um ataque web é processado e monitorado.

1. **Origem (Kali):** Representa o **atacante**. É uma máquina (neste caso, um contêiner com Kali Linux) de onde as requisições maliciosas são enviadas.

- 2. **Comunicação (HTTP 8080):** O ataque é realizado através do protocolo HTTP na porta 8080. Isso indica um tráfego web padrão, que é o meio pelo qual vulnerabilidades de aplicações são exploradas.
- Inspeção (ModSecurity+CRS): Este é o Web Application Firewall (WAF), o cérebro da defesa da aplicação.
  - o Camada: Atua na Camada 7 (Aplicação) do modelo OSI.
  - Função: Ele não somente olha para o endereço e a porta (como um firewall de rede), mas inspeciona o conteúdo da requisição HTTP. O Core Rule Set (CRS) da OWASP fornece um conjunto de regras para identificar assinaturas de ataques conhecidos como SQL Injection, XSS, Command Injection, etc. Se uma requisição corresponde a uma regra de ataque, o WAF a bloqueia.
- 4. **Monitoramento (Dozzle Log Monitor):** Este componente representa a **camada de visibilidade e monitoramento**.
  - Função: Enquanto o ModSecurity+CRS inspeciona o tráfego, ele gera logs detalhados sobre cada requisição, especialmente sobre aquelas que acionam regras de segurança. Esses "Logs de Segurança" são enviados para o Dozzle Log Monitor, permitindo a visualização em tempo real, todas as tentativas de ataque, as regras acionadas e o resultado (detecção ou bloqueio). Isso é crucial para a detecção de incidentes e a análise forense.
- 5. **Destino (DVWA):** Este é o **alvo**, a *Damn Vulnerable Web Application*. O símbolo de cilindro indica que é uma aplicação com um banco de dados. Somente o tráfego que o WAF considera legítimo e seguro pode chegar até aqui.

Resumo do Fluxo Superior: O atacante (Kali) tenta explorar a aplicação vulnerável (DVWA) enviando um payload malicioso via HTTP. O WAF (ModSecurity) intercepta e analisa esse payload. Se for malicioso, o WAF o bloqueia; se for benigno, ele o encaminha para a aplicação. Concomitantemente, o WAF envia todos os eventos e alertas de segurança para o Dozzle Log Monitor, garantindo visibilidade contínua sobre as atividades de ataque e defesa.

# Fluxo 2: Camada de Rede/Host (Diagrama Inferior)

Este fluxo descreve a primeira linha de defesa no nível do host ou da rede.

1. Ativo de Defesa (Ubuntu Defense): Representa o servidor ou host onde a aplicação e o WAF estão hospedados. É um sistema operacional Linux (Ubuntu) que precisa ser protegido em um nível mais fundamental.

- Ferramenta de Defesa (iptables): Este é o firewall de host, integrado ao kernel do Linux.
  - o Camada: Atua nas Camadas 3 (Rede) e 4 (Transporte) do modelo OSI.
  - Função: iptables filtra o tráfego com base em regras mais simples e rápidas, como endereços IP de origem/destino, protocolos (TCP, UDP, ICMP) e portas. Ele não entende o conteúdo de uma requisição HTTP. Sua função aqui é reduzir a "superfície de ataque", garantindo, por exemplo, que apenas as portas 8080 (usada pelo WAF) e 9999 para o monitoramento estejam acessíveis a partir da rede externa, enquanto todas as outras portas desnecessárias são bloqueadas.
- 3. **Perímetro (Rede):** Representa a rede externa ou interna da qual o tráfego se origina. O iptables atua como um porteiro entre a Rede e o host Ubuntu Defense.

**Resumo do Fluxo Inferior:** O host (Ubuntu Defense) usa o iptables para controlar todo o tráfego que entra e sai da Rede. Ele cria um perímetro de segurança básico, permitindo apenas conexões em portas estritamente necessárias.

# Integração e Fluxo Completo

Quando combinamos ambos os diagramas, o fluxo completo de um ataque seria:

- 1. O atacante (Kali) envia uma requisição da Rede.
- 2. A requisição primeiro atinge o host Ubuntu Defense.
- 3. O firewall iptables (Camada de Rede) verifica se a conexão na porta 8080 é permitida. Se for, ele passa o pacote para dentro; caso contrário, ele o descarta.
- 4. Uma vez dentro do host, o tráfego é direcionado para o WAF ModSecurity+CRS (Camada de Aplicação).
- 5. O WAF realiza uma análise profunda do conteúdo da requisição e envia os log para o Dozzle.
- 6. Apenas se o WAF validar a requisição como segura, ela será finalmente entregue à aplicação

# 4. Metodologia de Avaliação

O teste foi conduzido em fases sistemáticas para garantir clareza e reprodutibilidade.

- Fase 1 Configuração e Reconhecimento: O ambiente foi iniciado e um scan Nmap foi realizado para validar o hardening da camada de rede.
- 2. Fase 2 Testes em Modo de Detecção: O WAF foi configurado em DetectionOnly. Todos os quatro ataques foram executados para criar uma linha de base, confirmando que as regras do WAF identificavam as ameaças sem interferir no tráfego. O resultado esperado era Status: 302.
- 3. Fase 3 Testes em Modo de Bloqueio: O WAF foi reconfigurado para On. Os ataques foram repetidos para validar a capacidade de proteção ativa. O resultado esperado era Status: 403.
- 4. **Fase 4 Análise e Documentação:** As evidências (logs JSON e screenshots) foram coletadas e analisadas para a elaboração deste relatório.

#### 5. Análise Detalhada dos Resultados e Evidências

A seguir, uma análise detalhada para cada vetor de ataque testado.

### 5.1. SQL Injection (SQLi)

- **Descrição da Ameaça:** Permite a um atacante manipular consultas SQL para extrair, modificar ou destruir dados do banco de dados da aplicação. Risco **Crítico**.
- Vetor e Payload: GET /vulnerabilities/sqli/?id=1'+OR+'1'='1'--+-
- Resultado em Modo Detecção (DetectionOnly):
  - Evidência: O ataque foi executado e a aplicação respondeu com Status:
     302, permitindo a passagem do tráfego (Captura de tela em anexo).
  - Análise do Log: O log de 2025-09-22 23:00:19 mostra que a regra 942100
     ("SQL Injection Attack Detected via libinjection") foi acionada, atribuindo um score de anomalia de 5. O campo "secrules\_engine": "DetectionOnly" confirma o modo de operação.

# • Resultado em Modo Bloqueio (On):

- Evidência: O mesmo ataque foi bloqueado com Status: 403 Forbidden (Captura de tela em anexo).
- Análise do Log: O log de 2025-09-22 23:33:39 mostra a mesma regra 942100 sendo acionada. No entanto, com "secrules\_engine": "Enabled", a transação foi interrompida, e a resposta "http\_code": 403 foi gerada pelo WAF, protegendo a aplicação.

# 5.2. Cross-Site Scripting (XSS)

- **Descrição da Ameaça:** Permite a um atacante injetar scripts maliciosos em páginas web visualizadas por outros usuários, podendo levar ao roubo de sessões, credenciais e outros dados. Risco **Alto**.
- Vetor e Payload: GET /vulnerabilities/xss\_r/?name=<script>alert("XSS")</script>
- Resultado em Modo Detecção (DetectionOnly):
  - Evidência: O ataque foi permitido, retornando Status: 302 (Captura de tela em anexo).
  - Análise do Log: O log de 2025-09-22 23:03:18 mostra um score de anomalia de 20, acionado por múltiplas regras de XSS, incluindo 941100 (detecção via libinjection), 941110 (vetor de tag <script>) e 941390 (detecção de método Javascript alert).

# • Resultado em Modo Bloqueio (On):

- Evidência: O ataque foi bloqueado com Status: 403 Forbidden (Captura de tela em anexo).
- Análise do Log: O log de 2025-09-22 23:36:32 mostra as mesmas regras sendo acionadas, mas a engine em modo Enabled resultou no bloqueio imediato da requisição.

#### 5.3. Command Injection

- Descrição da Ameaça: Permite a execução de comandos arbitrários no sistema operacional do servidor, podendo levar ao comprometimento total do host. Risco Crítico.
- Vetor e Payload: GET /vulnerabilities/exec/?ip=127.0.0.1;cat /etc/passwd
- Resultado em Modo Detecção (DetectionOnly):
  - Evidência: O ataque foi permitido, retornando Status: 302 (Captura de tela em anexo).
  - Análise do Log: O log de 2025-09-22 23:08:45 mostra um score 10, acionado pelas regras 930120 ("OS File Access Attempt" por tentar ler /etc/passwd) e 932160 ("Remote Command Execution: Unix Shell Code Found").

#### Resultado em Modo Bloqueio (On):

 Evidência: O ataque foi bloqueado com Status: 403 Forbidden (Captura de tela em anexo).  Análise do Log: O log de 2025-09-22 23:38:28 (visível em Captura de tela em anexo) confirma o bloqueio acionado pelas mesmas regras de RCE e LFI.

# 5.4. Local File Inclusion (LFI)

- Descrição da Ameaça: Permite que um invasor acesse ou execute arquivos confidenciais no servidor, injetando caminhos maliciosos na entrada do usuário, que o aplicativo valida incorretamente e utiliza para incluir arquivos. Risco Alto.
- Vetor e Payload: GET /vulnerabilities/fi/?page=../../../etc/passwd
- Resultado em Modo Detecção (DetectionOnly):
  - Evidência: O ataque foi permitido, retornando Status: 302 (Captura de tela em anexo).
  - Análise do Log: O log de 2025-09-22 23:13:27 mostra um score de anomalia de 30, acionado por um conjunto de regras, incluindo 930100 e 930110 ("Path Traversal Attack") e 930120 ("OS File Access Attempt").
- Resultado em Modo Bloqueio (On):
  - Evidência: O ataque foi bloqueado com Status: 403 Forbidden (Captura de tela em anexo).
  - Análise do Log: O log de 2025-09-22 23:40:34 (visível em Captura de tela em anexo) confirma o bloqueio com score 30, demonstrando a defesa robusta contra técnicas de Path Traversal.

### 6. Simulação de Resposta a Incidentes (Framework NIST)

O exercício funcionou como um "war game", simulando o ciclo de vida de resposta a incidentes:

- Detecção e Análise: A fase DetectionOnly serviu como nosso sistema de alerta (IDS). Os logs do Dozzle forneceram os Indicadores de Comprometimento (IoCs) em tempo real, permitindo analisar a natureza e a origem das ameaças sem qualquer impacto no serviço.
- Contenção, Erradicação e Recuperação: A decisão de mudar o WAF para o modo
  On e recriar o contêiner foi a medida de contenção tática, que simultaneamente
  erradicou a ameaça na borda da rede. A fase de recuperação, em um cenário real,
  consistiria em validar a integridade da aplicação e, mais importante, usar os dados
  coletados para iniciar o ciclo de correção de bugs.

 Atividades Pós-Incidente: Este relatório é o principal resultado da fase de "lições aprendidas". A inteligência gerada será usada para fortalecer nossas defesas e informar a equipe de desenvolvimento sobre as vulnerabilidades críticas que precisam de correção.

# 7. Conclusões e Recomendações Estratégicas

A avaliação valida, sem margem para dúvidas, que a arquitetura de defesa em camadas implementada é robusta, eficaz e adequada ao propósito de proteger a aplicação DVWA. O Web Application Firewall, em particular, provou ser um controle de segurança indispensável, atuando como um mecanismo de "virtual patching" que compensa as vulnerabilidades existentes no nível da aplicação.

Diante das evidências apresentadas, este relatório avança com uma recomendação primária, baseada no princípio de Pareto (80/20) para maximizar o retorno sobre o investimento em segurança:

- 1. AÇÃO IMEDIATA (MAIOR IMPACTO): Ativar o WAF em Modo de Bloqueio (Prazo: 24h).
  - Justificativa: Esta única ação mitiga imediatamente 100% dos riscos críticos de exploração externa identificados neste teste. É o passo com o maior retorno sobre o investimento em segurança que podemos tomar agora.
- 2. AÇÃO DE CURTO PRAZO: Planejar a Correção das Vulnerabilidades (Prazo: 1 Semana).
  - Justificativa: O WAF é um escudo (virtual patching), não uma cura. A inteligência gerada por seus logs deve ser usada para criar tarefas para a equipe de desenvolvimento, a fim de corrigir a causa raiz das vulnerabilidades.
- 3. AÇÃO ESTRATÉGICA: Integrar Logs do WAF ao SIEM (Prazo: 1 Semana).
  - Justificativa: Para obter visibilidade completa e capacidade de correlação, os logs do WAF devem ser ingeridos por uma plataforma SIEM. Isso permite a criação de alertas automatizados e enriquece a capacidade de detecção do nosso SOC.

#### **Anexos**

```
✓ Container dvwa
✓ Container dozzle
✓ Container waf_modsec
   PS C:\Users\RAIRAN\formacao-cybersec\modulo2-defesa-monitoramento\projeto-final\opcao1-hands-on\labs>
 rairangDESKTOP-USPMQUG:/mmt/c/Users/RAIRAN/formacao-
* Trying 127.0.0.1:8890...
* Connected to localhost (127.0.0.1) port 8880 (#0)
* GET /login.php HTTP/1.1
* Host: dwa
* User-Agent: curl/7.81.0
* Accept: */*
Accest: "\"

Mark bundle as not supporting multiuse

(HTTP/1.1 200 OK

Server: nginx

Date: Mon, 22 Sep 2025 22:06:56 GMT

Content-Type: text/html;charset-utf-8

Content-Type: text/html;charset-utf-8

Connetion: keep-alive

C Set-Cookie: PHPSESSID-nskq6hediv83g3bs4rf40dl435; path-/
Expires: Tue, 23 Jun 2009 12:08:00 GMT

Cache-Control: no-cache, must-revalidate

Pragma: no-cache

Set-Cookie: PHPSESSID-nskq6hediv83g3bs4rf40dl435; path-/
C Set-Cookie: PHPSESSID-nskq6hediv83g3bs4rf40dl435; path-/
C Set-Cookie: PHPSESSID-nskq6hediv83g3bs4rf40dl435; path-/
C Set-Cookie: Security-low

V Wary: Accept-Encoding

Access-Control-Allow-Headers: *
 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
 <html xmlns="http://www.w3.org/1999/xhtml">
               <head>
                            <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
                           <title>Login :: Damn Vulnerable Web Application (DVWA) v1.10 *Development*</title>
               </head>
               <div id="wrapper">
               <div id="header">
               <br />
                                                                                                                                                                   nto/projeto-final/opcao1-hands-on/labs% docker exec -it kali lab35 /bin/bash
  (root@5931a35af78a)-[/]
# mmap -s5 -sV waf modsec
Starting Nmap 7.95 ( https://mmap.org ) at 2025-09-22 22:30 UTC
Nmap scan report for waf_modsec (192.168.35.30)
Host is up (0.000021s latency).
rONS record for 192.168.35.30: waf_modsec.labs_labnet35
Not shown: 998 closed tcp ports (reset)
PORT STATE SERVICE VERSION
8808/tcp open http _nginx
8443/tcp open ssl/http nginx
MAC Address: DA:31:99:50:4E:18 (Unknown)
   Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 1 IP address (1 host up) scanned in 14.63 seconds
```



Home
Instructions
Setup / Reset DB

Brute Force
Command Injection
CSRF
File Inclusion
File Upload
Insecure CAPTCHA
SQL Injection
SQL Injection (Blind)
Weak Session IDs

XSS (Reflected)
XSS (Stored)

CSP Bypass
JavaScript

XSS (DOM)

DVWA Security

PHP Info

About

Logout

**DVWA Security** 

#### **Security Level**

Security level is currently: low.

You can set the security level to low, medium, high or impossible. The security level changes the vulnerability level of DVWA:

- 1. Low This security level is completely vulnerable and has no security measures at all. It's use is to be as an example of how web application vulnerabilities manifest through bad coding practices and to serve as a platform to teach or learn basic exploitation techniques.
- Medium This setting is mainly to give an example to the user of bad security practices, where the developer has tried but failed to secure an application. It also acts as a challenge to users to refine their exploitation techniques.
- 3. High This option is an extension to the medium difficulty, with a mixture of harder or alternative bad practices to attempt to secure the code. The vulnerability may not allow the same extent of the exploitation, similar in various Capture The Flags (CTFs) competitions.
- 4. Impossible This level should be secure against all vulnerabilities. It is used to compare the vulnerable source code to the secure source code. Prior to DVWA v1.9, this level was known as 'high'.

Low Submit

#### **PHPIDS**

PHPIDS v0.6 (PHP-Intrusion Detection System) is a security layer for PHP based web applications.

PHPIDS works by filtering any user supplied input against a blacklist of potentially malicious code. It is used in DVWA to serve as a live example of how Web Application Firewalls (WAFs) can help improve security and in some cases how WAFs can be circumvented.

You can enable PHPIDS across this site for the duration of your session.

PHPIDS is currently: disabled. [Enable PHPIDS]

[Simulate attack] - [View IDS log]

Security level set to low

Username: admin Security Level: low PHPIDS: disabled

Damn Vulnerable Web Application (DVWA) v1.10 \*Development

rairan@DESKTOP-U5PMQUG:/mmt/c/Users/RAIRAW/formacao-cybersec/modulo2-defesa-monitoramento/projeto-final/opcao1-hands-on/labs\$ docker exec kali_lab35 curl -s "http://waf_modsec:8080/vulnerabilities/sqli/?id=1'+OR+'1'='1'
+-8Submit-Submit" \
-H "Host: dvwa" \
-H "Cookie: PHPSESSID-test; security-low" \
-w "Status: %{http_code}\n"
Status: 382
rairan@DESKTOP-U5PNQUG:/mmt/c/Users/RAIRAN/formacao-cybersec/modulo2-defesa-monitoramento/projeto-final/opcao1-hands-on/labs\$ docker exec kali lab35 curl -s "http://waf_modsec:8080/vulnerabilities/xss_r/?name=%3Cscript%
3Ealert%28%22/SS%22%26%3C/script%3E" \
-H "Host: dvwa" \
-H "Cookie: security=low" \
-w "Status: %[http_code}\n"
Status: 302
rairan@DESKTOP-U5PNQUG:/mmt/c/Users/RAIRAN/formacao-cybersec/modulo2-defesa-monitoramento/projeto-final/opcao1-hands-on/labs\$ docker exec kali_lab35 curl -s "http://waf_modsec:8080/vulnerabilities/exec/?ip=127.0.0.1;cat
+/etc/passwd8submit-Submit" \
-H "Host: dvwa" \
-H "Cookie: security=low" \
-w "Status: %{http_code}\n"
Status: 302
rairan@DESKTOP-U5PMQUG:/mmt/c/Users/RAIRAN/formacao-cybersec/modulo2-defesa-monitoramento/projeto-final/opcao1-hands-on/labs\$ docker exec kali_lab35 curl -s "http://waf_modsec:8080/vulnerabilities/fi/?page=///e
tc/passwd" \
-H "Host: dvwa" \
-H "Cookie: security=low" \
-พ "Status: %(http_code)\ก"
Status: 302
rairan@DESKTOP-USPNQUG:/mmt/c/Users/RAIRAN/formacao-cybersec/modulo2-defesa-monitoramento/projeto-final/opcao1-hands-on/labs\$

```
Ksubmit=Submit" \
"Host: dvwa" \
"Cookie: PHPSESSID-test; security=low" \
"Status: %{http_code}\n"
           head><title>403 Forbidden</title></head
                    dy
yy>
ter><h1>403 Forbidden</h1></center>
<conter>nginx</center>
                    us: 403-

an@DESKTOP-U5PNQUG:/mnt/c/Users/RAI

ert%28%22X55%22%29%3C/script%3E" \

"Host: dwwa" \

"Cookie: security=low" \

"Status: %{http_code}\n"
                    d><title>403 Forbidden</title></head>
                    us: 403
an@DESKTOP-USPNQUG:/mnt/c,
c/passwd&Submit=Submit" \
"Host: dvwa" \
"Cookie: security=low" \
"Status: %{http_code}\n" \
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                  ay>
nter><h1>403 Forbidden</h1></center>
><center>nginx</center>
                                          TOP-U5PNOUG:/mnt/c/
             iran@DESKTOP-USHWQOG.,
/passwd" \
H "Host: dvwa" \
H "Cookie: security=low" \
w "Status: %{http_code}\n"
                    y>
ter><h1>403 Forbidden</h1></center>
<center>nginx</center>
  All Process of the Control of the Co
[ 2/09/2025 20:00:19 transaction.client_ip="192.168.35.11" transaction.client_port=46530 transaction.host_ip="192.168.35.30" transaction.host_port=8880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         48
```

```
transaction.messages

[
details*
accuracy=0** data="Matched Data: s&sos found within ARGS:id: 1' OR '1'='1'--- " file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-942-APPLICATION-ATTACK-SQLI.comf" lineNumber="46"
match="detected SQLi using libinjection." maturity="0* reference="v30,17" rev="" ruleId="942100" severity="2"

tqss="rapplication=multi", "language=multi", "platform=multi", "attack=sqli", "paranoia-level/1", "OWASP_CRS", "OWASP_CRS," (ToWASP_CRS," (ToWASP_CRS,") ver="OWASP_CRS,") ver="OWASP_CRS," (ToWASP_CRS,") ver="OWASP_CRS," (ToWASP_CRS,") ver="OWASP_CRS," (ToWASP_CRS,") ver="OWASP_CRS,") ver="OWASP_CRS," (ToWASP_CRS,") ver="OWASP_CRS,") ver="OWASP_CRS," (Value: 'S')" maturity="0" reference="" rev="" ruleId="949110" severity="0" tqss="["modsecurity", "anomaly-evaluation", "OWASP_CRS,"] ver="OWASP_CRS," (Value: 'S')" maturity="0" reference="" rev="" ruleId="949110" severity="0" tqss="["modsecurity", "anomaly-evaluation", "OWASP_CRS,"] ver="OWASP_CRS," (Value: 'S')" maturity="0" reference="" rev="" ruleId="949110" severity="0" tqss="" rev="" rev="" ruleId="949110" severity="0" tqss="" rev="" rev="" rev="" ruleId="949110" severity="0" tqss="" ruleId="949110" severity="0" tqss="" ruleId="949110" severity="0" tqss="" ruleId="949110" severity="0" ruleId="0" ruleId="0" ruleId="0" ruleId="0" ruleId="0" ruleId="0" ruleId="0" ruleId="0
```

```
22/09/2015 20:33:39 192.168.35.11 - [22/Sep/2025:23:33:39 +0000] "GET /vulnerabilities/sqli/?id=1'+0R+'1'='1'-++&Submit*Submit HTTP/1.1" 403 146 "-" "curl/8.15.0" "-"
          22/09/2025 20:33:39 • transaction.client ip="192.168.35.11" transaction.client port=45952 transaction.host ip="192.168.35.30" transaction.host port=8080
                                                                                                          transaction.messages
                                                                                                           u
details=
                                                                                                       actuals" date="Matched Data: s&sos found within ARGS:id: 1' OR '1'='1'-- " file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-942-APPLICATION-ATTACK-SQLI.comf" lineNumber="46" match="detected SQLI using libinjection." maturity="0" reference="v30,17" rev="" ruleId="942100" severity="2" severity="2" acqs="[angle=nulti", "platform=multi", "platform=multi", "attack-sqli", "paranoia-level/1", "OMASP_CRS', "OMASP_CRS/ATTACK-SQLI", "capec/1000/152/248/66"] ver="OMASP_CRS/A118.0" message="SQL Injection Attack Detected via libinjection"
                                                                                                       details=
accuracy="0" data="" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-949-BLOCKING-EVALUATION.conf" lineNumber="222"
accuracy="0" data="" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-949-BLOCKING-EVALUATION.conf" lineNumber="222"
amatch="Matched "Operator "Ge' with parameter 'S' against variable 'TX:BLOCKING_INDOUND_ANDMALY_SCORE' (Value: 'S')" amaturity="0" reference="" rev="" ruleid="949110" severity
tags=["modsecurity", "monealy-evaluation", "objects.gcs"] ver="OMASP_CRS/4.18.0"
message="Inbound Anomaly Score Exceeded (Total Score: S)"
                                                                                                                                                                                                                                                                                                                                                                                                   ucer.connector="ModSecurity-mgimx v1.0.4" transaction.producer.modsecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecurity="ModSecu
                                                                                                     transaction.producer.components-["0008P_CBS/A.18.0""] transaction.producer.comector-"ModSecurity-ngiax v1.0.4" transaction.producer.modsecurity-"ModSecurity v3.0.14 (Linux)" transaction.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.producer.action.prod
                                                                                                    192.168.35.11 - - [22/Sep/2025:23:03:18 +0000] "GET /vulnerobilities/xss_r/?name=%3Cscript%3Ealert%28%22XSS%22%29%3C/script%3E HTTP/1.1" 302 0 "-" "curl/8.15.0" "-"
     1 2/09/2025 20:03:18
                                                                                                       [
details=
d
                                                                                                          message="XSS Attack Detected via libinjection"
                                                                                                       details-
accuracy-"0' data-"Natched Data: (script> found within ARGS:name: (script>alert("XSS")//script> file-"/etc/modsecurity.d/owasp-crs/rules/REQUEST-941-APPLICATION-ATTACK-XSS.conf"
lineNumber="110" match="Matched "Operator "Rx' with parameter '(?i)//script?' against variable 'ARGS:name' (Value: 'cscript>alert("XSS")//script>') " maturity="0"
reference="00,8933,29tutf8toUnicode,trunDecodeUni,t:htmlEntityDecode,tripuecode,tremoveNulls' rev="" ruleid="941110" severity="2"
tags=["modsecurity", "application-multi", "language-multi", "platform-multi", "attack-xss", "xss-perf-disable", "paranoia-level/1", "OWASP_CRS", "OWASP_CRS", "OWASP_CRS", "Capec/1000/152/242")
ver="OWASP_CRS/4.18.0"
                                                                                                        message="XSS Filter - Category 1: Script Tag Vector"
                                                                                                          accuracy="0" data="Matched Data: <script found within ARGS:name: <script>alert("XSS")</script>" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-941-APPLICATION-ATTACK-XSS.conf
                                                                                                     lineHumber="265"
match="Match Operator" RR' with parameter '(1):(10-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90-A-Z_a-z]*(2:[^0-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4R
                                                                                                        details=
                                                                                                          accuracy="0" data="Matched Data: alert( found within ARGS:name: <script>alert("XSS")</script>" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-941-APPLICATION-ATTACK-XSS.conf
                                                                                                     ipt method detected"
                                                                                                       details=
accuracy=0° data=" file="/etc/modsecurity.d/owsp-crs/rules/REQUEST-949-BLOCKING-EVALUATION.conf" lineNumber="222"
match="Matched "Operator 'Ge' with parameter '5' against variable "IX:BLOCKING_INBOUND_ANDWALY_SCORE" (Value: '20' )" maturity="0" reference="" rev="" ruleId="949110" severity="0"
                                                                                              192.168.35.11 - - [22/Sep/2025:23:36:32 +0000] "GET /vulnerabilities/xss_r/?name~%3/Cscript%3Ealert%28%22XS%22%29%3C/script%3E HTTP/1.1" 403 146 "-" "curl/8.15.0"
        22/09/2025 20:36:32
                                                                                               transaction.client ip="192.168.35.11" transaction.client port=47020 transaction.host ip="192.168.35.30" transaction.host port=8080
                                                                                                           accuracy="0" data="Matched Data: XSS data found within ABGS:name: cscript>alert("XSS")c/script>" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-941-APPLICATION-ATTACK-XSS.conf"
linelumber="83" match-"detected XSS using libinjection." maturity="0" reference="v33,29t:utf8toUnicode,t:urlDecodeUni,t:htmlEntityDecode,t::sDecode,t:cssDecode,t:cssDecode,t:removeNulls" rev=""
ruleId="941100" severity="2"
tags=["modsecurity", "application-multi", "language-multi", "platform-multi", "attack-xss", "xss-perf-disable", "paramoia-level/1", "OWSP_CRS", "OWSP_CRS", "Capec/1000/152/242"]
                                                                                                                           "OWASP CRS/4.18.0"
                                                                                                           message="XSS Attack Detected via libinjection"
                                                                                                          detalis accuracy "0" data-"Matched Data: <script found within ARGS:name: <script>accuracy "0" data-"Matched Data: <script found within ARGS:name: <script>accuracy "0" data-"Matched Data: <script found within ARGS:name: <script>accuracy "0" data-"Matched "Operator "Rx' with parameter '(?1)*script[">1)*\{\s\s\}\?' against variable 'ARGS:name' (Value: '<script>alert("XSS")</script>') " maturity."0" reference="00,8933,791*utf8toUnicode,ftumlDetoIdentityDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ftisDecode,ft
                                                                                                          message="XSS Filter - Category 1: Script Tag Vector"
                                                                                                             cecasia-
accuracy="0" data="Matched Data: <script found within ARGS:name: <script>alert("XSS")</script>" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-941-APPLICATION-ATTACK-XSS.conf"
                                                                                                        Inelumber="205"

match="Matched "Operator 'Rx' with parameter '(?i)<[^0-9<A-Z_a-z]*(?i[^0-9<A-Z_a-z]*(?i[^0-9A-Z_a-z]*(?i[^0-9A-Z_a-z]*(?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-9A-Z_a-z]*?i[^0-
                                                                                                           message="NoScript XSS InjectionChecker: HTML Injection
                                                                                                                                                                     data="Matched Data: alert( found within ARGS:name: <script>alert("XSS")</script>" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-941-APPLICATION-ATTACK-XSS.conf
                                                                                                        linelumber="739"
match="Matched "Operator "Rx" with parameter '(?i)\b(?:eval[set(?:timeout[interval]]new[\s\x8b]+Function[a(?:lert[tob)]btoa|(?:promp|impor)t[con(?:firm|sole\.(?:log|dir))]fetch)[\s\x8b]"[\(\{ \) against variable "AAGS:name" (Value: 'scripts)alert("XSS")//scripts')"
maturity="0" reference="06,6v33,29t:htalEntityDecode,trjsDecode" rev="" ruleId="941390" severity="2"
tags:["modsecurity", "application-multi", "language-multi", "paramoia-level/1", "OMASP_CRS", "OMASP_CRS", "OMASP_CRS", "Capec/1000/152/242"]
ver="0MSP_CRS/4.18.0"
```

message=

```
transaction.client_ip="192.168.35.11" transaction.client_port=58580 transaction.host_ip="192.168.35.30" transaction.host_port=8080
      actuals—
acturacy=0" data="Matched Data: etc/passwd found within ARGS:ip: 127.0.0.1;cat /etc/passwd" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-930-APPLICATION-ATTACK-LFI.co
lineNumber="99" match="Matched Toperator 'PmFromFile' with parameter 'lfi-os-files.data' against variable 'ARGS:ip' (Value: '127.0.0.1;cat /etc/passwd')" maturity="0"
reference="o15,10v30,25t:utf8toUnicode;t:ur]DecodeUni;t:normalizePathWin" rev="" ruleId="930120" severity="2"
tags=["modsecurity", "application-multi", 'language-multi", 'platform-multi", "tatack-lfi", "paranoia-level/1", "OMASP_CRS", "OMASP_CRS/ATTACK-LFI", "capec/1000/255/153/126"]
ver="OWSP_CRS/4.18.0"
        message="05 File Access Attempt"
        , details=
accuracy="0" data="Matched Data: etc/passwd found within ARGS:ip: 127.0.0.1 cat/etc/passwd" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-932-APPLICATION-ATTACK-RCE.conf"
lineHumber="631" match="Matched "Operator "PmFromEile" with parameter "unix-shell.data' against variable "ARGS:ip' (Value: '127.0.0.1;cat /etc/passwd')" maturity="0"
reference="014,10v30,25t:cmdLine,t:normalizePath" reve=""ruleId="932160" severity="2"
tags=["modsecurity", "application-multi", "language-shell", "platform-unix", "attack-rce", "paranoia-level/1", "OMASP_CRS", "OMASP_CRS/ATTACK-RCE", "capec/1000/152/248/88"] ver="OWASP_CRS/4.18.0"
message="Remote Command Execution: Unix Shell Code Found"
      details accuracy="0" data="" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-949-BLOCKING-EVALUATION.conf" lineNumber="222"
match="Matched "Operator "Ge' with parameter "S' against variable "TX:BLOCKING_INBOUND_ANOWALY_SCORE" (Value: `10' )" maturity="0" reference="" rev="" ruleId="949110" severity="0" tags=["modsecurity", "anomaly-evaluation", "OMASP_CRS"] ver="OMASP_CRS"/18.0"
message="Inbound Anomaly Score Exceeded (Total Score: 10)"
  Transaction.producer.componentsa["OMASP_CBS/4.18.0""] transaction.producer.comnector="ModSecurity-nginx v1.0.4" transaction.producer.modsecurity="ModSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgodSecurity-mgo
22/89/2825 20:38:28 192.168.35.11 - - [22/Sep/2025:23:38:28 40000] "GET /vulnerabilities/exec/?ip=127.0.0.1;cat+/etc/passud&Submit-Submit HTTP/1.1" 403 146 "-" "curl/8.15.0" "-"
              22/09/2025 20:38:28 • transaction.client_ip="192.168.35.11" transaction.client_port=43746 transaction.host_ip="192.168.35.30" transaction.host_port=8080 transaction.messages=
                                                                                                                                              details accuracy "0" data-"Matched Data: etc/passwd found within ARGS:ip: 127.0.0.1;cat /etc/passwd" file-"/etc/modsecurity.d/owasp-crs/rules/REQUEST-930-APPLICATION-ATTACK-LFI.
Intellumber-"99" match-"Matched "Operator 'PmFromFile' with parameter 'lfi-os-files.data' against variable 'ARGS:ip' (Value: '127.0.0.1;cat /etc/passwd')" maturity="0"
reference-"015,10-30;25*tutf8toUnicode;t:ur/DecodeUni;t:normalizePathWin" rev-" ruleId-"930120" severity-"2"
tags=["modsecurity," application-multi", "language-multi", "platform-multi", "attack-lfi", "paramoia-level/1", "OMASP_CRS", "OMASP_CRS"
                                                                                                                                                message="OS File Access Attempt"
                                                                                                                                              details" data"Matched Data: etc/passwd found within ARGS:ip: 127.0.0.1 cat/etc/passwd" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-932-APPLICATION-ATTACK-RCE.conf"
lineNumber="631" match="Matched "Operator 'PmFromFile' with parameter 'unix-shell.data' against variable 'ARGS:ip' (Value: '127.0.0.1)cat /etc/passwd')" maturity="0"
reference="014,10939,251:cmd.ine,t:normalizePath" rev=" ruleId="932160" severity="2"
tags=["modsecurity", "application-multi", "language-shell." "platform-unix", "attack-rce", "paramoia-level/1", "OWASP_CRS", "OWASP_CRS/ATTACK-RCE", "capec/1000/152/248/88"] ver="OWASP_CRS/4.18.0"
message="Remote Command Execution: Unix Shell Code Found"
                                                                                                                                                details—
accuracy="0" data="" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-940-BLOCKING-EVALUATION.conf" lineNumber="222"
match="Matched "Operator "Ge" with parameter "S' against variable "TX:BLOCKING_INBOUND_ANOMALY_SCORE" (Value: "10")" maturity="0" reference="" rev="" ruleId="949110" sc
tages=["modsecurity", "monaly_evaluation", "MOMSP_CRS/4.18.0"
message="Inbound Anomaly Score Exceeded (Total Score: 10)"
                                                                                                                                              transaction.producer.components=["OMASP_CR5/4.18.0""] transaction.producer.connector="ModSecurity-nginx v1.0.4" transaction.producer.amdsecurity="ModSecurity-10.0.12" transaction.producer.security="Down" transaction.request.headers.coolie="security=Down" transaction.request.headers.coolie="security=Down" transaction.request.headers.coolie="security=Down" transaction.request.headers.coolie="security=Down" transaction.request.headers.toolie="security=Down" transaction.request.headers.toolie="security=Down" transaction.request.headers.toolie="security=Down" transaction.request.headers.toolie="security=Down" transaction.reposes.body="chievest" transaction.reposes.body="chievest" chievest" chievest coolie="security=Down" transaction.reposes.body="chievest" chievest" chievest coolie="security=Down" transaction.respons.ehaders.coolie="security=Down" transaction.respon
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     onse.headers.Date="Mon, 22 Sep 2025 23:38:28 GMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     transaction.time stamp="Mon Sep 22 23:38:28 2025"
                                                                                                                                        192.168.35.11 - - [22/Sep/2025:23:13:27 +0000] "GET /vulnerabilities/fi/?page=../../../etc/passwd HTTP/1.1" 302 0 "-" "curl/8.15.0" "-"
            22/09/2025 20:13:27
                                                                                                                                            transaction.client_ip="192.168.35.11" transaction.client_port=56258 transaction.host_ip="192.168.35.30" transaction.host_port=8080 transaction.messages=
                                                                                                                                          Details=

accuracy="0" dsta="Matched Data: /../ found within ARGS:page: ../../../etc/passwd" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-930-APPLICATION-ATTACK-LFI.conf" lin match="Matched "Operator" Rx" with parameter '(2)(2;1/\sc] [K(2)2(2;15)(2;24)[sc](2;125)e](0%254)) [MS6][Sc](2;00K(2;120)[e](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc](2)[Sc]
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accuracy-"0" data-"Matched Data: /../ found within REQUEST_URI_RAN: /vulnerabilities/fi/?page-./../../etc/passwd"
file="retc/modscourity_d/owasp-crs/rules/REQUEST_930-APRICATION-ATIACK-LFL.conf" lineNumber="68"
match="Matched "Operator "Rx' with parameter "(?:(?:^n[[x5c/s]]\.(2,3)[x5c/s]][\x5c/s]]\.(2,3)[\x5c/s])' against variable "REQUEST_URI_RAN" (Value: '/vulnerabilities/fi/?
page-./../.../..tct/passwd')"
maturity="0" reference="028,4v4,48" rev="" ruleid="930110" severity="2"
maturity="0" ruleid="0.500110" severity="0.500110" severity="0.500110" severity="0.500110" severity="0.500110" se
                                                                                                                                            details:
accuracy="0" data="Natched Data: ../ found within ARGS:page: ../.../.../etc/passad" file="/etc/modsecurity.d/owasp-crs/rules/EEQUEST-930-APPLICATION-ATTACK-LFL.conf" lineHumber="match="Matched "Operator "Rx' with parameter "(?:(2:([\x5c/s])\.(2,3)\[\x5c/s]\][\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,3)\[\x5c/s]\]\.(2,
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                                                                                                                                            metalis=
accuracy="0" data="Matched Data: etc/passud found within ARGS:page: ../../../etc/passud" file="/etc/modsecurity.d/owasp-crs/rules/REQUEST-930-APPLICATION-ATTACK-LFI.conf"
lineHumber="09" match="Matched Toperator Temformalia" with parameter 'lfi-os-files.data' against variable 'ARGS:page' (Value: '../../../etc/passud') maturity="0" m
                                                                                                                                          doctails—
accuracy—"0" data—"Natched Data: etc/passud found within ARGS:page: ./../../etc/passud" file—"/etc/modsecurity.d/owasp-crs/rules/REQUEST-932-APPLICATION.ATTACK-REC.conf"
lineHumber="633" match="Natched "Operator "Parcomfile" with parameter "unix-shell.data" against variable 'ARGS:page' (Value: `./../../etc/passud')" maturity="0"
reference="032,1003/22tricodiline; trionnalizefabeth" rever" "united="932160" severity="2"
tags=["modsecurity", "application-multi", "language-shell", "platform-unix", "attack-rce", "paramoia-level/1", "OMASP_CRS", "OMASP_CRS/ATTACK-RCE", "capec/1000/152/248/88"] ver="0MASP_CRS/4.18.0"
message="Renot Command Execution Unix Shell Code Found"
```

4R