



GOBIERNO  
DE ESPAÑA

VICEPRESIDENCIA  
TERCERA DEL GOBIERNO  
MINISTERIO  
DE ASUNTOS ECONÓMICOS  
Y TRANSFORMACIÓN DIGITAL

SECRETARÍA DE ESTADO  
DE DIGITALIZACIÓN  
E INTELIGENCIA ARTIFICIAL

# Webinar: Apache hardening

## Exercises



TU AYUDA EN  
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## 1. PRACTICAL EXERCISES

This practical exercise consists in identifying, through the log provided "modsec\_audit.log", different attacks made to our "dummy" application in the Apache web server. The requests that can be seen are the result of having "ModSecurity" active. We will identify the types of attacks and warnings that we can find by answering some questions.

Open the log file with any text editor.

- **Question 1:** Could you indicate what type of attack is carried out on this fragment of the log file?

```
--a19b5a47-B--  
GET /index.html?param?=../../../../../etc/passwd HTTP/1.1  
Host: 192.168.1.5:8888  
User-Agent: curl/7.65.1  
Accept: */*
```

*Frame 1 Log file fragment (I)*

By making an association with the type of rule that fits this type of attack, ModSecurity generates a series of informative blocks in the log.

- **Question 2:** Can you identify the lines where these blocks appear?
- **Question 3:** In this next second case, could you indicate what type of attack is carried out on this fragment of the log file?

```
--97d8ad19-B--  
GET  
/index.html?param=&mfMo%3D6544%20AND%201%3D1%20UNION%20ALL%20SELECT%20  
1%2CNULL%2C%27%3Cscript%3Ealert%28%22XSS%22%29%3C%2Fscript%3E%27%2Ctab  
le_name%20FROM%20information_schema.tables%20WHERE%20%3E1--  
%2F%2A%2A%2F%3B%20EXEC%20xp_cmdshell%28%27cat%20..%2F..%2Fetc%2Fp  
asswd%27%29%23 HTTP/1.1  
Accept-Encoding: gzip,deflate  
Host: 192.168.1.5:8888  
Accept: */*  
User-Agent: sqlmap/1.1.12#stable (http://sqlmap.org)  
Connection: close  
Cache-Control: no-cache
```

*Frame 2 Log file fragment (II)*

By making an association with the type of rule that fits this type of attack, ModSecurity generates a series of informative blocks in the log.

- **Question 2:** Can you identify the lines where these blocks appear?

- **Question 5:** What type of REQUEST-NUM-ATTACK\_TYPE\_\*\*\*.conf is applied when detecting the previous attack?

