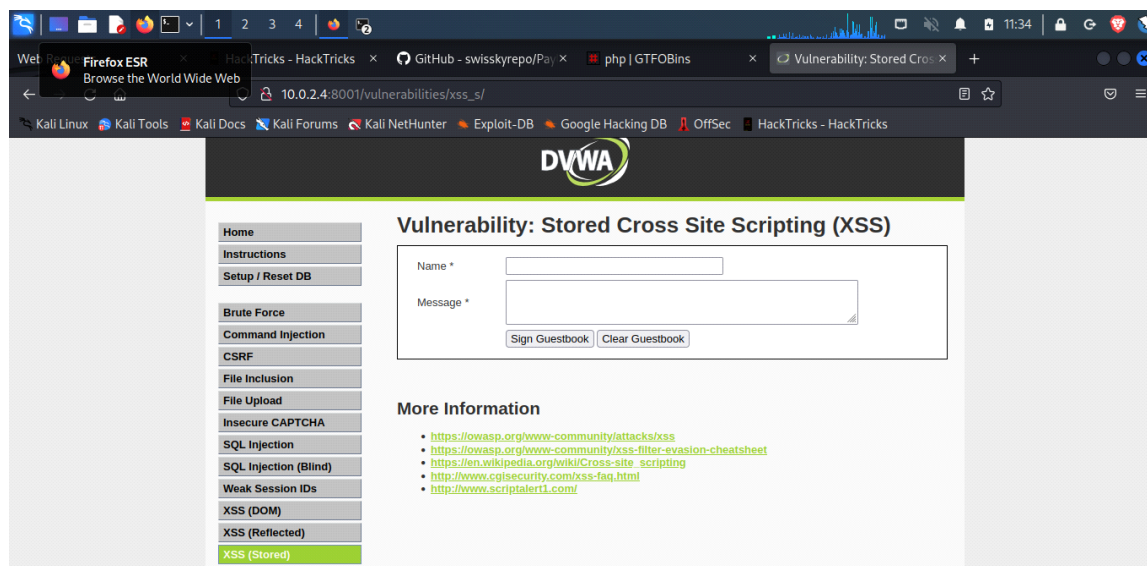
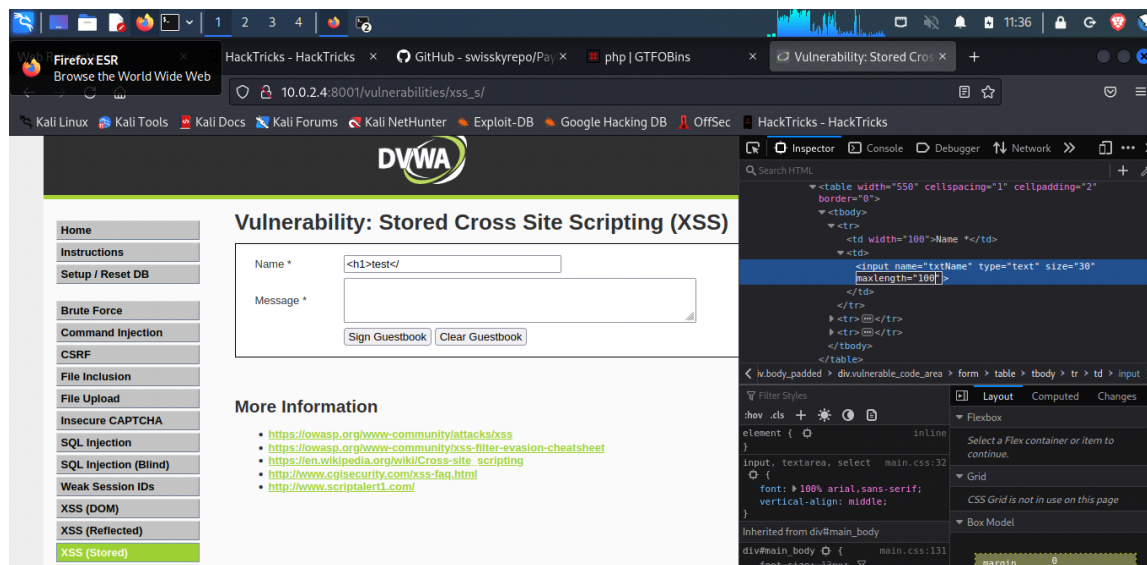


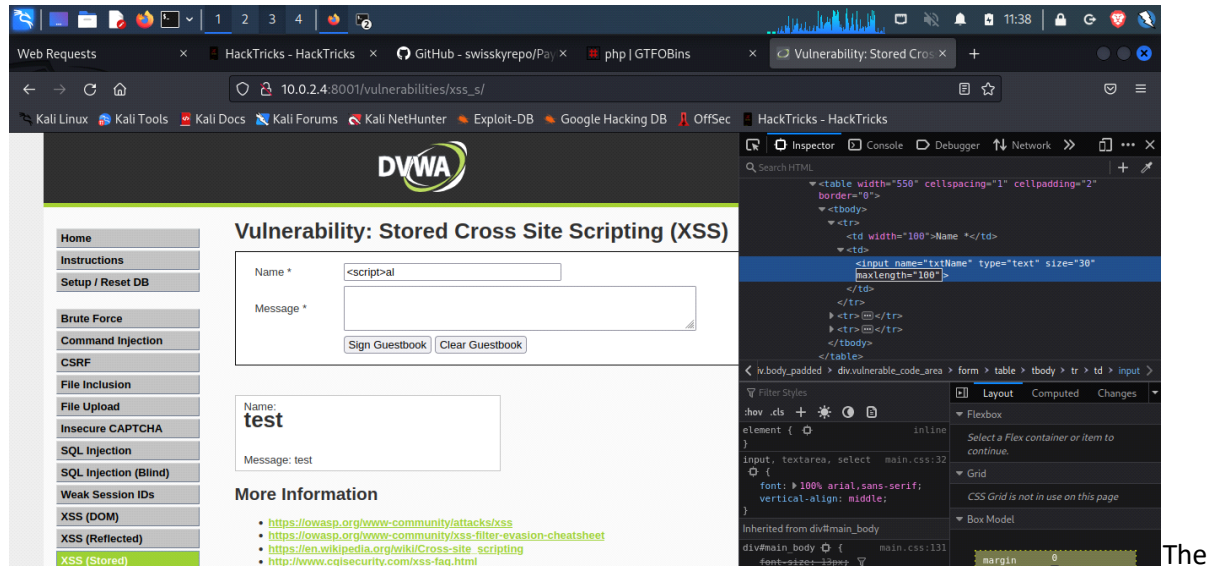
Stored or persistent cross side scripting is when an attacker passes malicious code through a vulnerable website to be saved on the server. When other users query the website they will be served the infected files.



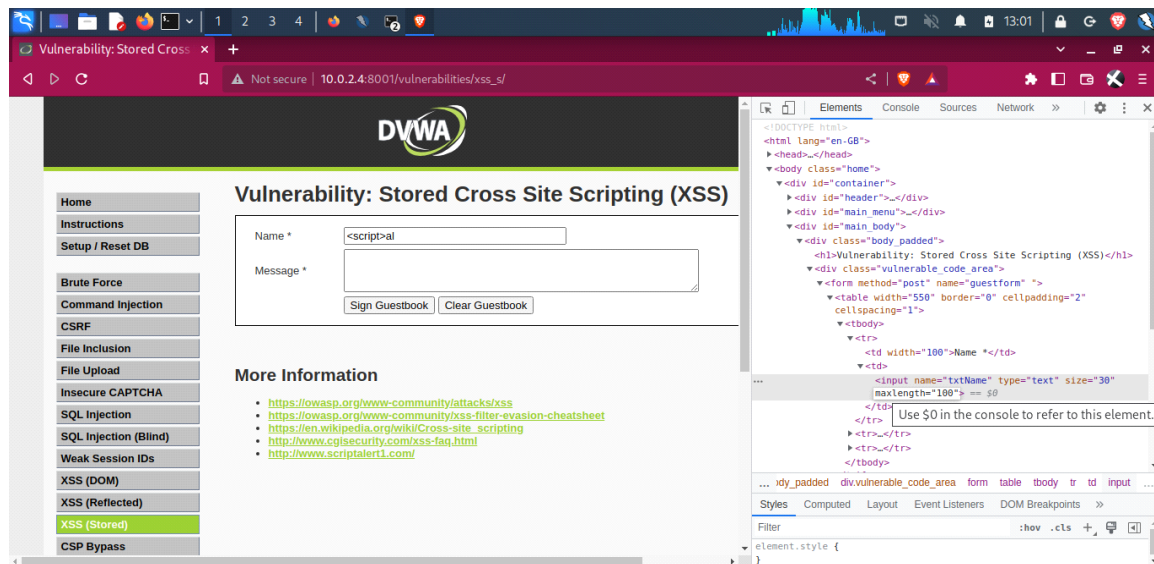
In this example there are two input areas and two buttons. one of these buttons will save the name and message to the 'guestbook'.



I attempt with a preliminary html tag - but find the designer limit the number of characters used for the name and message. The vulnerable website allows client side of the browsers to arrange things, so I change the number of characters and proceed.

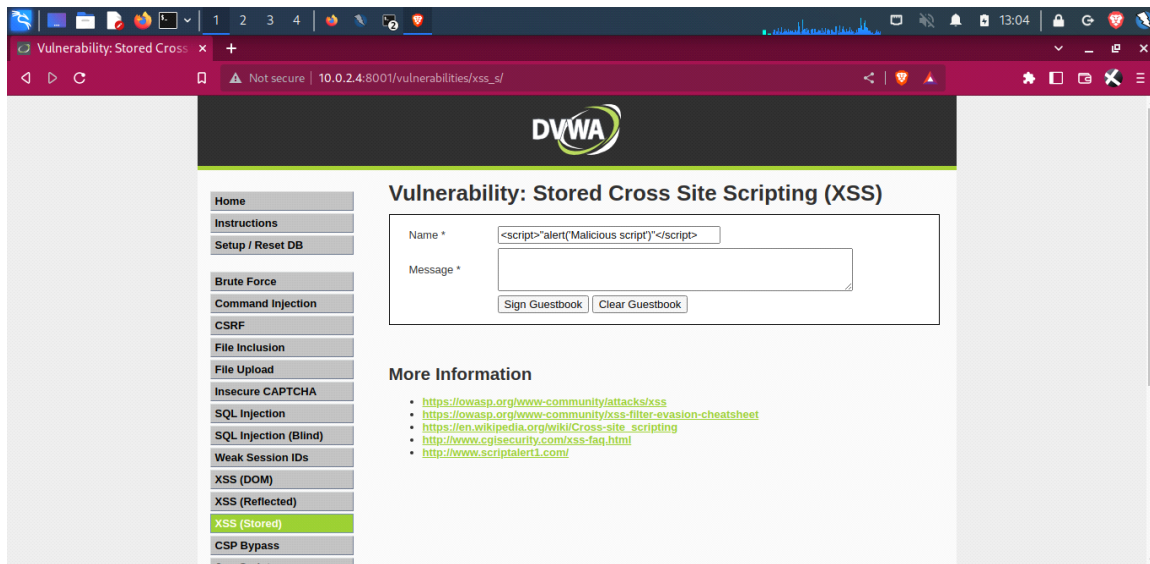


html tag passes fine

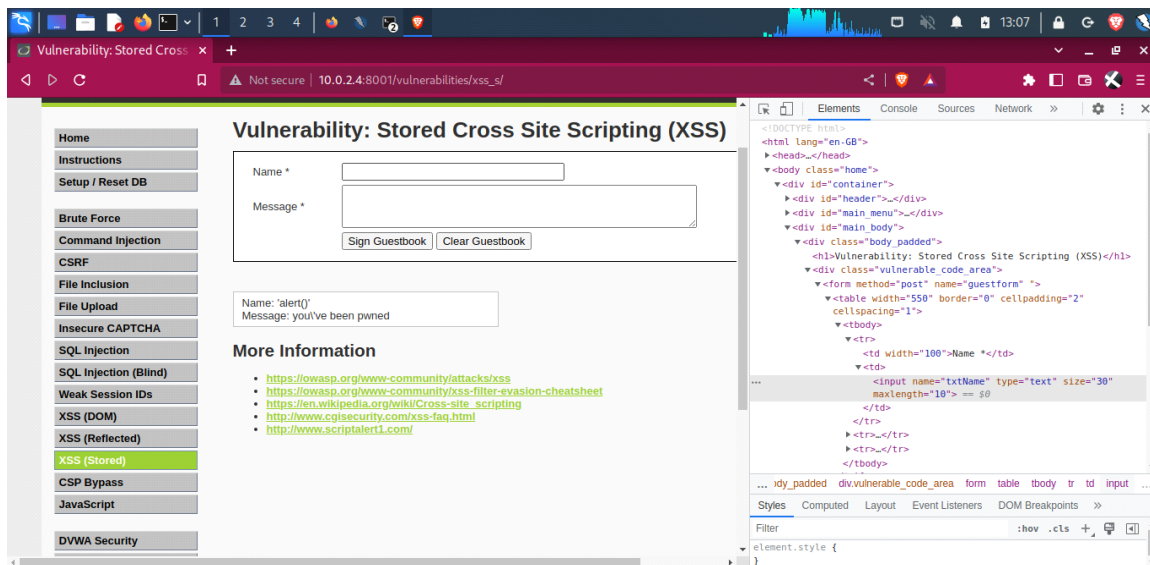


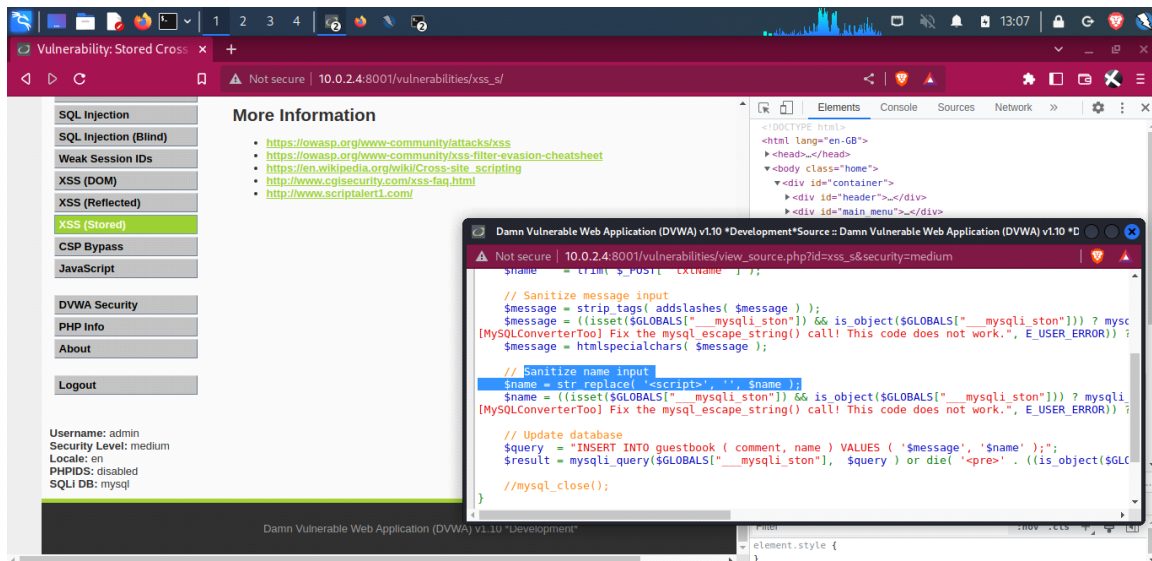
the number must be changed again as the page reloads

I fill in with a malicious script

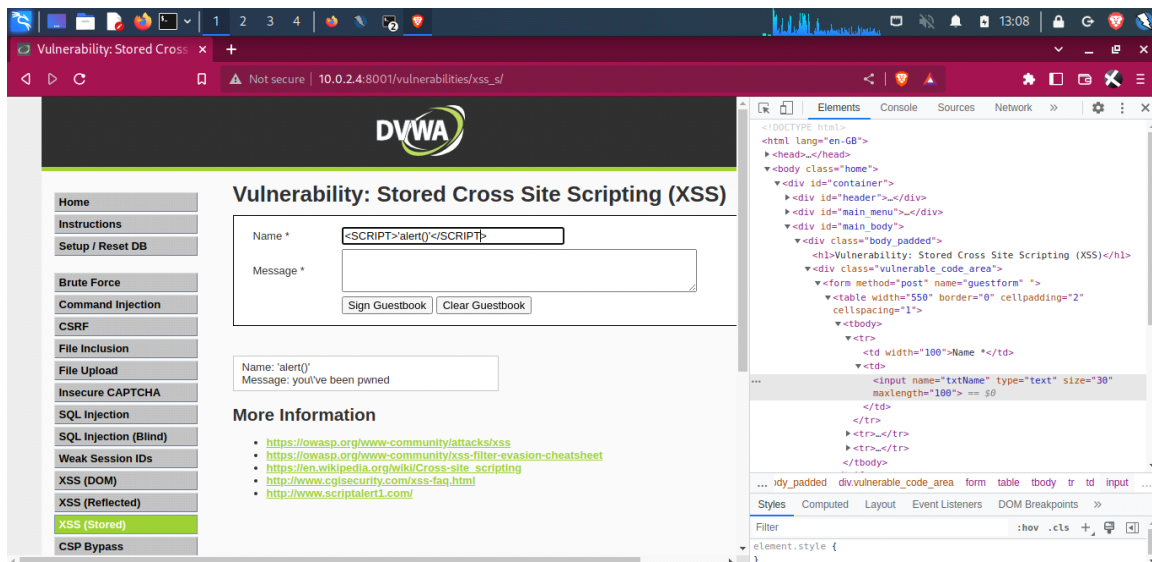


the word script seems to be filtered

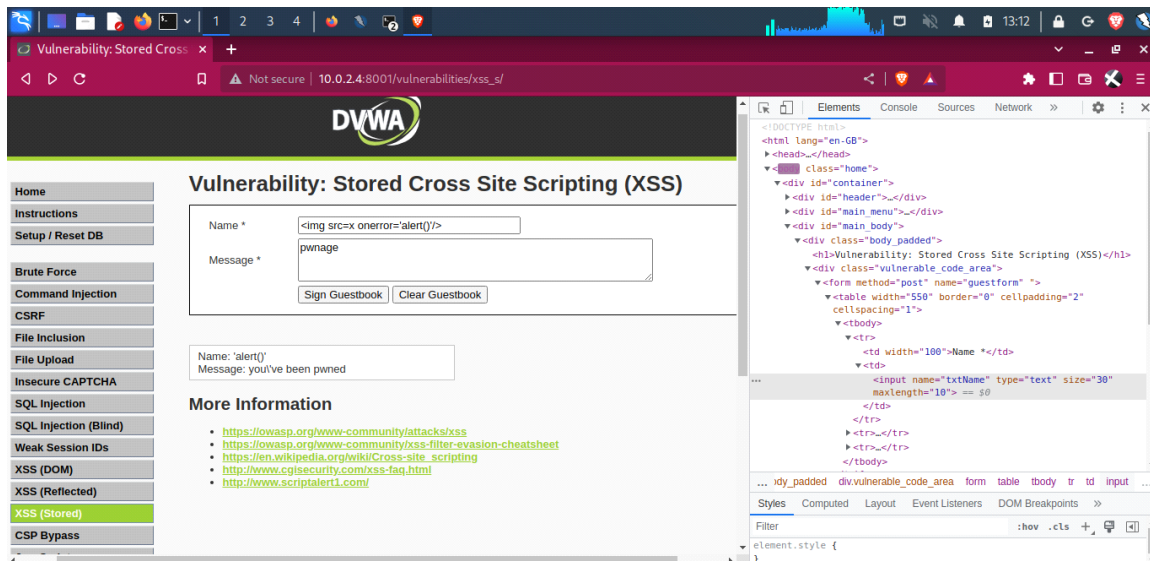




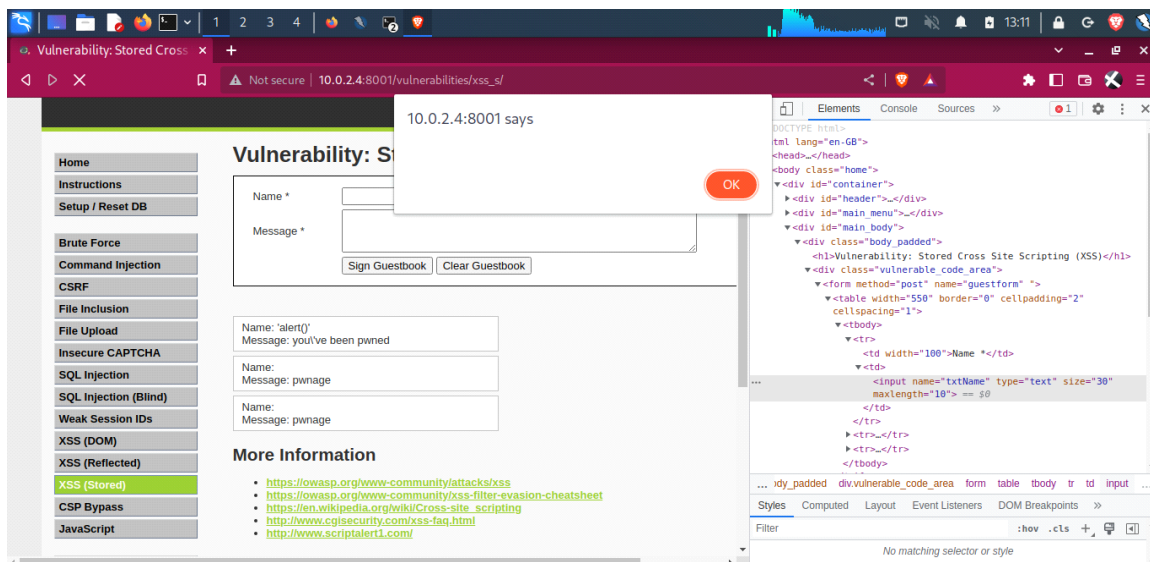
and confirmed



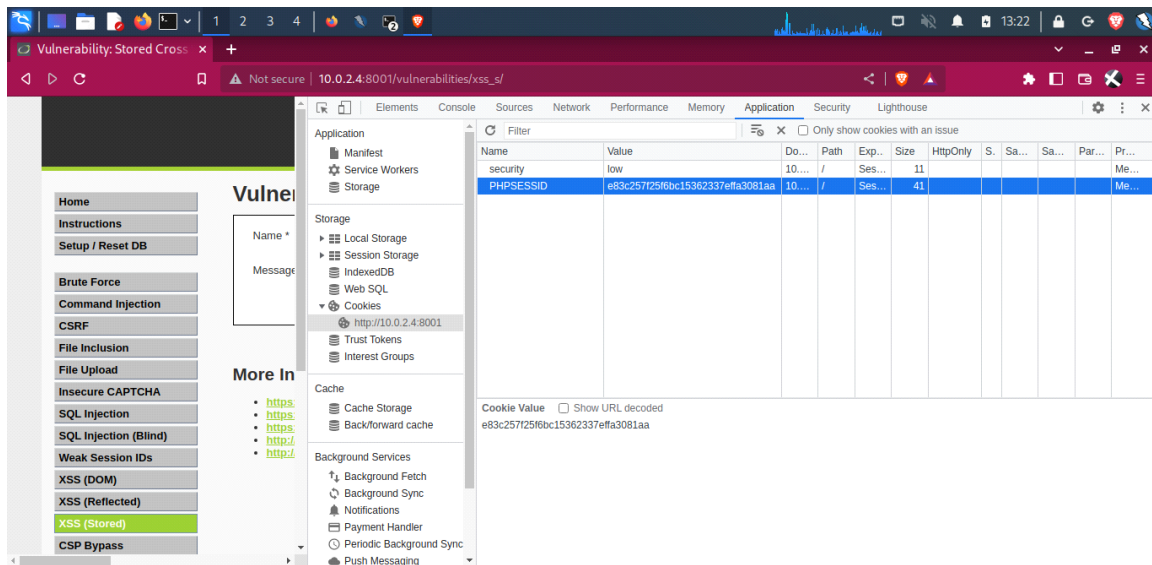
so I attempt writing them in uppercase but it doesn't work either



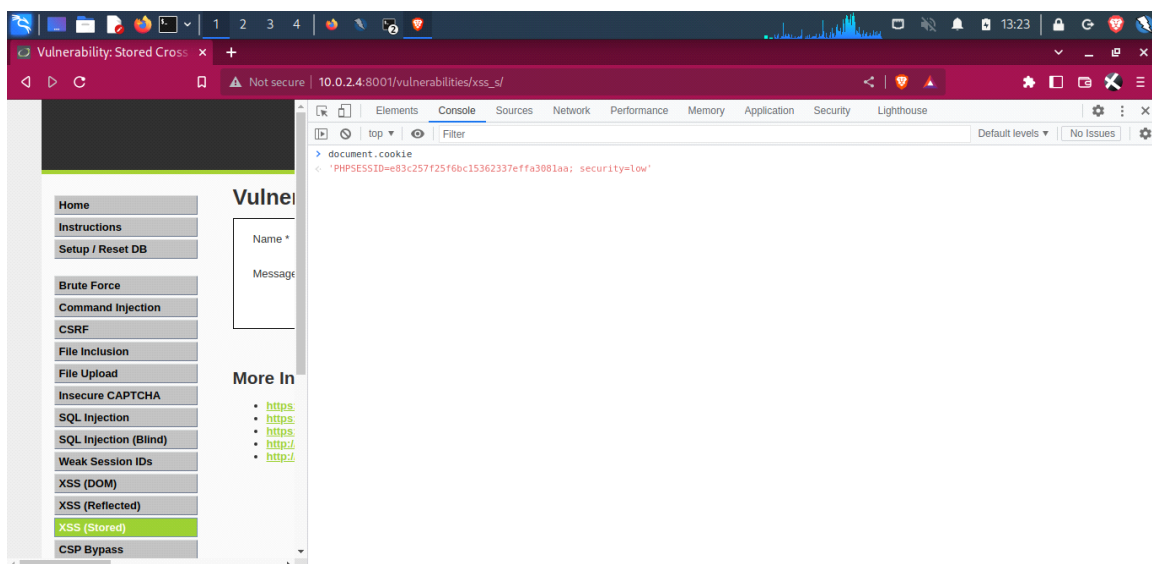
I try using and img src maneuver. If i can put an img src that points to an impossibility, then the action will throw an error, and I can dictate what happens on the error, thus bypassing the filter



it is successful. Now that this malicious message is now saved in the 'guest book' of this website, we can do something more devious.

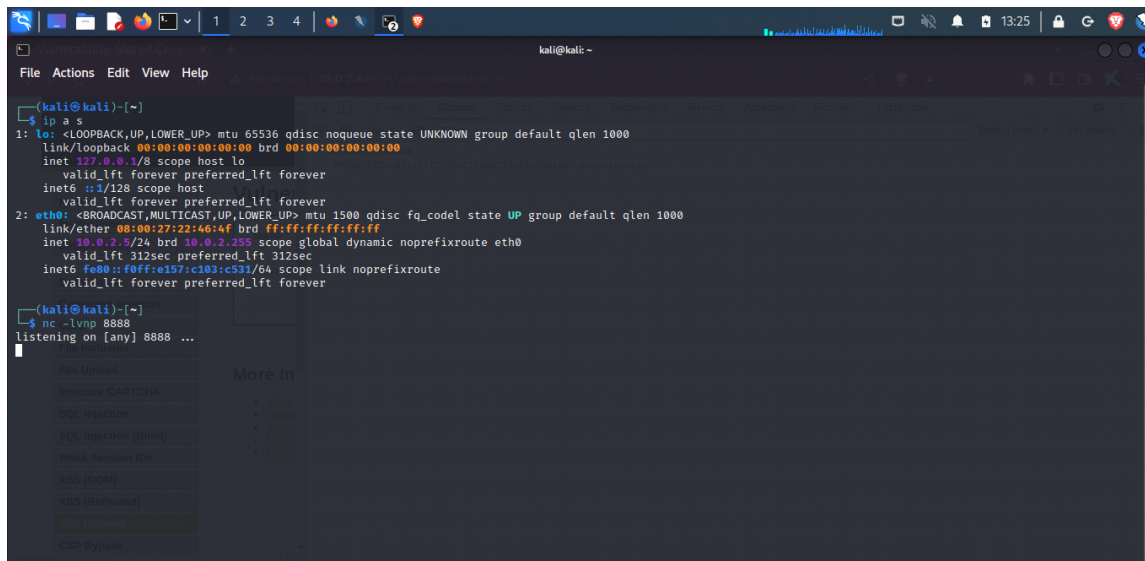


Under the inspector > application my phpssid cookie is listed. if the 'httponly' column is unchecked, it can interact with javascript.



under console > typing document.cookie will display this more readily.

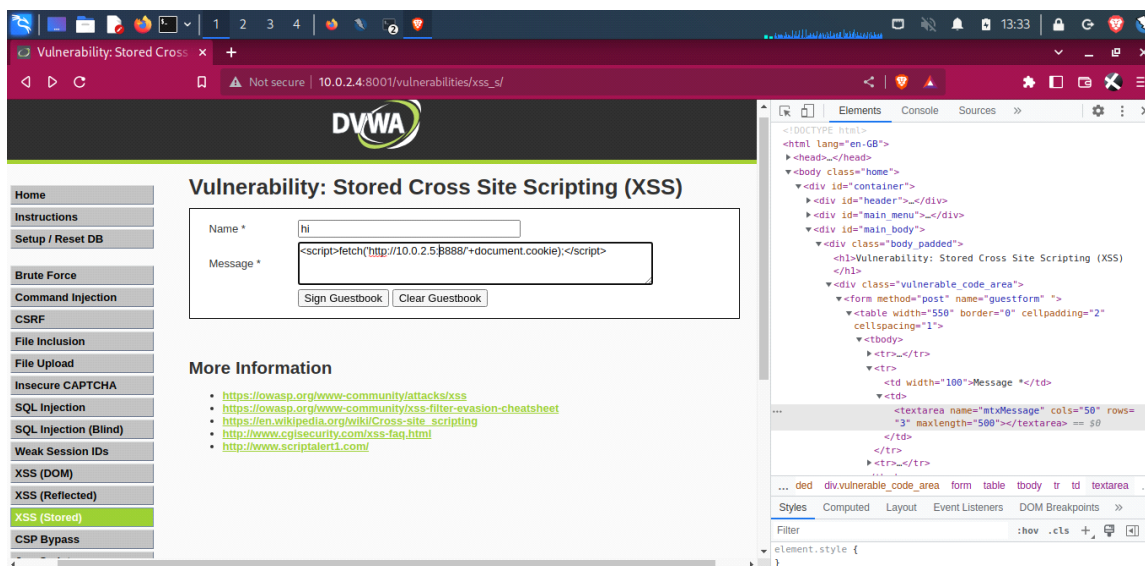




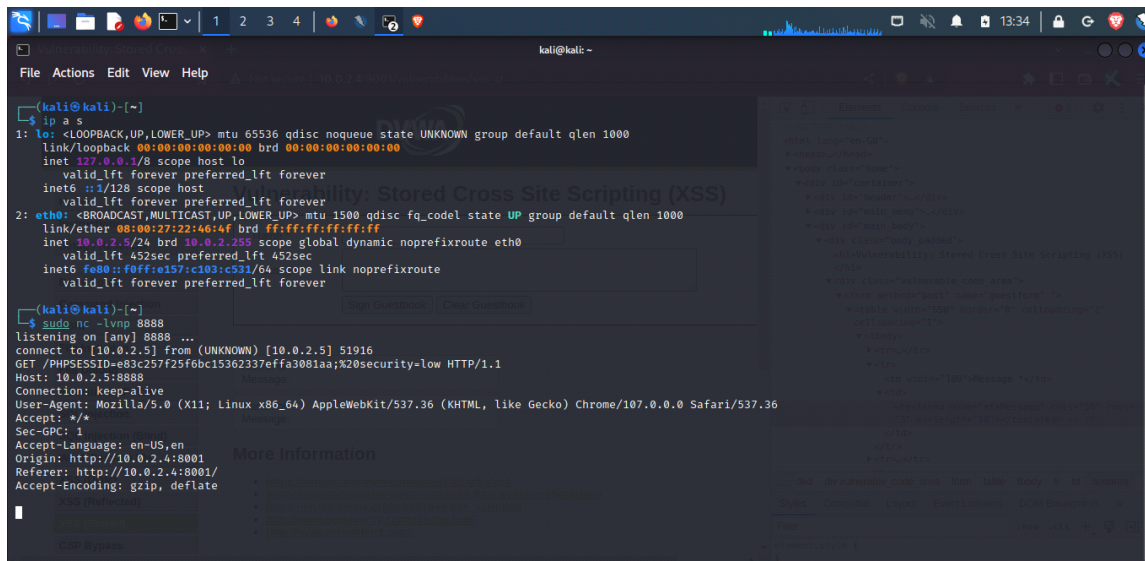
```
(kali@kali)-[~]
$ ip a s
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:00:27:22:46:4f brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute eth0
        valid_lft 312sec preferred_lft 312sec
    inet6 fe80::f0ff:0157:c103:c531/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

(kali@kali)-[~]
$ nc -lvp 8888
listening on [any] 8888 ...
```

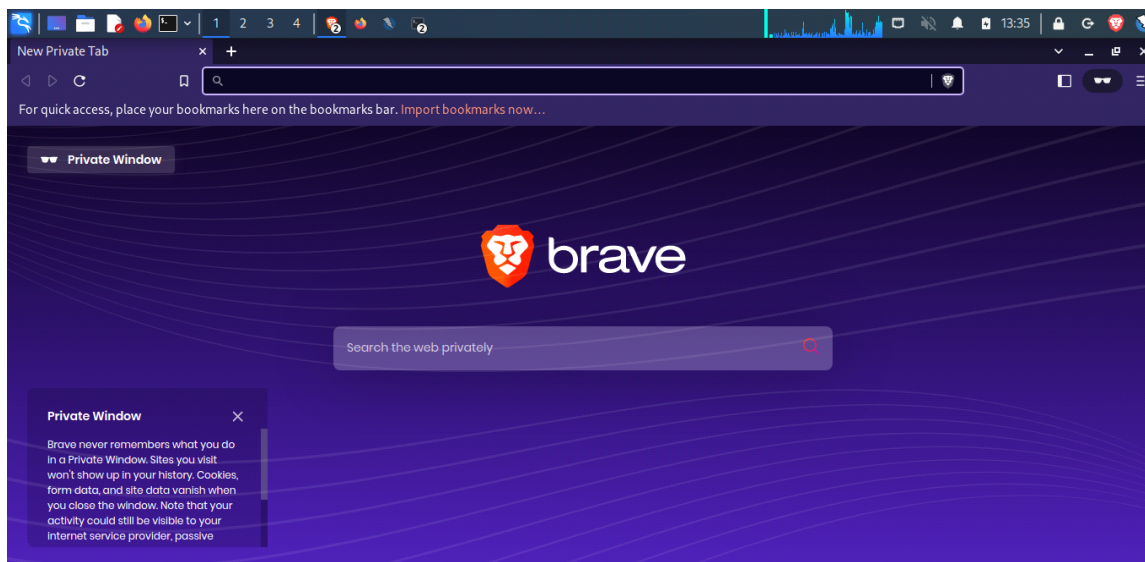
I set up a netcat listener in on the command line



I use fetch as a get request to send the document.cookie to the ip/port of the netcat listener



and here it's displayed that the cookie is sent

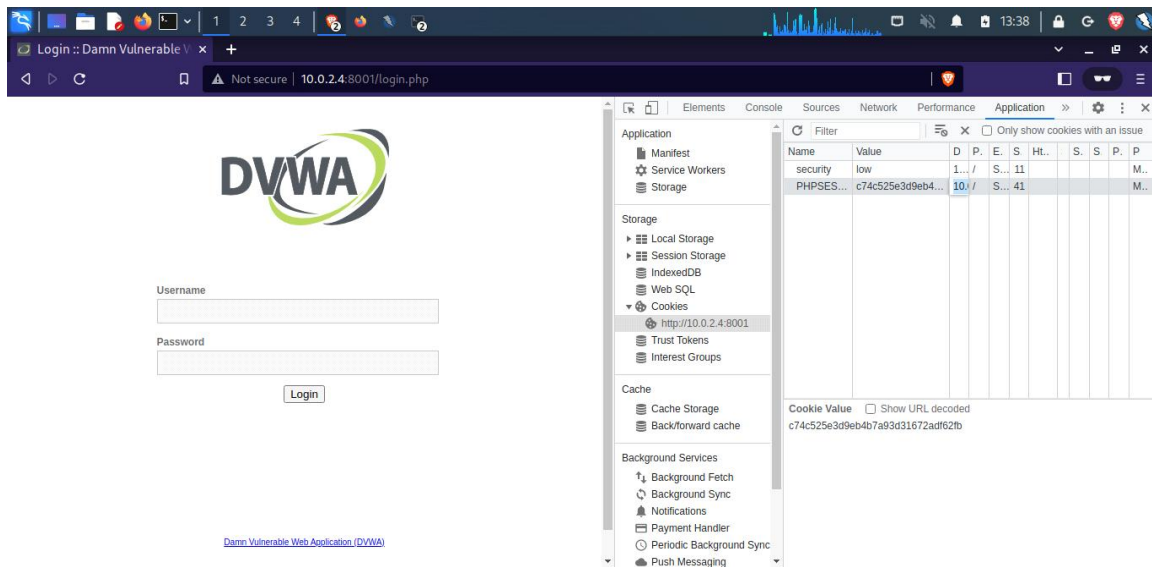


I open a private browser that has no association with the website at all

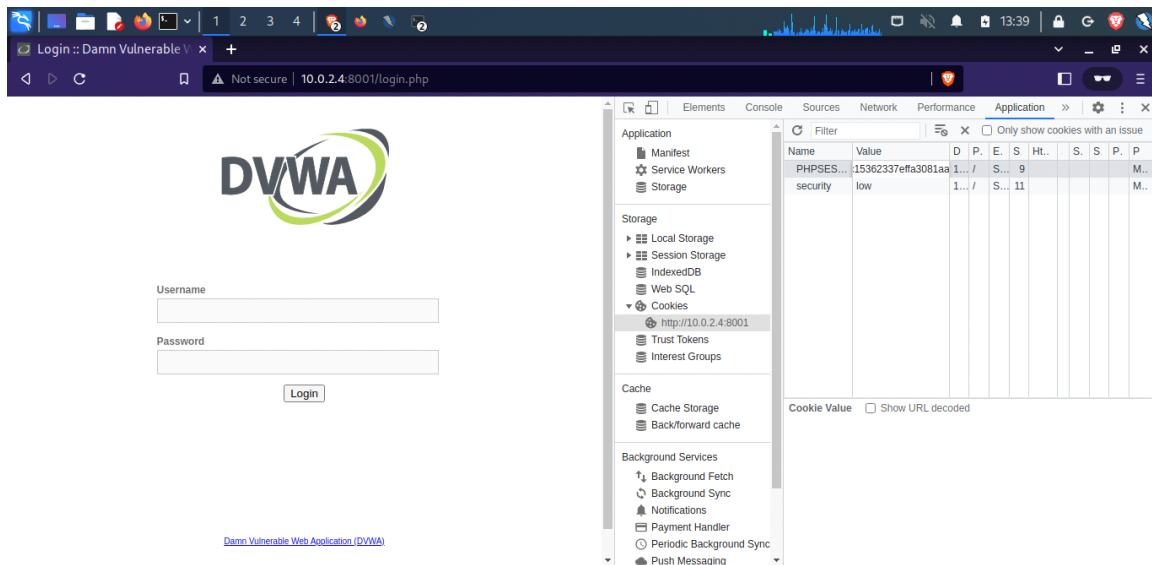




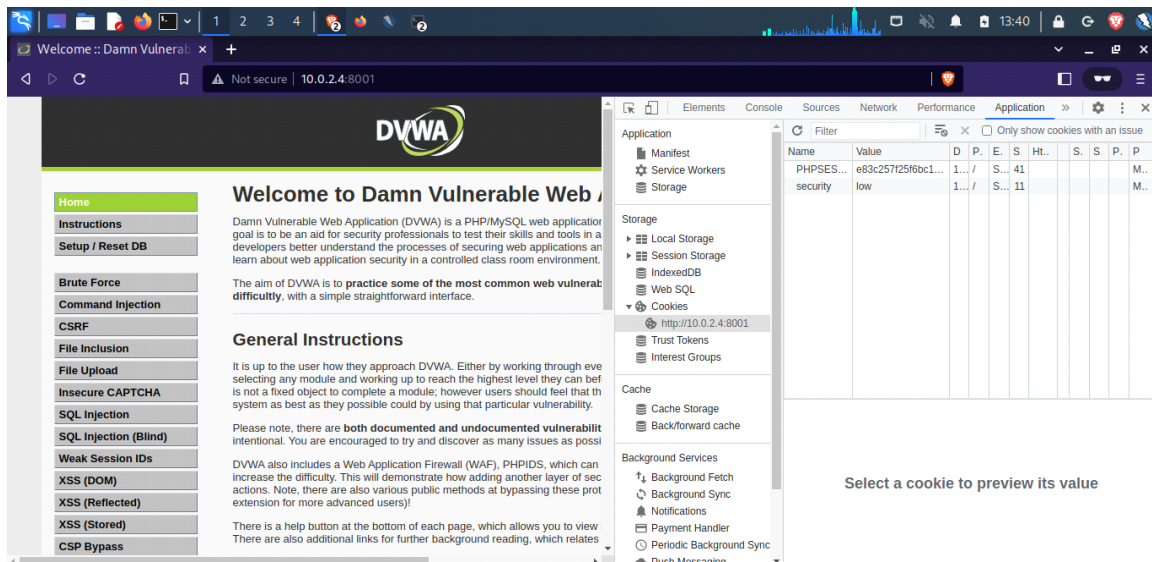
navigate to the website



open the inspector>application



erase the original cookie and place it with the stolen cookie



It allows me to pass through as administrator.

This malicious script will be saved in the 'guest book' of that infected website, and as long as there is a netcat listener open, the attacker will receive the cookie of every user that views it.