

A

Lab: Manipulating the WebSocket handshake to exploit vulnerabilities - ZAP write up

In this lab we will try to trigger an XSS on the target website.

To do so the live chat feature will be exploited.

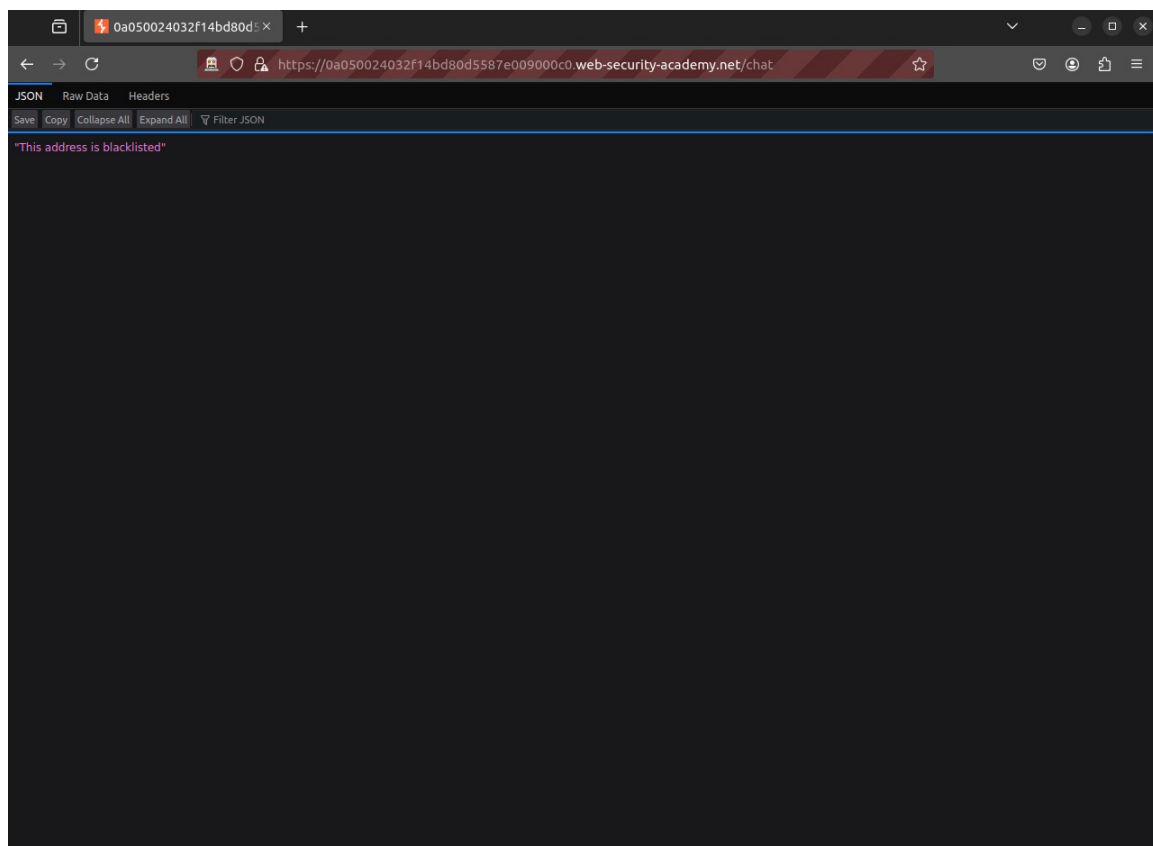
After some chatting with Hal Pline, the following payload is injected

```
<img src=1 onerror=alert(1)>
```

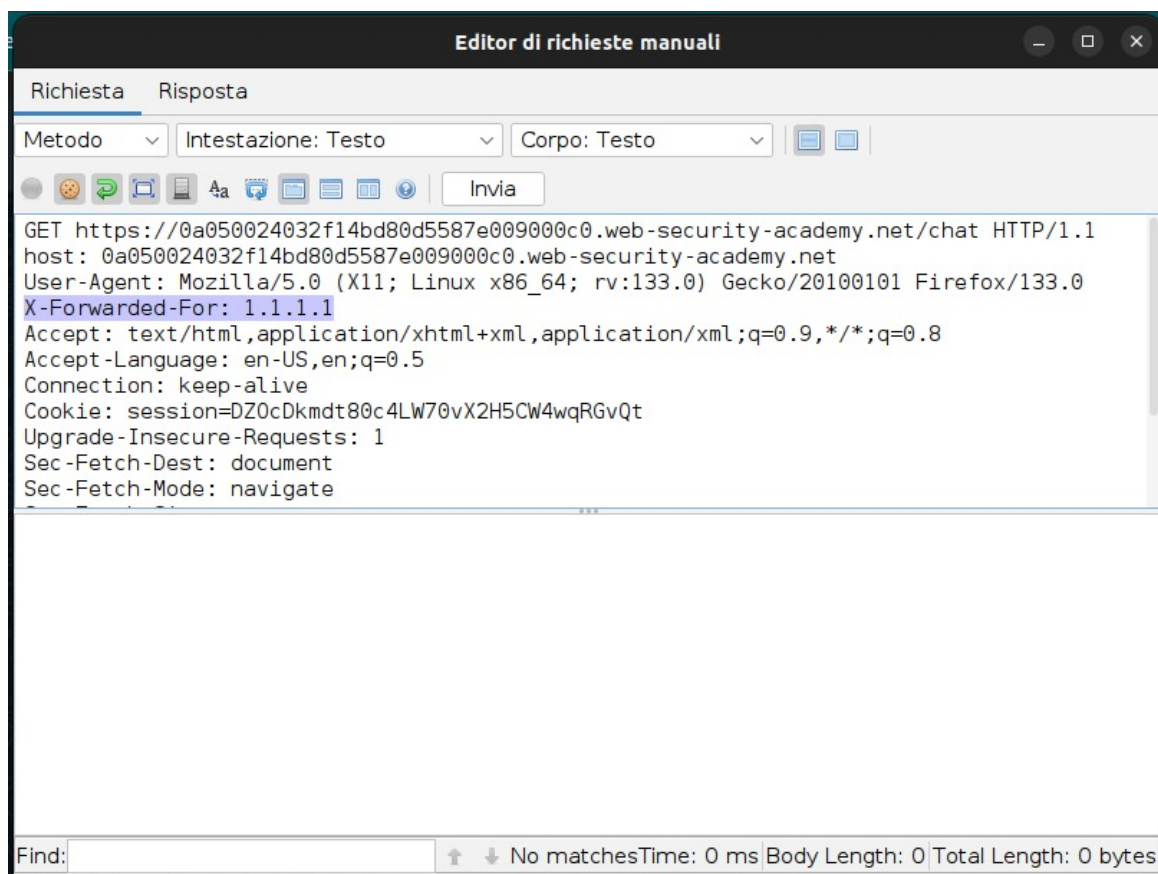
After this payload the websocket connection is closed and a message is sent by the server reporting:

```
{"error": "Attack detected: Event handler"}
```

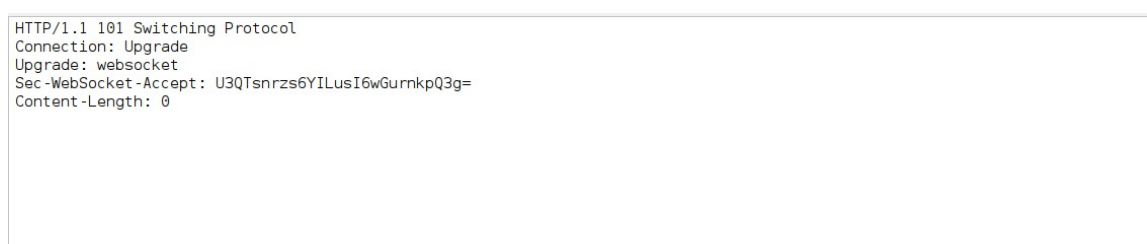
When refreshing the page the following will be shown



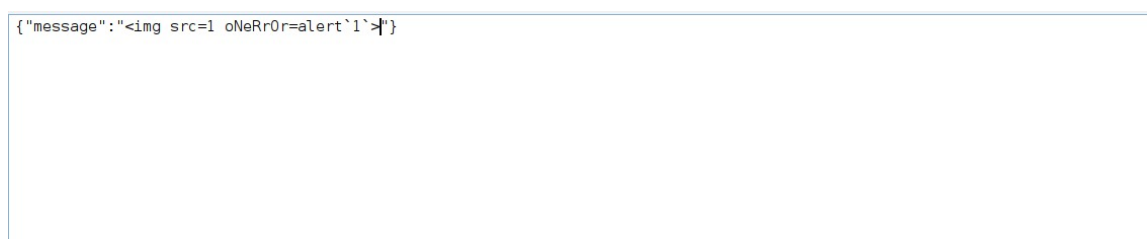
With zap now we add a new header to the handshake request:



Now in zap we can confirm that the websocket connection has been restored



Now it is possible to chat again with Hal Pline, after some more chatting a new payload is injected, this time using zap



And on the target website we can notice that the payload has been accepted and the Lab is solved.

