

XSS Attack Lab Report — Elgg

Course / Lab: SEED Labs — Cross-Site Scripting Attack Lab (Elgg)

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User accounts provided by lab:

- *Admin: admin / seedelgg*
- *Alice: alice / seedalice*
- *Boby: boby / seedboby*
- *Charlie: charlie / seedcharlie*
- *Samy: samy / seedsamy*

Task 1 Posting a Malicious Message to Display an Alert Window

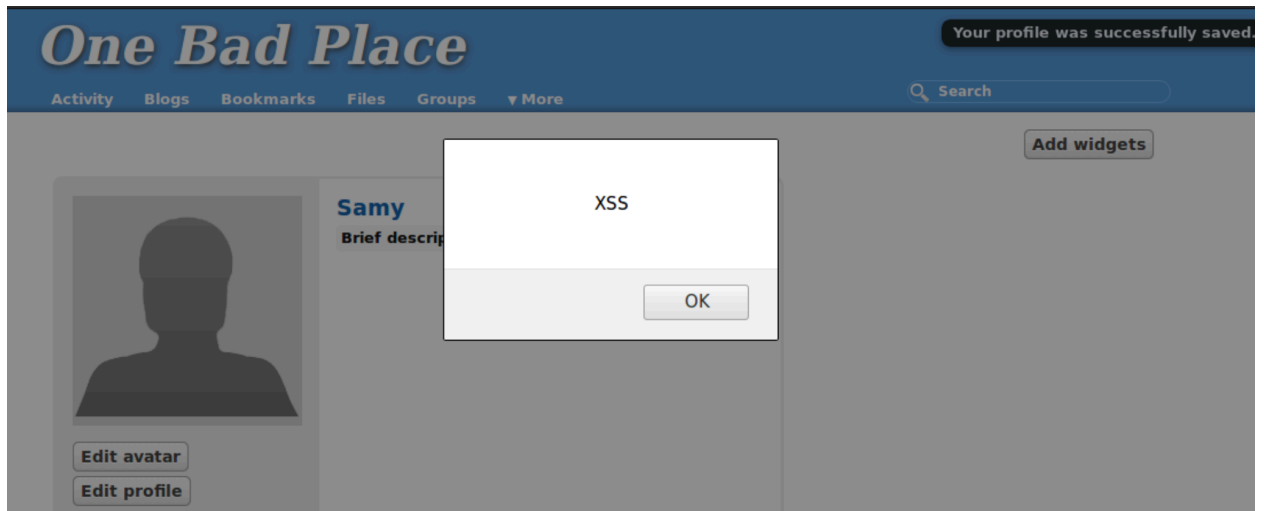
Goal: Insert a short XSS payload into my Elgg profile so that when someone views my profile, an alert window appears.

Payload used:

```
<script>alert('XSS');</script>
```

Observed result: A JavaScript alert box with the text XSS appeared when loading the profile page.

Screenshots:



Explanation: Because input filtering was disabled in this instance of Elgg, the raw `<script>` tag stored in the profile was rendered into the profile page and executed by the victim's browser.

Task 2 Posting a Malicious Message to Display Cookies

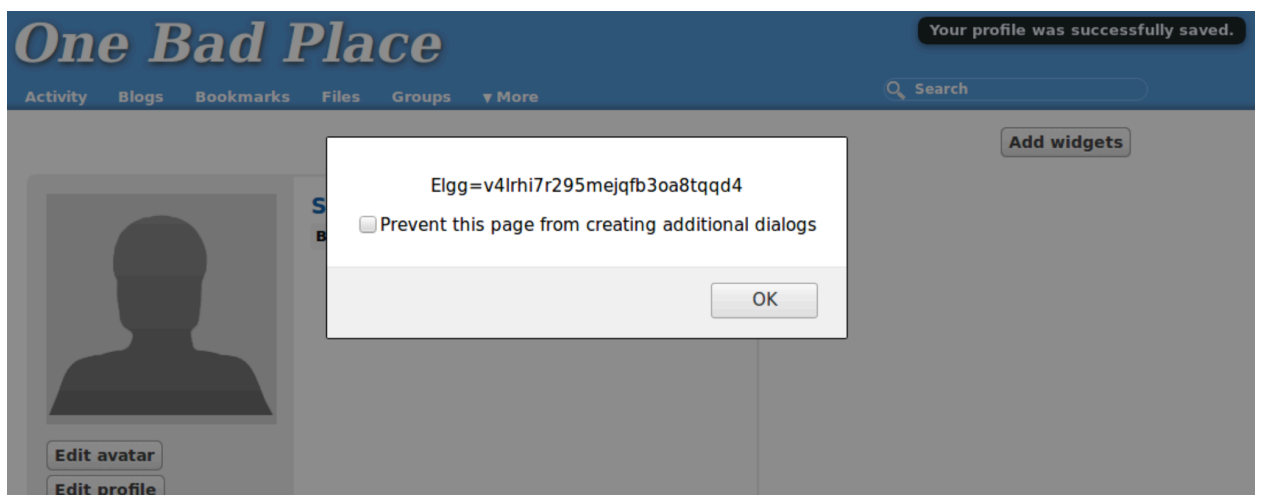
Goal: Modify the injected script so that the viewer's cookies are shown in an alert box.

Payload used:

```
<script>alert(document.cookie);</script>
```

Observed result: The victim browser displayed an alert popup containing the session cookie.

Screenshots:



Explanation: document.cookie evaluated in the attacker's script returns the cookies associated with the origin www.xsslabelgg.com. The script delivered these cookies to the victim's browser which then displayed them in the alert box (only visible to the victim).

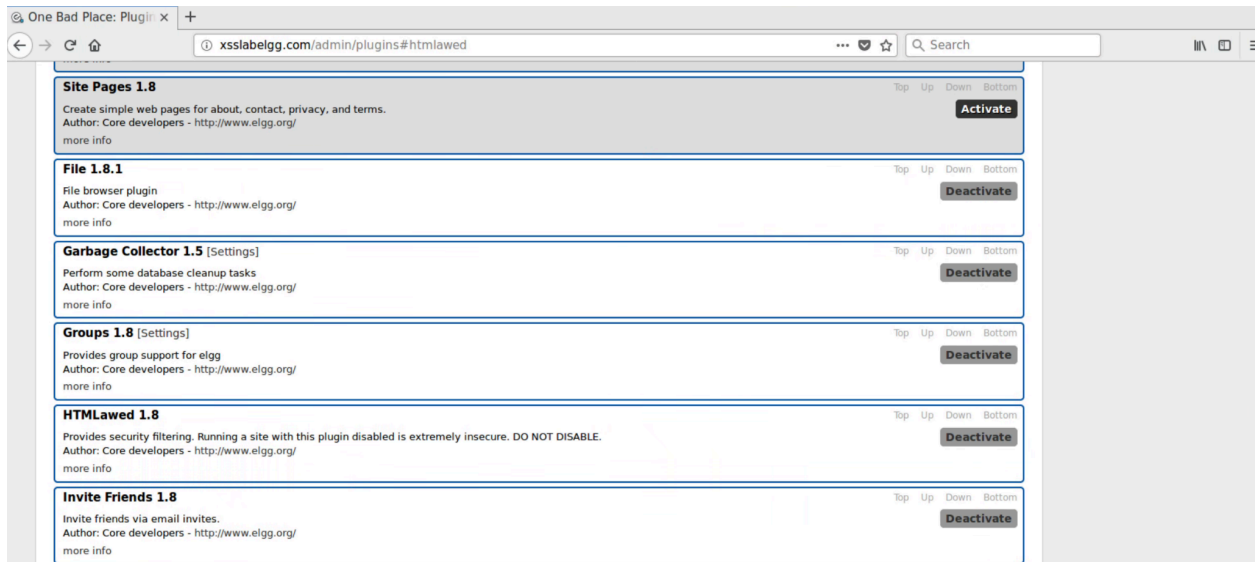
Task 3 Stealing Cookies from the Victim's Machine (Exfiltration)

Goal: Send the victim's cookies back to the attacker by forcing the victim's browser to make a request to the attacker's listener with the cookie appended.

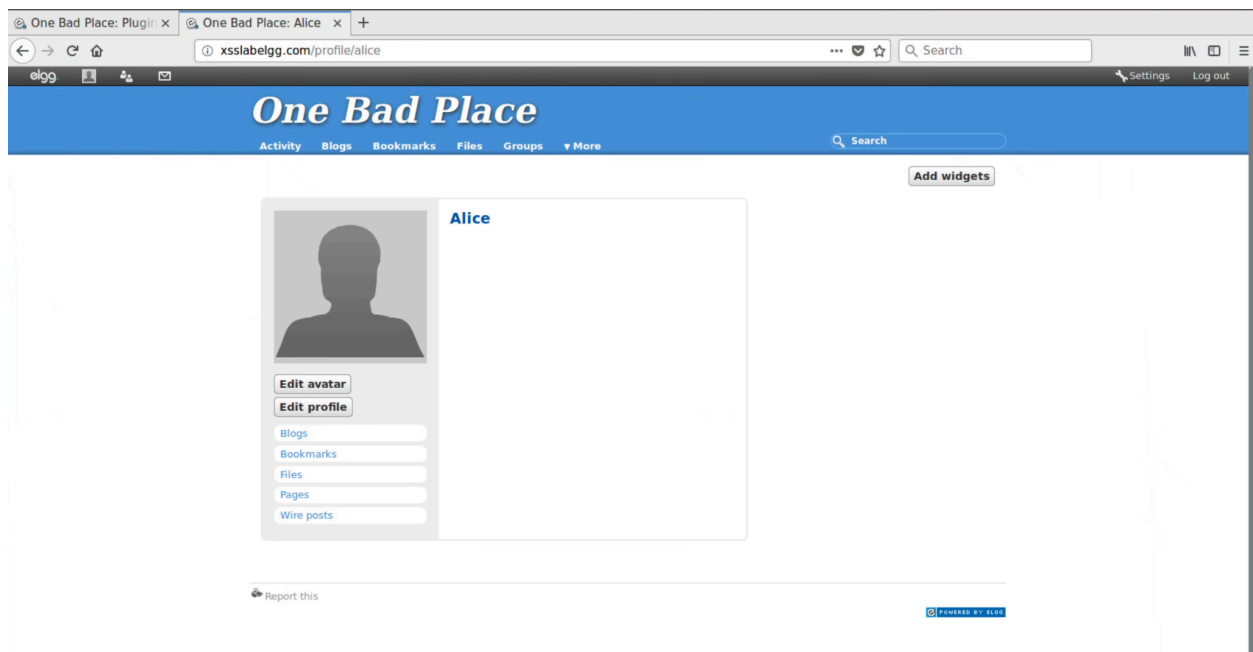
Payload used:

```
<script>
  document.write(' does not render as an executable tag.

Screenshots:



Expected behavior: HTMLawed will strip disallowed tags; in many cases `<script>` tags are removed entirely or sanitized so they no longer execute. Some attributes may be removed while leaving other HTML intact.



Fixed XSS when enabled protections - no prompts for session cookie and no scripts ran

**End of report.**