Web Hacking 101

Thursday (6th of July) 19:00 at DC Krov

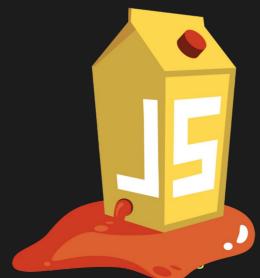
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Why should you learn Web Hacking?

- Modern companies host their services on the web, opposed to creating standalone applications
- Most Bug Bounty programs feature web resources
- Web Hacking is accessible to everyone via browser DevTools (yes, even on windows)
- Unlike working with actually good technology it gets bills paid (see also: javascript)

OWASP Juice Shop

OWASP Juice Shop is probably the most modern and sophisticated insecure web application. Juice Shop encompasses vulnerabilities from the entire OWASP Top Ten along with many other security flaws found in real-world applications!



Installation Steps

I'm going to be using Debian but you can follow those steps anywhere. If you are unable to follow those steps you can use the online version at https://demo.owasp-juice.shop

- 0. Install node and npm:
- \$ sudo apt install nodejs && sudo apt install npm
- 1. Download latest release from
 https://github.com/juice-shop/juice-shop/releases
- 2. Unpack with tar/unzip
- 3. cd into the dir and run npm start
- 4. Go to http://127.0.0.1:3000/

Web Hacker Tools

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FFUF Installation:
$ sudo apt install ffuf

SecLists Installation:
$ git clone
https://github.com/danielmiessler/SecLists.git
```

DevTools

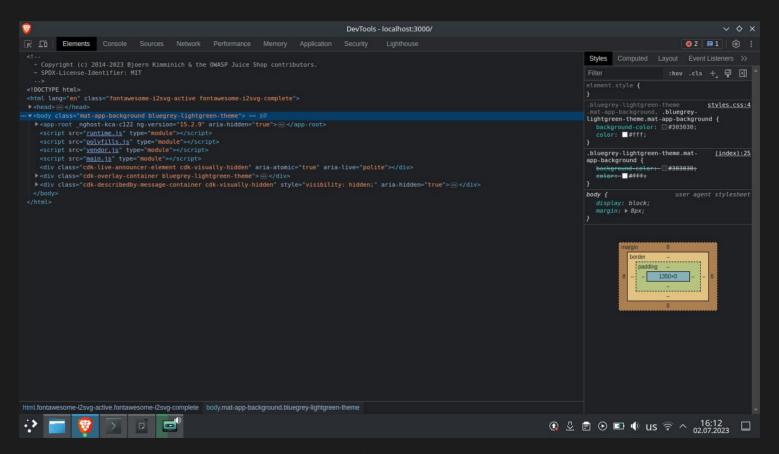
DevTools is going to be our main instrument in analysing websites and finding vulnerabilities.

Shortcut: Ctrl + Shift + I

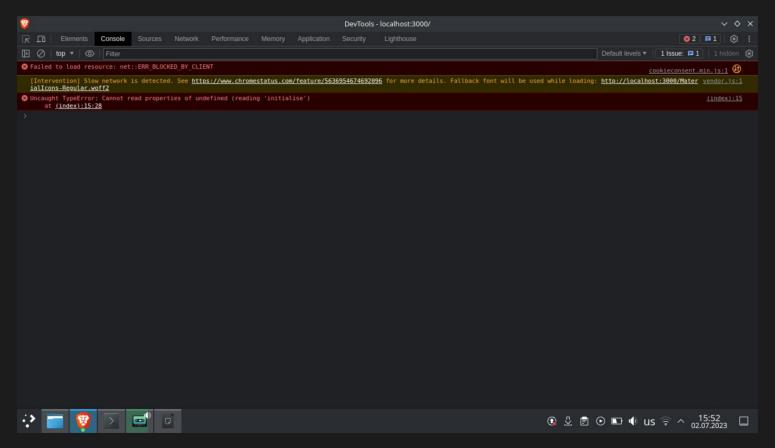
Mac shortcut: Command + Shift + I

Main DevTools tabs: Elements, Console, Sources, Network, Application

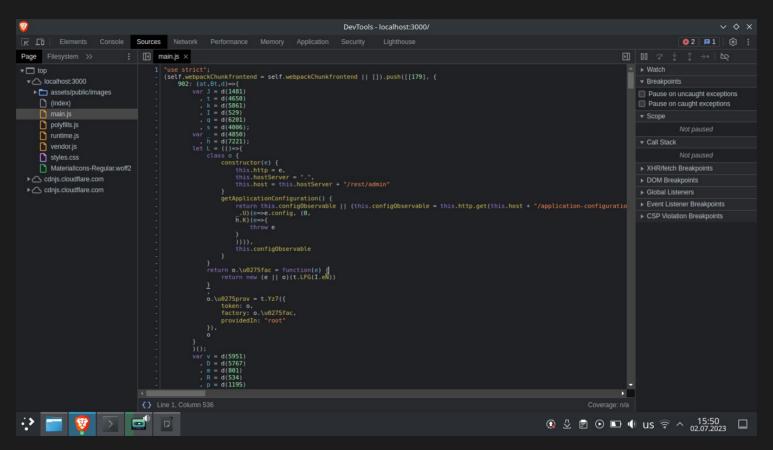
Elements



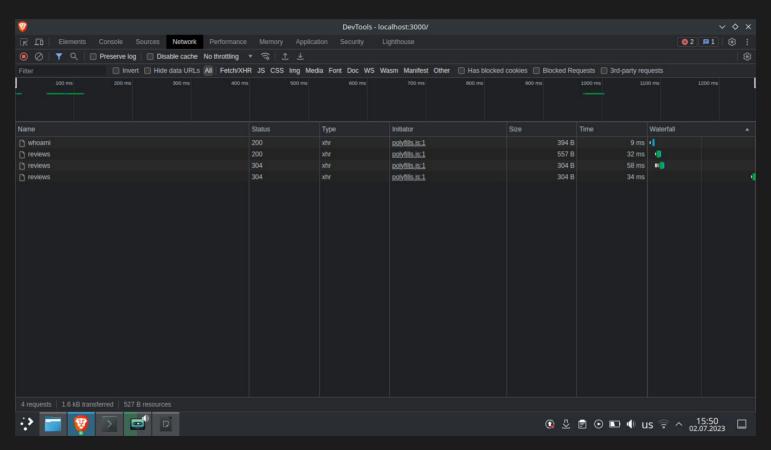
Console Tab



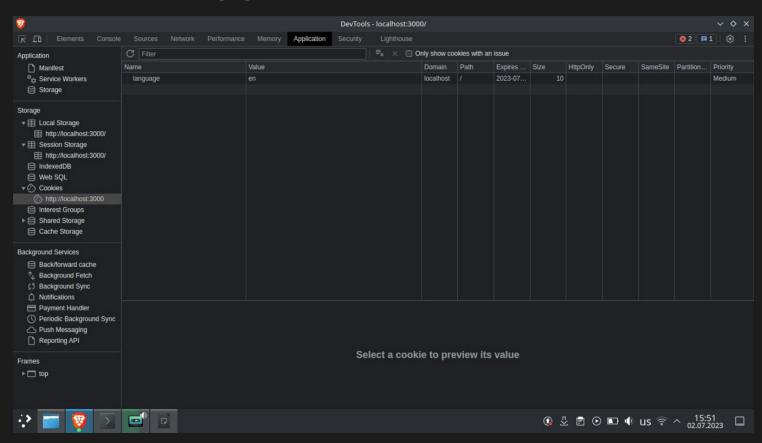
Sources Tab



Network Tab



Application Tab



Access control vulnerability

Access control enforces policy such that users cannot act outside of their intended permissions. Failures typically lead to unauthorized information disclosure, modification, or destruction of all data or performing a business function outside the user's limits.

Business Logic Vulnerabilities

Weaknesses in this category identify some of the underlying problems that commonly allow attackers to manipulate the business logic of an application. Errors in business logic can be devastating to an entire application. They can be difficult to find automatically, since they typically involve legitimate use of the application's functionality. However, many business logic errors can exhibit patterns that are similar to well-understood implementation and design weaknesses.

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Injection

Injection is a bug that happens when user input gets processed without proper validation and sanitization. There are client side injections, such as XSS, as well as server side injections like SQLi and XXE.

Happy hacking!