

# CTF Report: Finding a Hidden Flag with the Web Inspector

Ayoub Goubraim

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## Abstract

This report documents the solution to the picoCTF challenge **WebDecode**. Using only a browser's Developer Tools (Web Inspector), we enumerate static pages, examine embedded attributes, discover a Base64-encoded token in the DOM, and decode it to obtain the flag.

## 1 Challenge Overview

The challenge statement hints at using the web inspector and exploring “other files included by the page.” An on-demand instance hosts a simple static website.

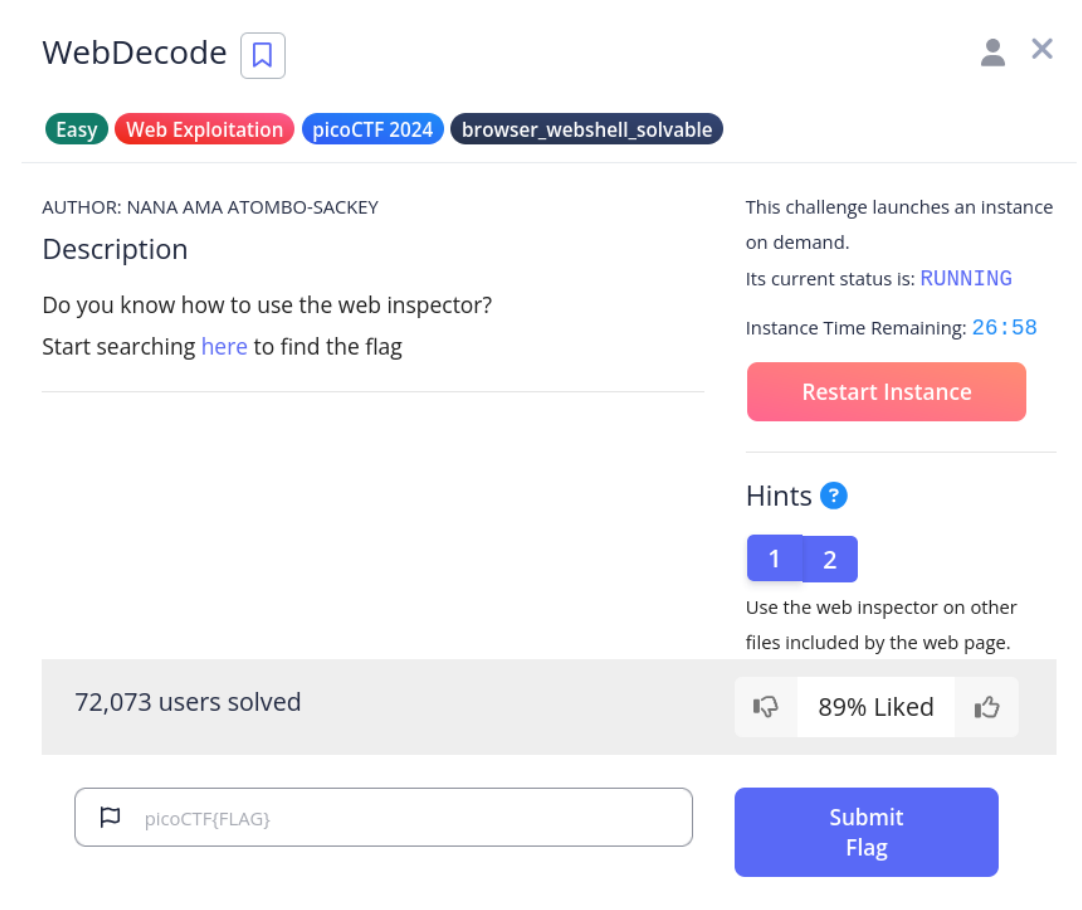


Figure 1: Challenge page: *WebDecode*.

## 2 Environment & Tools

- OS: Kali Linux.

- **Browser:** Firefox.
- **Tools:** Built-in Web Inspector (F12), and CyberChef (for Base64 decoding).

### 3 Reconnaissance

Navigating to the instance reveals a small multi-page site with a navbar (HOME, ABOUT, CONTACT). The landing page encourages further navigation.

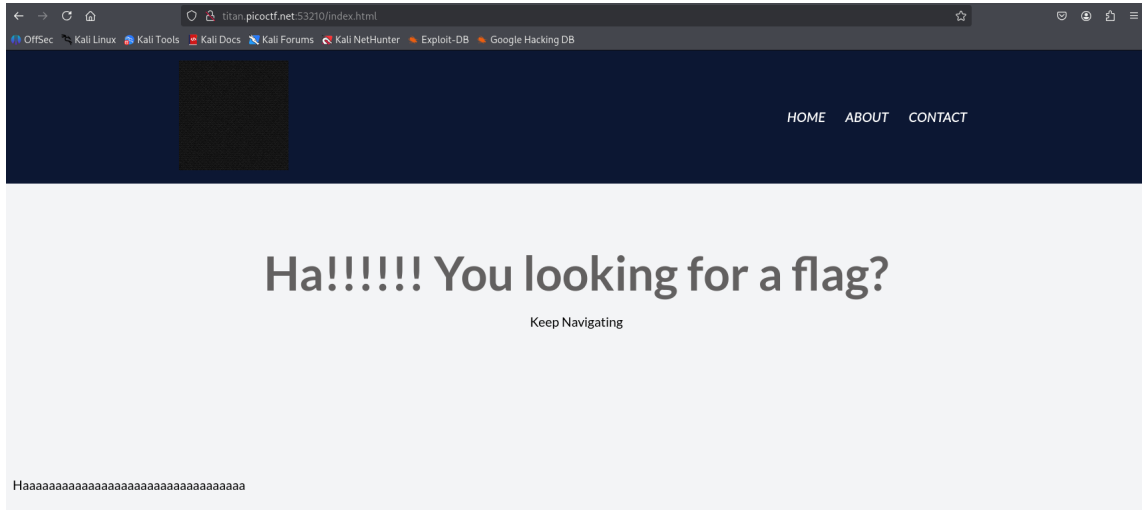


Figure 2: Homepage suggests continuing to navigate.

### 4 Inspecting the DOM

On the `about.html` page, a large banner explicitly suggests inspecting the page. Opening Developer Tools, the DOM shows a suspicious attribute embedded in a section element: `notify_true="<base64_stri`

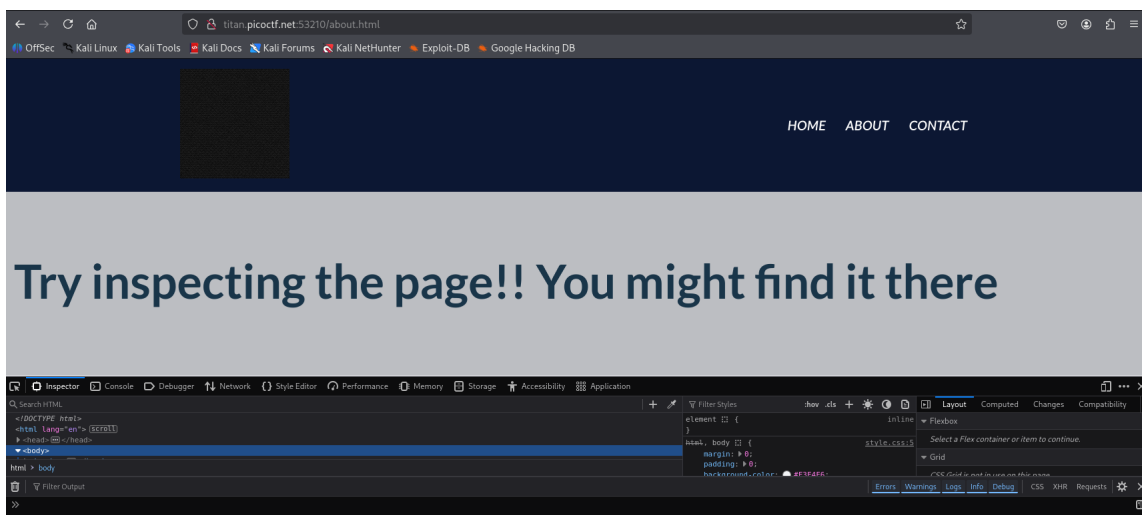


Figure 3: About page with the Web Inspector open. The hint says to inspect the page.

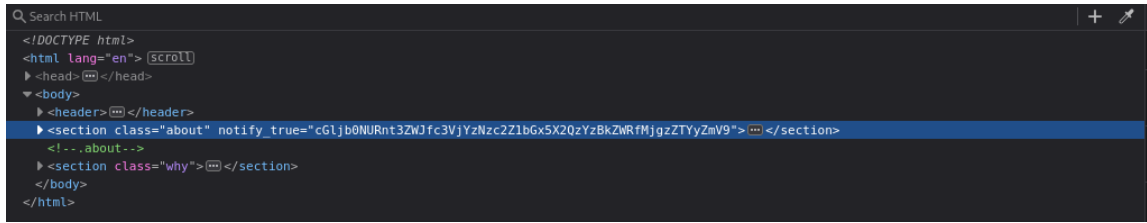


Figure 4: The Base64-encoded value found in the DOM (`notify_true` attribute).

## 5 Decoding and Extracting the Flag

The attribute value is Base64. Decoding it (e.g., in CyberChef with the *From Base64* operation) yields the flag in the standard picoCTF format.

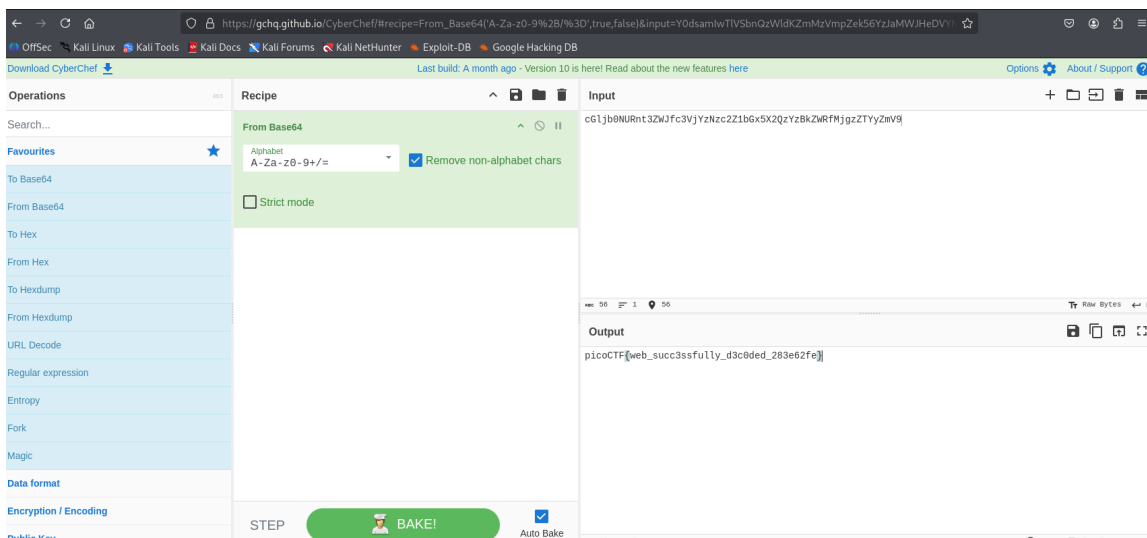


Figure 5: Decoding the Base64 token reveals the flag.

## 6 Result

The decoded string is the challenge flag:

`picoCTF{web_succ3ssfully_d3c0ded_283e62fe}`

## 7 Discussion & Takeaways

This challenge reinforces common web-inspection techniques:

- Always check the DOM for hidden attributes, comments, or embedded data.
- Explore all linked pages (`about`, `contact`, `assets`).
- Recognize common encodings like Base64 and have a quick way to decode them (CyberChef or CLI tools).

## 8 Conclusion

By systematically navigating the site and inspecting the DOM, we identified an embedded Base64 string and decoded it to retrieve the flag, fulfilling the *WebDecode* challenge requirements.