

The image features two thick black L-shaped corner brackets. One is positioned in the top-left corner, and the other is in the bottom-right corner. They are oriented towards each other, framing the central text.

ABUSING TARGET

@s4n7h0

Statutory Warning



Disclaimer

“This presentation is purely intended for knowledge sharing. The presenter’s intention is not to show any unknown or zero day security bugs. I strongly encourage responsible disclosure if you encounter any similar issues in the wide internet range. Examples shown in the live demo is only for educational purpose.”

Target

- `click here to foo`

target	<code>_blank</code> <code>_parent</code> <code>_self</code> <code>_top</code> <i>framename</i>	Specifies where to open the linked document
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Source: http://www.w3schools.com/tags/tag_a.asp

How it works (technically)

- User clicks on the hyperlink.
- The URL loads in new tab
- `window.opener` will have reference hook to parent tab.

window.opener

- Returns a reference to the window that opened this current window.
- Windows Phone browser does not support window.opener (tested with Microsoft Edge 25.10586.36.0). It is also not supported in IE if the opener is in a different security zone. (<https://developer.mozilla.org/>)

Property					
opener	Yes	Yes	Yes	Yes	Yes

Let's see things in action



Alright, What's the fix ?

- The issue is in client side, so does the fix too.
- Server can not control this.
- Security headers such as CSP, XSS Protection, etc., doesn't help.
- URL forwarding doesn't seems to have this issue so far.
- `rel="noopener noreferrer"`

Final thoughts

- Also known as _blank vulnerability. But somehow got ignored.
- There could be other sites that might have same issues. Go, hunt and report them responsibly.
- While some consider this as a security risk, others don't. Take your own mature decision on it.

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