CSS History Hack In Firefox Without JavaScript for Intranet Portscanning

CSS History Hack In Firefox Without JavaScript for Intranet Portscanning - Author not stated, ha.ckers.org.

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Content

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Okay, I know we've talked about Intranet port scanning to death, but I've been toying with an idea for around three years now regarding how I might be able to turn off JavaScript and perform intranet port scanning. Jer had some good ideas around delayed CSS timing (I even got that working at one point). But I still wanted to get the CSS history hack working with forced browsing and see if I could possibly turn that into a crude port scanner. Yeah, I have a few items on my plate, so it took me this long to finally sit down and hack it out. It turns out it was trivial once I got started, because CSS history testing is instant, you don't have to force a re-load of your test to see if it was successful.

That's the good news. Here's the bad news. 1) It only works in Firefox so far in my testing. It didn't work in IE8 (false negatives), Opera (false positives) or Safari (false negatives). 2) It's slow. Since it has to wait for all the HTTP requests to fire it's pretty unwieldy once you get over a few dozen requests. 3) It's noisy. If you're dealing with NTLM/basic or digest auth, not to mention any other popups or sounds or what-have-you, you're talking a pretty noisy port scanner. But all that said, it seems to work fairly well. You can check out the demo here.

Technical comments

Comments below are quoted from the archived source and retain the commenters' claims and qualifications.

Comment 2

rvdh Says:

January 25th, 2010 at 11:57 am

Doesn't seem to work here in Firefox 3.5.7, could be due to my router settings though.

Comment 3

RSnake Says:

January 25th, 2010 at 11:58 am

Do you have browsing history enabled? That caught me up several times.

Comment 4

rvdh Says:

January 25th, 2010 at 11:59 am

Yep. got that enabled, and don't use very exotic plugins or extensions. I configured my router firewall pretty strict, so I'm guessing that that blocks it.

Comment 5

RSnake Says:

January 25th, 2010 at 12:00 pm

Noscript will also block it if you have that enabled (cross domain iframes). So will request policy. It could be something like that as well.

Comment 6

rvdh Says:

January 25th, 2010 at 12:01 pm

Got no NoScript nor any policies running so far, odd isn't it?

Comment 7

RSnake Says:

January 25th, 2010 at 12:03 pm

Or you don't have anything at those locations - that could also be. Way too many variables there! :)

Comment 8

rvdh Says:

January 25th, 2010 at 12:08 pm

Ah wait, I thought I had my server running at 127.0.0.1 but it was turned down while testing. Now it works. :)

Comment 10

rvdh Says:

January 25th, 2010 at 12:12 pm

Indeed. In MSIE I get false positives as well as you did.

Comment 15

Aerik Says:

January 26th, 2010 at 3:32 pm

Another way of blocking the attack is using the extension ‘blocksite’ and blacklisting the localhost IP ranges with wildcards.
