Q

HOME RELEASES SUBMIT VULN PRESS ABOUT PGP CONTACT V TUTORIALS V SUPPORTERS PROJECTS

Home > Security

CVE-2021-39246 - Tor Browser through 10.5.6 and 11.x through 11.0a4 allows a correlation attack excessive verbose logging - Windows, macOS, Linux

by Sick Codes – September 24, 2021 - Updated on October 4, 2021 in Security \bigcirc 2

2 changed files >

```
src/core/or/connection_edge.c 🖺
2530
2531
             /* We don't support v2 onions anymore. Log a warning and bail. */
             if (addresstype == ONION V2 HOSTNAME) {
2532
               log warn(LD PROTOCOL, "Tried to connect to a v2 onion address, but this "
2533
                        "version of Tor no longer supports them. Please encourage the "
2534
                        "site operator to upgrade. For more information see "
2535
                        "https://blog.torproject.org/v2-deprecation-timeline.");
2536
               control event client status(LOG WARN, "SOCKS BAD HOSTNAME HOSTNAME=%s",
2537
                                           escaped(socks->address));
2538
               connection mark unattached ap(conn, END STREAM REASON TORPROTOCOL);
2539
 2540
               return -1;
 2541
2542
             tor assert(addresstype == ONION V3 HOSTNAME);
2543
```

CVE 2021 39246 Tor Browser through 10.5.6 and 11.x through 11.0a4

```
* sgmfbex2j2y: X
                                             ← → C & wikitoronionlinks.com
                                                                                                                 ... ☆ 0 4. =
                                   http://wikilink77h7lrbi.onion/ - WIKI Links
                                                                                                                                          stig/fonts.conf", line 37: Use of ambiguous path in <dir> element. p
se add prefix="cwd" if current behavior is desired.
config warning: "/tmp/tor-browser_en-US/Browser/TorBrowser/Data/fon
                                   http://linkdirdgrhkr2zm.onion/ - LINK DIR ONION - directory sites, rating, comments

    Home page
    Wiki Hidden

                                                                                                                                          Config Warning: /cmp/tor-browser_en-do/browser/forbrowser/brailed fig/fonts.conf", line 85: unknown element "blank" config warning: "/tmp/tor-browser_en-US/Browser/TorBrowser/Data/fon fig/fonts.conf", line 37: Use of ambiguous path in <dir> element. p e add prefix="cwd" if current behavior is desired.
  · Search engines
                                   http://n37hhelbuq3qsn22.onion/ - LINKS TOR 2018

    Financial Market

  · Social
                                   http://fernansslz7i23ta.onion/ - Links Dir Tor onion
  • Drugs
                                                                                                                                             onfig warning: "/tmp/tor-browser_en-US/Browser/TorBrowser/Data/fon
                                   http://filw23c4plmsmzt2.onion/ - Wiki site Tor

    Commercial Services

                                   http://sqmfbex2j2yzthop.onion/ - Dark ONION Dir - Best urls
  • Email
                                                                                                                                          ress. These addresses are deprecated for security reasons, and are onger supported in Tor. Please encourage the site operator to upgra
  • Hacking

    Hosting

                                    http://zqktlwi4fecvo6ri.onion/ - Uncensored Hidden Wiki
  · Library
                                   http://fernansslz7i23ta.onion/ - Dir Link
  . How to add a site
                                   http://hdwikicorldcisiy.onion/ - HD Wiki

    Contact Us

                                                                                                                                           onger supported in Tor. Please encourage the site operator to upgra
                                   http://276okalwqoour5vc.onion/ - List of random links
                                                                                                                                          config warning: "/tmp/tor-browser_en-US/Browser/TorBrowser/Data/fonfig/fonts.conf", line 37: Use of ambiguous path in <dir> element. p
                                    http://wiki5kauuihclargi5.onion/ - Onion Wiki - 650+ working 05.2017 deep web links
                                                                                                                                           add prefix="cwd" if current behavior is desired.
                                    http://torlinkbgs6aabns.onion/ - TorLinks
```

Title

http://jh32yv5zgayyyts3.onion/ - Hidden Wiki Onion Uris

CVE-2021-39246 - Tor Browser through 10.5.6 and 11.x through 11.0a4 allows a confit 4f8nt attack excessive velocities and prefix excessive velocities are depreciated prefix excessive velocities. The process of th

CVSS:3.1/AV:P/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:N

Internal ID

SICK-2021-111

Vendor

Тот

Product

Tor Browser on Windows, macOS, Linux

Product Versions

10.5.6 and 11.x through 11.0a4

Vulnerability Details

Tor Browser through 10.5.6 and 11.x through 11.0a4 allows a correlation attack that can compromise the privacy of visits to v^2 onion addresses. Exact timestamps of these onion-service visits are logged locally, and an attacker might be able to compare them to timestamp data collected by the destination server (or collected by a rogue site within the Tor network). This occurs by default, with or without verbose.

Vendor Response

Open pull request in relation to timestamp logging as v2 will be deprecated soon:

https://gitlab.torproject.org/tpo/core/tor/-/merge_requests/434.

Proof of Concept

Tor Browser latest 10.5.6 is affected.

Tor Browser alpha 11.0a4 is affected.

This is because $\mbox{Tor 0.4.6}$ introduced a warning every time a client connects to a v2 domain.

 $\textbf{See:} \ \texttt{https://gitlab.torproject.org/tpo/core/tor/-/commit/5e836eb80c31b97f87b152351b6a7a932aeffaed} \\$

Also see "Log warning when connecting to soon-to-be-deprecated v2 onions."

cd /tmp

wget https://www.torproject.org/dist/torbrowser/10.5.6/tor-browser-linux64-10.5.6_en-US.tar.xz

tar -xzvf tor-browser-linux64-10.5.6_en-US.tar.xz

cd /tmp/tor-browser_en-US/

./start-tor-browser.desktop --verbose

Launching './Browser/start-tor-browser --detach --verbose'...

Visit any v2 onion site, connection timestamps are logged at the exact moment the server responds.

Sep 24 16:28:52.000 [warn] Warning! You've just connected to a v2 onion address. These addresses are deprecated for security reasons, and are no longer supported in Tor. Please encourage the site operator to upgrade. For more information see https://blog.torproject.org/v2-deprecation-timeline

Sep 24 16:28:52.000 [warn] Warning! You've just connected to a v2 onion address. These addresses are deprecated for security reasons, and are no longer supported in Tor. Please encourage the site operator to upgrade. For more information see https://blog.torproject.org/v2-deprecation-timeline

Sep 24 16:28:52.000 [warn] Warning! You've just connected to a v2 onion address. These addresses are deprecated for security reasons, and are no longer supported in Tor. Please encourage the site operator to upgrade. For more information see https://blog.torproject.org/v2-deprecation-timeline

Sep 24 16:29:02.000 [warn] Warning! You've just connected to a v2 onion address. These addresses are deprecated for security reasons, and are no longer supported in Tor. Please encourage the site operator to upgrade. For more information see https://blog.torproject.org/v2-deprecation-timeline

		. 1	 me	TP 4	1	 _

- 2021-07-02 Researcher discovers vulnerability on bounty platform
- 2021-07-07 Report closed as informative
- 2021-08-17 Researcher requests CVE
- 2021-08-17 Vendor re-notified via sec mailing list, and on bounty platform chat.
- 2021-09-10 No response: researcher opens Pull Request to remove timestamps.
- 2021-09-24 CVE published

Links

https://github.com/sickcodes/security/blob/master/advisories/SICK-2021-111.md

https://sick.codes/sick-2021-111

https://www.privacyaffairs.com/cve-2021-39246-tor-vulnerability/

https://gitlab.torproject.org/tpo/core/tor/-/commit/80c404c4b79f3bcba3fc4585d4c62a62a04f3ed9

https://gitlab.torproject.org/tpo/core/tor/-/merge_requests/434

https://hackerone.com/reports/1250273

Researchers

- Sick Codes https://github.com/sickcodes || https://twitter.com/sickcodes
- Miklos Zoltan https://twitter.com/mzb4455 || https://www.privacyaffairs.com/authors/miklos/

CVF Links

https://sick.codes/sick-2021-111

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-39246

https://nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-39246

Comments 2

Comments 2								
Pingback: Vulnerability Summary for the Week of September 27, 2021 Smart Cyber Security								
Pingback: Vulnerabilidad en () - CVE-2021-39246 - Información y Soluciones								
Leave a Reply								
Your email address will not be published. Required fields are marked *								
Comment *								
Name								
Email	Website							

POST COMMENT





<u>asickcodes</u>



<u>asickcodes</u>



Discord Server



sickcodes.slack.com



t.me/sickcodeschat



./contact_form