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API crashes #1769

Closed Popvlvs opened this issue on Sep 19 · 1 comment

Labels

Bug

Popvlvs commented on Sep 19 · edited ▾

Hi,

I was fuzzing an AMF's API endpoint <http://x.x.x.x:7777/namf-comm/v1/ue-contexts>) with some random JSON payloads and it eventually crashed:

```
09/19 11:44:40.992: [sbi] ERROR: Unknown resource name [(null)] (../lib/sbi/message.c:1484)
09/19 11:44:40.992: [sbi] ERROR: parse_content() failed (../lib/sbi/message.c:559)
09/19 11:44:40.992: [amf] ERROR: cannot parse HTTP sbi_message (../src/amf/amf-sm.c:98)
09/19 11:44:41.083: [sbi] ERROR: Unknown resource name [(null)] (../lib/sbi/message.c:1484)
09/19 11:44:41.083: [sbi] ERROR: parse_content() failed (../lib/sbi/message.c:559)
09/19 11:44:41.083: [amf] ERROR: cannot parse HTTP sbi_message (../src/amf/amf-sm.c:98)
09/19 11:44:41.176: [sbi] ERROR: Unknown resource name [(null)] (../lib/sbi/message.c:1484)
09/19 11:44:41.176: [sbi] ERROR: parse_content() failed (../lib/sbi/message.c:559)
09/19 11:44:41.177: [amf] ERROR: cannot parse HTTP sbi_message (../src/amf/amf-sm.c:98)
09/19 11:44:41.266: [sbi] ERROR: Unknown resource name [(null)] (../lib/sbi/message.c:1484)
09/19 11:44:41.266: [sbi] ERROR: parse_content() failed (../lib/sbi/message.c:559)
09/19 11:44:41.266: [amf] ERROR: cannot parse HTTP sbi_message (../src/amf/amf-sm.c:98)
09/19 11:44:41.365: [sbi] ERROR: Overflow : Content-Length[6751], len[2704] (../lib/sbi/nghttp2-server.c:953)
09/19 11:44:41.365: [core] FATAL: backtrace() returned 9 addresses (../lib/core/ogs-abort.c:37)
/home/core5g/open5gs/install/lib/x86_64-linux-gnu/libogssbi.so.2(+0x29d3f) [0x7f1109c42d3f]
/lib/x86_64-linux-gnu/libnghttp2.so.14(nghttp2_session_mem_recv+0x101d) [0x7f110958236d]
/home/core5g/open5gs/install/lib/x86_64-linux-gnu/libogssbi.so.2(+0x27f35) [0x7f1109c40f35]
/home/core5g/open5gs/install/lib/x86_64-linux-gnu/libogsscore.so.2(+0x2aa09) [0x7f110a066a09]
/home/core5g/open5gs/install/bin/open5gs-amfd(+0x7d00) [0x5651b94efd00]
/home/core5g/open5gs/install/lib/x86_64-linux-gnu/libogsscore.so.2(+0x12639) [0x7f110a04e639]
/lib/x86_64-linux-gnu/libpthread.so.0(+0x8609) [0x7f11097be609]
/lib/x86_64-linux-gnu/libc.so.6(clone+0x43) [0x7f11096e3133]
```

It happens with NULL BYTE as a payload, as shown in the following pictures:

```
[ "1", { "1": "0" } ]
[ 1, { "1": "0" } ]
[ { "1": "0" }, 1 ]
[ ":test", "1" ]
[ ":\x00", "1" ]
[ "1", "1", "1", "1", "1",
  "1", "1", "1", "1", "1",
  "1", "1", "1", "1", "1",
  "1", "1", "1", "1", "1" ]
```

7777	7777 HTTP2/JSON	124 DATA[1], JavaScript Object Notation (application/json)
49416	7777 HTTP2/JSON	76 DATA[1], JavaScript Object Notation (application/json)
7777	49416 HTTP2/JSON	124 DATA[1], JavaScript Object Notation (application/problem+json)

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```

✓ Hypertext Transfer Protocol 2
  ▾ Stream: DATA, Stream ID: 1, Length 13
    Length: 13
    Type: DATA (0)
    ▸ Flags: 0x01, End Stream
      0... .. = Reserved: 0x0
      .000 0000 0000 0000 0000 0000 0001 = Stream Identifier: 1
      [Pad Length: 0]
      Data: 5b223a783030222c202231225d
  ▾ JavaScript Object Notation: application/json
    ▾ Array
      [Path with value: /[:]:x00]
      [Member with value: [[:]:x00]
      String value: :x00
      [Path with value: /[:]:1]
      [Member with value: [[:]:1]
      String value: 1

```

Regards

 acetcom added a commit that referenced this issue on Sep 25

 Fixed HTTP2 crashes for random JSON data ([#1769](#))

✓ 724fa56

acetcom commented on Sep 25

Member

@Popvlvs

I've fixed it.

Thank you so much.
Sukchan

 acetcom added the Bug label on Sep 25

 NLAG added a commit to securitylab-repository/open5gs_ciot that referenced this issue on Oct 19



Update repo to open5gs/open5gs main ([#1](#)) ...

fdfe2c9

Assignees

No one assigned

Labels

Bug

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

