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A global-buffer-overflow in hcxpcapngtool.c:3789:4 #155

New issue

**⊘ Closed )** seviezhou opened this issue on Aug 11, 2020 · 7 comments

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makes a seviezhou changed the title American everlap in hexpeapingtool.e:3789:4 A global-buffer-overflow in hexpeapingtool.e:3789:4 on Aug 11, 2020

```
ZerBea commented on Aug 12, 2020 • edited ▼
                                                                                                                                                                                                                   Owner
Thanks for reporting that issue. It should be fixed by latest commit:
 e6505dd
Analysis of the attached pcapng file:
The dumpfile contain 4 IPv4 UDP frames.
Frame 4 is damaged (Wireshark/tshark will not show frame 4).
  $ tshark -r memcpy-param-overlap-pcapngoptionwalk-hcxpcapngtool-3786
1 05:44:20,095111 172.16.98.182 → 172.16.98.2 DNS 70 Standard query 0xee40 A domain.xyz
       2 05:44:20,096318 172.16.98.1 \rightarrow 172.16.98.105 DNS 70 Standard query 0xee40 A domain.xyz
```

```
3 \text{ 05:}44:20,096678 172.16.98.105} \rightarrow 172.16.98.1 DNS 124 Standard query response 0xee40 A domain.xyz SOA 1856329112e5
    tshark: The file "memcpy-param-overlap-pcapngoptionwalk-hcxpcapngtool-3786" appears to be damaged or corrupt.
    (pcapng_read_option: Not enough data to handle option length (32768) of the packet block)
By latest commit, hcxpcangtool is able to handle that kind of damaged pcapng files (inclusive detection of all included frames):
    {\tt \$ hcxpcapngtool memcpy-param-overlap-pcapngoptionwalk-hcxpcapngtool-3786}\\
    reading from memcpy-param-overlap-pcapngoptionwalk-hcxpcapngtool-3786...
    failed to read pcapng block header
    summary capture file
    operating system..... N/A
    interface vendor...... 000000
    weak candidate..... N/A

        MAC ACCESS POINT
        : 0000000000000 (incremented on every new client)

        MAC CLIENT
        : 000000000000

        REPLAYCOUNT
        : 0

    endianess (capture system) : little endian packets inside. : 4
    IPv4..... 4
    packet read error..... 1
    Warning: missing frames!
    This dump file contains no undirected proberequest frames.
    An undirected proberequest may contain information about the PSK. It always happens if the capture file was cleaned or \,
    it could happen if filter options are used during capturing. That makes it hard to recover the PSK.  \label{eq:potential} % \begin{subarray}{ll} \end{subarray} % \begin{subarray}{ll}
    Warning: missing frames!
This dump file contains no important frames like
    authentication, association or reassociation.

It always happens if the capture file was cleaned or
    it could happen if filter options are used during capturing.
    That makes it hard to recover the PSK.
    Warning: missing frames!
    This dump file doesn't contain enough EAPOL M1 frames.
    It always happens if the capture file was cleaned or
   it could happen if filter options are used during capturing.
That makes it impossible to calculate nonce-error-correction values.
Please test and reopen issue, if it doesn't work for you.
(<u>l</u> 1)
      ⚠ ZerBea closed this as completed on Aug 12, 2020
seviezhou commented on Aug 12, 2020
I think this commit has fixed this issue.
ZerBea commented on Aug 12, 2020
The attached pcapng file is very appreciated and helped to improve hcxtools.
Now, 4 frames detected by hcxpcangtool vs 3 frames detected by tshark/Wireshark.
seviezhou commented on Aug 12, 2020
                                                                                                                                                                                                                                                                       Author
Glad that it helps.
fgeek commented on Sep 21, 2021
CVE-2021-32286 has been assigned for this issue.
ZerBea commented on Sep 21, 2021
                                                                                                                                                                                                                                                                       Owner
And it was fixed a long time ago.
    $ valgrind hcxpcapngtool -o test.22000 global-overflow-pcapngoptionwalk-hcxpcapngtool-3789.pcpng
    hcxpcapngtool 6.2.4-8-gaaa4238 reading from global-overflow-pcapngoptionwalk-hcxpcapngtool-3789.pcpng...
    failed to read pcapng block header
   operating system..... N/A
    application..... N/A
    interface name..... vmnet8
    interface vendor..... 000000
```

openSSL version	
weak candidate	
MAC ACCESS POINT	
MAC CLIENT 0000000000000	
REPLAYCOUNT 0	
ANDNCE	
SNONCE	
timestamp minimum (GMT) 13.05.2016 07:44:20	
timestamp maximum (GMT): 13.05.2016 07:44:20	
used capture interfaces	
link layer header type DLT_EN10MB (1)	
endianess (capture system): little endian	
packets inside	
IPv4 (total)	
UDP (total)	
EARLY ANOMIC ENTUY COTTECTIONS (MC)	
packet redu error	
Information: no hashes written to hash files	
Warning: missing frames!	
This dump file does not contain undirected proberequest frames.	
An undirected proberequest may contain information about the PSK.	
It always happens if the capture file was cleaned or	
it could happen if filter options are used during capturing.	
That makes it hard to recover the PSK.	
Warning: missing frames!	
This dump file does not contain important frames like	
authentication, association or reassociation.	
It always happens if the capture file was cleaned or it could happen if filter options are used during capturing.	
That makes it hard to recover the PSK.	
Warning: missing frames!	
wen hang. massaring rismes: This dump file does not contain enough EAPOL M1 frames.	
II always happens if the capture file was cleaned or	
It always mapped In the tapture like was Cleaned Or it could happen if filter options are used during capturing.	
That makes it impossible to calculate nonce-error-correction values.	
session summary	
processed pcapng files	
2227 Manhall a company and debate	
==32397== Memcheck, a memory error detector	
==32397== Copyright (C) 2002-2017, and GMU GPL'd, by Julian Seward et al. ==22397== Using Valerind-3.17.0 and LibVEX; rerun with -h for copyright info	
==3239/== USINg VAIgTING-3.17.0 and LIDVEX; rerun with -n TOT COPYTIGNT LITTO ==32397= Command: https://opangtool -o test.22000 global-overflow-pcapngoptionwalk-hcxpcapngtool-3789.pcpg	
==32397== HEAP SUMMAY:	
==32397== in use at exit: 0 bytes in 0 blocks	
==32397== total heap usage: 0 allocs, 0 frees, 0 bytes allocated	
==3239/==	
==32397== All heap blocks were freed no leaks are possible	
==32397==	
==32397== For lists of detected and suppressed errors, rerun with: -s	
==32397== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)	

ZerBea commented on Sep 21, 2021	Owner
@fqeek , but anyway, your comment reminded me that I forgot to make a changelog entry that it was fixed.	
Now done by this commit:	
6f77455	
Thanks.	
<b>a</b> 1	

Assignees

No one assigned

Labels

None yet

Projects None yet

Milestone

No milestone

Development

No branches or pull requests

3 participants

