Jump to bottom New issue

stack-buffer-overflow at /coders/xpm.c:232 in ReadXPMImage #1895

⊘ Closed peanuts62 opened this issue on Apr 14, 2020 · 9 comments

```
peanuts62 commented on Apr 14, 2020
Prerequisites
• [ ] I have written a descriptive issue title
• [ ✓] I have verified that I am using the latest version of ImageMagick
• [ ✓] I have searched open and closed issues to ensure it has not already been reported
Description
There's a stack buffer overflow at /coders/xpm.c:232 in ReadXPMImage
Steps to Reproduce
run_cmd
\label{lem:magick} {\tt magick convert ./afl-Ima/sync\_dir/fuzzer2/crashes/id\:000000\,sig\:06\,src\:009314\,op\:havoc\,rep\:16 t.png} \\
Here's ASAN log.
   ==22728==ERROR: AddressSanitizer: stack-buffer-overflow on address 0x7fff34696d60 at pc 0x7fb49cb4a648 bp 0x7fff34694c80 sp 0x7fff34694c70
  READ of size 1 at 0x7fff34696d60 thread T0
#0 0x7fb49cb4a647 in ParseXPMColor /home/afl-Ima/ImageMagick/coders/xpm.c:232
      #1 0x7fb49cb3d610 in ReadXPMImage /home/afl-Ima/ImageMagick/coders/xpm.c:425 #2 0x7fb49beb03c9 in ReadImage /home/afl-Ima/ImageMagick/MagickCore/constitute.c:553
      #3 0x7fb49beb4d46 in ReadImages /home/afl-Ima/ImageMagick/MagickCore/constitute.c:941
#4 0x7fb49b594ed2 in ConvertImageCommand /home/afl-Ima/ImageMagick/MagickWand/convert.c:606
#5 0x7fb49b6cd098 in MagickCommandGenesis /home/afl-Ima/ImageMagick/MagickWand/mogrify.c:186
      #6 0x55be14ba8ec0 in MagickMain utilities/magick.c:149
      #7 0x55be14ba9146 in main utilities/magick.c:180
#8 0x7fb49ae56b96 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21b96)
       #9 0x55be14ba8939 in _start (/home/ImageMagick/utilities/.libs/magick+0x1939)
  Address 0x7fff34696d60 is located in stack of thread T0 at offset 8352 in frame
        0 0x7fb49cb3adef in ReadXPMImage /home/afl-Ima/ImageMagick/coders/xpm.c:250
    This frame has 7 object(s):
       [32, 4128) 'key:251'
      [4256, 8352) 'target:251' <== Memory access at offset 8352 overflows this variable [8480, 8488) 'colors:286' [8512, 8520) 'columns:286'
       [8544, 8552) 'rows:286'
       [8576, 8584) 'width:286
  HINT: this may be a false positive if your program uses some custom stack unwind mechanism or swapcontext
  (longjmp and C++ exceptions *are* supported)

SUMMARY: AddressSanitizer: stack-buffer-overflow /home/afl-Ima/ImageMagick/coders/xpm.c:232 in ParseXPMColor
   =>0x1000668cada0: 00 00 00 00 00 00 00 00 00 00 00 00 f2]f2 f2 f2
    0x1000668cadc0: 00 f2 f2 f2 00 f2 f2 f2 00 f2 f2 f2 00 00 00
    Addressable:
                           00
    Partially addressable: 01 02 03 04 05 06 07
Heap left redzone: fa
    Freed heap region:
Stack left redzone:
    Stack mid redzone:
    Stack right redzone:
    Stack after return:
    Stack use after scope:
    Global redzone:
Global init order:
    Poisoned by user:
Container overflow:
    Array cookie:
    Intra object redzone:
    ASan internal:
    Left alloca redzone:
    Right alloca redzone:
   ==22728==ABORTING
```

System Configuration

ImageMagick version:

Version: ImageMagick 7.0.10-7 Q16 x86_64 2020-04-10 https://imagemagick.org Copyright: © 1999-2020 ImageMagick Studio LLC License: https://imagemagick.org/script/license.php

Features: Cipher DPC HDRI OpenMP(3.1) Delegates (built-in): zlib Environment (Operating system, version and so on): Description: Ubuntu 18.04.1 LTS · Additional information: root@VM-0-15-ubuntu:/home# ./ImageMagick/utilities/.libs/magick identify -list policy Path: /usr/local/etc/ImageMagick-7/policy.xml Policy: Resource name: list-length value: 128 Policy: Resource name: file value: 768 Policy: Resource name: disk value: 16EiB Policy: Resource name: map value: 4GiB Policy: Resource name: area value: 100MP Policy: Resource name: height value: 10KP Policy: Resource name: width value: 10KP Path: [built-in] Policy: Undefined rights: None edit by peanuts , and Is it possible to request a cve id? 🔀 urban-warrior pushed a commit to ImageMagick/ImageMagick6 that referenced this issue on Apr 14, 2020 https://github.com/ImageMagick/ImageMagick/issues/1895 2653866 urban-warrior pushed a commit that referenced this issue on Apr 14, 2020 https://github.com/ImageMagick/ImageMagick/issues/1895 5462fd4 urban-warrior commented on Apr 14, 2020 Contributor ASAN does not return a stack issue for us. We're using ASAN with gcc 9.3.1. However, valgrind returned a unconditional jump. We added a patch. peanuts62 commented on Apr 14, 2020 Author Thank you. peanuts62 commented on Apr 14, 2020 Author Can I request a CVE ID? urban-warrior commented on Apr 14, 2020 Contributor Not sure what you're asking. Anyone can request a CVE ID. We rely on the user community to post CVE's due to our small development team and lack of time to address all issues associated with ImageMagick. peanuts62 commented on Apr 14, 2020 Author thank you, I hope this question can be assigned CVE Contributor thesamesam commented on Apr 22, 2020 @minghangshen You need to request a CVE from an authority like MITRE: https://cve.mitre.org/cve/request_id.html. Please let us know if you do. peanuts62 commented on Apr 22, 2020 Author @thesamesam I have submitted the form in https://cve.mitre.org/cve/request_id.html , and I have received an automatic response, but no response since Author peanuts62 commented on Apr 22, 2020 @thesamesam Auto-reply title: CVE Request 878017 for CVE ID Request



itewqq mentioned this issue on May 7, 2021 Cannot reproduce poc2 peanuts62/bug_poc#1 ⊙ Open

Assignees

No one assigned

Labels

None yet

Milestone

Development

No branches or pull requests

5 participants



