huntr

Heap-based Buffer Overflow in function get_lisp_indent in vim/vim

0

✓ Valid

Reported on Jun 16th 2022

Description

Heap-based Buffer Overflow in function get_lisp_indent at indent.c:1994

vim version

```
git log
commit 83497f875881973df772cc4cc593766345df6c4a (HEAD -> master, tag: v8.2.
```

POC

```
#10 0xe555f6 in do_source /home/fuzz/fuzz/vim/afl/src/scriptfile.c:1801
   #11 0xe54f33 in cmd source /home/fuzz/fuzz/vim/afl/src/scriptfile.c:117
   #12 0xe5463e in ex source /home/fuzz/fuzz/vim/afl/src/scriptfile.c:1200
   #13 0x7dd249 in do one cmd /home/fuzz/fuzz/vim/afl/src/ex docmd.c:2570:
   #14 0x7ca105 in do cmdline /home/fuzz/fuzz/vim/afl/src/ex docmd.c:992:1
   #15 0x7ced81 in do_cmdline_cmd /home/fuzz/fuzz/vim/afl/src/ex_docmd.c:
   #16 0x1422702 in exe commands /home/fuzz/fuzz/vim/afl/src/main.c:3133:2
   #17 0x141e89b in vim main2 /home/fuzz/fuzz/vim/afl/src/main.c:780:2
   #18 0x1413dad in main /home/fuzz/fuzz/vim/afl/src/main.c:432:12
   #19 0x7fe23555b082 in __libc_start_main /build/glibc-SzIz7B/glibc-2.31,
   #20 0x41ea4d in start (/home/fuzz/fuzz/vim/afl/src/vim+0x41ea4d)
0x621000013d00 is located 0 bytes to the right of 4096-byte region [0x62100]
allocated by thread TO here:
   #0 0x499cad in malloc (/home/fuzz/fuzz/vim/afl/src/vim+0x499cad)
   #1 0x4cb382 in lalloc /home/fuzz/fuzz/vim/afl/src/alloc.c:246:11
   #2 0x4cb26a in alloc /home/fuzz/fuzz/vim/afl/src/alloc.c:151:12
   #3 0x142bfb5 in mf alloc bhdr /home/fuzz/fuzz/vim/afl/src/memfile.c:884
   #4 0x142adc7 in mf new /home/fuzz/fuzz/vim/afl/src/memfile.c:375:26
   #5 0xa60d28 in ml new data /home/fuzz/fuzz/vim/afl/src/memline.c:4080:1
   #6 0xa5f6d1 in ml open /home/fuzz/fuzz/vim/afl/src/memline.c:394:15
   #7 0x501c8a in open buffer /home/fuzz/fuzz/vim/afl/src/buffer.c:186:9
   #8 0x141ff4c in create windows /home/fuzz/fuzz/vim/afl/src/main.c:2902:
   #9 0x141e21a in vim main2 /home/fuzz/fuzz/vim/afl/src/main.c:711:5
   #10 0x1413dad in main /home/fuzz/fuzz/vim/afl/src/main.c:432:12
   #11 0x7fe23555b082 in libc start main /build/glibc-SzIz7B/glibc-2.31,
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/fuzz/fuzz/vim/afl/src
Shadow bytes around the buggy address:
 =>0x0c427fffa7a0:[fa]fa fa fa
 0x0c427fffa7b0: fa fa
 Chat with us
 0x0c427fffa7e0: fa fa
 0x0c427fffa7f0: fa ta ra
```

Snadow byte legend (one snadow byte represents 8 application bytes):

Addressable: 00

Partially addressable: 01 02 03 04 05 06 07

Heap left redzone: fa Freed heap region: fd Stack left redzone: f1 Stack mid redzone: f2 Stack right redzone: f3 Stack after return: f5 Stack use after scope: f8 Global redzone: f9 Global init order: f6 f7 Poisoned by user: Container overflow: fc Array cookie: ac Intra object redzone: bb ASan internal: fe Left alloca redzone: ca Right alloca redzone: cb Shadow gap: CC

==**2361**==ABORTING



poc_hbo2_s.dat

Impact

This vulnerabilities are capable of crashing software, modify Memory, and possible remote execution

CVE

CVE-2022-2125 (Published)

Vulnerability Type

CWE-122: Heap-based Buffer Overflow

Severity

High (7.8)

Chat with us

Registry

Affected Version

*

Visibility

Public

Status

Fixed

Found by



TDHX ICS Security

@jieyongma



Fixed by



Bram Moolenaar

@brammoo

maintainer

This report was seen 899 times.

We are processing your report and will contact the **vim** team within 24 hours. 5 months ago

We have contacted a member of the vim team and are waiting to hear back 5 months ago

Bram Moolenaar validated this vulnerability 5 months ago

I can reproduce it, also with a much simpler POC.

TDHX ICS Security has been awarded the disclosure bounty 🗸

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

Chat with us

Bram Moolenaar marked this as fixed in 8.2 with commit 0e8e93 5 months ago

Bram Moolenaar has been awarded the fix bounty 🗸

This vulnerability will not receive a CVE x

Sign in to join this conversation

2022 © 418sec

huntr

home

hacktivity

leaderhoard

FAO

contact us

terms

privacy policy

part of 418sec

company

about

team