huntr

Heap-based Buffer Overflow in radareorg/radare2



Reported on Feb 20th 2022

Description

heap-buffer-overflow /home/ubuntu/fuzz/radare2/libr/include/r_endian.h:176 in r_read_le32

1

Environment

Distributor ID: Ubuntu

Description: Ubuntu 20.04 LTS

Release: 20.04 Codename: focal

radare2 5.6.3 27472 @ linux-x86-64 git.5.6.2

commit: d24dbb9fbb0b398a6a739847008ccef3ea7e687c

ASAN

```
#11 0x7f1a218f82c8 in r_core_file_do_load_for_io_plugin /home/ubuntu/fu
  #12 0x7f1a218f82c8 in r core bin load /home/ubuntu/fuzz/radare2/libr/cc
  #13 0x7f1a218f82c8 in r core bin load /home/ubuntu/fuzz/radare2/libr/cc
  #14 0x7f1a24a062ba in r main radare2 /home/ubuntu/fuzz/radare2/libr/mai
  #15 0x7f1a247a50b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.
  #16 0x560f17c179fd in start (/home/ubuntu/fuzz/radare2/binr/radare2/ra
0x62400012dd3f is located 0 bytes to the right of 7231-byte region [0x62400
allocated by thread T0 here:
  #0 0x560f17d02a48 in __interceptor_malloc (/home/ubuntu/fuzz/radare2/bi
  #1 0x7f1a210355c1 in r coresym cache element new /home/ubuntu/fuzz/rada
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/ubuntu/fuzz/radare2/1
Shadow bytes around the buggy address:
 =>0x0c488001dba0: 00 00 00 00 00 00 00[07]fa fa fa fa fa fa fa fa
 0x0c488001dbc0: fa fa
 0x0c488001dbf0: fa fa
Shadow byte legend (one shadow 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
 Poisoned by user:
                   f7
                                              Chat with us
 Container overflow:
                   fc
 Array cookie:
                   ac
                   I. I.
```

Intra object redzone: bb
ASan internal: fe
Left alloca redzone: ca

Right alloca redzone: cb Shadow gap: cc

==3022342==ABORTING



POC

./radare2 -qq -AA ./heap_overflow_poc

heap_overflow_poc

Impact

The bug causes the program reads data past the end of the intented buffer. Typically, this can allow attackers to read sensitive information from other memory locations or cause a crash.

CVE

CVE-2022-0713 (Published)

Vulnerability Type

CWE-122: Heap-based Buffer Overflow

Severity

Medium (5.3)

Visibility

Public

Status

Fixed

Found by



cnitlrt
@cnitlrt
master •

Chat with us

Fixed by



pancake

@trufae

maintainer

This report was seen 537 times

We are processing your report and will contact the **radareorg/radare2** team within 24 hours. 9 months ago

cnitIrt modified the report 9 months ago

We have contacted a member of the radareorg/radare2 team and are waiting to hear back 9 months ago

pancake validated this vulnerability 9 months ago

cnitIrt has been awarded the disclosure bounty

The fix bounty is now up for grabs

pancake marked this as fixed in 5.6.4 with commit a35f89 9 months ago

pancake has been awarded the fix bounty 🗸

This vulnerability will not receive a CVE x

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