

NULL Pointer Dereference in radareorg/radare2

0



Valid

Reported on Apr 13th 2022

Description

NULL pointer dereference in r_bin_ne_get_segments

Environment

Distributor ID: Ubuntu

Description: Ubuntu 20.04 LTS

Release: 20.04

Codename: focal

radare2 5.6.7 0 @ linux-x86-64 git.

commit: 5.6.7

Build

```
export CC=gcc CXX=g++ CFLAGS="-fsanitize=address -static-libasan" CXXFLAGS=-  
./configure && make
```

POC

```
radare2 -AA -qq ./poc
```

poc

ASAN

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AddressSanitizer:DEADLYSIGNAL

```
=====
==945410==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000002 (
==945410==The signal is caused by a READ memory access.
==945410==Hint: address points to the zero page.
#0 0x7f38cb2b3dc3 in r_bin_ne_get_segments /home/ubuntu/radare2-master/
#1 0x7f38caed7304 in r_bin_object_set_items /home/ubuntu/radare2-master
#2 0x7f38caed90ca in r_bin_object_new /home/ubuntu/radare2-master/libr/
#3 0x7f38caeca6f3 in r_bin_file_new_from_buffer /home/ubuntu/radare2-ma
#4 0x7f38cae85697 in r_bin_open_buf /home/ubuntu/radare2-master/libr/bi
#5 0x7f38cae86a6f in r_bin_open_io /home/ubuntu/radare2-master/libr/bir
#6 0x7f38cbcd2d2f in r_core_file_do_load_for_io_plugin /home/ubuntu/rac
#7 0x7f38cbcd2d2f in r_core_bin_load /home/ubuntu/radare2-master/libr/c
#8 0x7f38cbcd2d2f in r_core_bin_load /home/ubuntu/radare2-master/libr/c
#9 0x7f38ce9f89d2 in r_main_radare2 /home/ubuntu/radare2-master/libr/m
#10 0x7f38ce7940b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.
#11 0x55957465dabd in _start (/home/ubuntu/radare2-master/binr/radare2/
```

AddressSanitizer can not provide additional info.

SUMMARY: AddressSanitizer: SEGV /home/ubuntu/radare2-master/libr/../../libr/t
==945410==ABORTING



Impact

This vulnerability is capable of making the radare2 crash, thus affecting the availability of the system.

CVE

CVE-2022-1382

(Published)

Vulnerability Type

CWE-476: NULL Pointer Dereference

Severity

Medium (5.3)

Registry

Other

Affected Version

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5.6.7

Visibility

Public

Status

Fixed

Found by



cnitlrt

@cnitlrt

master ▼

Fixed by



pancake

@trufae

maintainer

This report was seen 544 times.

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

7 months ago

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

7 months ago

cnitlrt modified the report 7 months ago

pancake validated this vulnerability 7 months ago

cnitlrt has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

pancake marked this as fixed in **5.6.8** with commit **48f0ea** 7 months ago

pancake has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ❌

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this vulnerability will not receive a CVE 

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