

master

...

pocs_slides / advisory / MikroTik / CVE-2020-20249 / README.md

cq674350529 add CVE

History

1 contributor

46 lines (37 sloc) | 2.22 KB

...

CVE-2020-20249

Description

The resolver process suffers from a memory corruption vulnerability. By sending a crafted packet, an authenticated remote user can crash the resolver process due to invalid memory access.

Against stable 6.46.5, the poc resulted in the following crash dump.

```
# cat /rw/logs/backtrace.log
2020.06.19-10:32:37.4200:
2020.06.19-10:32:37.4200:
2020.06.19-10:32:37.4200: /nova/bin/resolver
2020.06.19-10:32:37.4200: --- signal=11 -----
2020.06.19-10:32:37.4200:
2020.06.19-10:32:37.4200: eip=0x7774c049 eflags=0x00010212
2020.06.19-10:32:37.4200: edi=0x080619d0 esi=0x7f8bd684 ebp=0x7f8bd5a8 esp=0x7f8bd59c
2020.06.19-10:32:37.4200: eax=0x00000001 ebx=0x777544ec ecx=0x08061c60 edx=0x08061c60
2020.06.19-10:32:37.4200:
2020.06.19-10:32:37.4200: maps:
2020.06.19-10:32:37.4200: 08048000-0805c000 r-xp 00000000 00:0c 995 /nova/bin/resolver
2020.06.19-10:32:37.4200: 776f1000-77726000 r-xp 00000000 00:0c 964 /lib/libuClibc-0.9.33.2.so
2020.06.19-10:32:37.4200: 7772a000-77744000 r-xp 00000000 00:0c 960 /lib/libgcc_s.so.1
2020.06.19-10:32:37.4200: 77745000-77754000 r-xp 00000000 00:0c 944 /lib/libc++.so
2020.06.19-10:32:37.4200: 77755000-7775d000 r-xp 00000000 00:0c 950 /lib/libubox.so
2020.06.19-10:32:37.4200: 7775e000-777aa000 r-xp 00000000 00:0c 946 /lib/libumsg.so
2020.06.19-10:32:37.4200: 777b0000-777b7000 r-xp 00000000 00:0c 958 /lib/ld-uClibc-0.9.33.2.so
2020.06.19-10:32:37.4200:
2020.06.19-10:32:37.4200: stack: 0x7f8be000 - 0x7f8bd59c
2020.06.19-10:32:37.4200: 08 d6 8b 7f b4 d5 8b 7f ec d5 8b 7f c8 d5 8b 7f f1 ef 04 08 ec d5 8b 7f 60 1c 06 08 08 d6 8b 7f
2020.06.19-10:32:37.4200: f1 16 05 08 ec d5 8b 7f 2e 00 00 00 08 d6 8b 7f 03 17 05 08 e8 71 72 77 04 d6 8b 7f 57 1b 7b 77
2020.06.19-10:32:37.4200:
2020.06.19-10:32:37.4200: code: 0x7774c049
2020.06.19-10:32:37.4200: 8b 10 01 c2 83 c2 04 52 83 c0 04 50 ff 75 08 e8
```

Affected Version

This vulnerability was initially found in stable 6.44.6, and was fixed in stable 6.47.

Timeline

- 2020/01/06 - reported the vulnerability to the vendor
- 2020/01/07 - the vendor reproduced and confirmed the vulnerability
- 2021/05/04 - CVE was assigned