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Re: Two vulnerabilities found in MikroTik's RouterOS

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From: O C <cq674350529 () gmail com>
Date: Tue, 4 May 2021 23:19:00 +0800
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[Update 2021/05/04] Two CVEs have been assigned to these vulnerabilities.

CVE-2020-20219: Mikrotik RouterOs 6.44.6 (long-term tree) suffers from a memory corruption vulnerability in the /nova/bin/igmp-proxy process. An authenticated remote attacker can cause a Denial of Service (NULL pointer dereference).

CVE-2020-20262: Mikrotik RouterOs before 6.47 (stable tree) suffers from an assertion failure vulnerability in the /ram/pckg/security/nova/bin/ipsec process. An authenticated remote attacker can cause a Denial of Service due to an assertion failure via a crafted packet.

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Q C <cq674350529 () qmail com> 于2020年8月13日周四 下午7:14写道:
      Advisory: two vulnerabilities found in MikroTik's RouterOS
       Details
       Product: MikroTik's RouterOS
Vendor URL: https://mikrotik.com/
Vendor Status: fixed version released
       Credit: Qian Chen(@cg674350529) of Qihoo 360 Nirvan Team
       Product Description
       RouterOS is the operating system used on the MikroTik's devices, such as switch, router and access point.
       Description of vulnerabilities
        1. NULL pointer dereference

    NULL pointer dereference
The igmpproxy process suffers from a memory corruption vulnerability. By
sending a crafted packet, an authenticated remote user can crash the
igmpproxy process due to NULL pointer dereference.

       Against stable 6.46.5, the poc resulted in the following crash dump.
                    # cat /rw/logs/backtrace.iog
2020.06.04-17:44:77.1200:
2020.06.04-17:44:77.1200:
2020.06.04-17:44:27.1200: /ram/pckg/multicast/nova/bin/igmpproxy
2020.06.04-17:44:27.1200: --- signal=11
                          cat /rw/logs/backtrace.log
    2020.06.04-17:44:27.12@0: /ram/pckg/multicast/nova/bin/igmpproxy
2020.06.04-17:44:27.12@0: --- signal-11
2020.06.04-17:44:27.12@0: eip=0x0805088d eflags=0x00010206
2020.06.04-17:44:27.12@0: edi=0x7fa9331c esi=0x7fa932b8
ebp=0x7fa932a8 esp=0x7fa9326c
2020.06.04-17:44:27.12@0: eax=0x080581bc ebx=0x00000000
2020.06.04-17:44:27.12@0: eax=0x080581bc ebx=0x000000000
2020.06.04-17:44:27.12@0: aps:
2020.06.04-17:44:27.12@0: aps:
2020.06.04-17:44:27.12@0: aps:
2020.06.04-17:44:27.12@0: aps:
2020.06.04-17:44:27.12@0: aps:
2020.06.04-17:44:27.12@0: 7770b000-77700000 r-xp 00000000 00:0c 964
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 77750000 r-xp 00000000 00:0c 966
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 77750000 r-xp 00000000 00:0c 964
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 77760000 r-xp 00000000 00:0c 956
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 77760000 r-xp 00000000 00:0c 956
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 77760000-77764000 r-xp 00000000 00:0c 958
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 77760000 r-xp 00000000 00:0c 958
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 1776a000-77764000 r-xp 00000000 00:0c 958
/1ib/libuclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 1776a000-77764000 r-xp 00000000 00:0c 958
/1ib/libc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 1776a000-77764000 r-xp 00000000 00:0c 958
/1ib/ld-uclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 1776a000-77764000 r-xp 000000000 00:0c 958
/1ib/ld-uclibc-0.9.33.2.so
2020.06.04-17:44:27.12@0: 1776a000-77764000 r-xp 000000000 00:0c 958
/1ib/ld-uclibc-0.9.33.2.so
        This vulnerability was initially found in long-term 6.44.6, and was fixed in stable 6.47.
       reachable assertion failureThe ipsec process suffers from an assertion failure vulnerability. There is a reachable assertion in the ipsec process. By sending a crafted packed an authenticated remote user can crash the ipsec process due to assertion
       Against stable 6.46.5, the poc resulted in the following crash dump.
                  # cat /rw/logs/backtrace.log
2020.06.04-18:25:16.04@0:
2020.06.04-18:25:16.04@0:
2020.06.04-18:25:16.04@0:
2020.06.04-18:25:16.04@0: /ram/pckg/security/nova/bin/ipsec
2020.06.04-18:25:16.04@0: --- signal=6
       2020.06.04-18:25:16.04@0:
2020.06.04-18:25:16.04@0:
2020.06.04-18:25:16.04@0:
edi=0x070000001 esi=0x77489200
ebp=0xf9f84450 esp=0xf9f8f448
2020.06.04-18:25:16.04@0:
eax=0x000000291 edx=0x00000006
2020.06.04-18:25:16.04@0:
                      2020.06.04-18:25:16.0400: maps: 2020.06.04-18:25:16.0400: 08048000-080b5000 r-xp 00000000 00:11 42
                      /ram/pckg/security/nova/bin/ipsec
2020.06.04-18:25:16.04@0: 77453000-77488000 r-xp 00000000 00:0c 964
```

/lib/libuclibc-0.9.33.2.so 2020.06.04-18:25:16.04@0: 7748c000-774a6000 r-xp 00000000 00:0c 960 /lib/libgcc_s.so.1 2020.06.04-18:25:16.04@0: 774a7000-774b6000 r-xp 00000000 00:0c 944 2020.06.04-18:25:16.04@0: 7/4a/000-7/4b6000 r-xp 00000000 00:0c 944 /1ib/libw++.so 2020.06.04-18:25:16.04@0: 774b7000-774b9000 r-xp 00000000 00:0c 959 /1ib/libdid-0.9.33.2.so 2020.06.04-18:25:16.04@0: 774b0000-774d0000 r-xp 00000000 00:1f 15 /ram/pckg/dhcp/lib/libudhcp.so 2020.06.04-18:25:16.04@0: 774d2000-774d8000 r-xp 00000000 00:0c 951 20:0.06.04-18:25:16.04@0: 774d2000-774d8000 r-xp 00000000 00:0c 951 71ib/1iburadius.ss 2020.06.04-18:25:16.0400: 774d9000-77524000 r-xp 00000000 00:0c 956 71ib/1ibss1.ss.1.0.0 2020.06.04-18:25:16.0400: 77528000-77530000 r-xp 00000000 00:0c 950 /lib/libubox.so 2020.06.04-18:25:16.04@0: 77531000-7757d000 r-xp 00000000 00:0c 946 /lib/libumsg.so 2020.06.04-18:25:16.04@0: 77580000-7759d000 r-xp 00000000 00:0c 947 /lib/libucrypto.so 2020.06.04-18:25:16.04@0: 7759e000-776fb000 r-xp 00000000 00:0c 954 This vulnerability was initially found in long-term 6.44.6, and was fixed in stable 6.47. Upgrade to the corresponding latest RouterOS tree version. References [1] https://mikrotik.com/download/changelogs/stable-release-tree

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Current thread:

Re: Two vulnerabilities found in MikroTik's RouterOS Q C (May 04)

<Possible follow-ups>
Re: Two vulnerabilities found in MikroTik's RouterOS Q C (May 04) Re: Two vulnerabilities found in MikroTik's RouterOS Q C (May 04) Re: Two vulnerabilities found in MikroTik's RouterOS Q C (May 07)

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