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Re: Three vulnerabilities found in MikroTik's RouterOS
From: O C <cq674350529 () gmail com>
Date: Mon, 30 May 2022 22:02:27 +0800
[update 2022/05/30] Two CVEs have been assigned to these vulnerabilities.
CVE-2021-36613: Mikrotik RouterOs before stable 6.48.2 suffers from a memory corruption vulnerability in the ptp process. An authenticated remote attacker can cause a Denial of Service (NULL pointer dereference).
CVE-2021-36614: Mikrotik RouterOs before stable 6.48.2 suffers from a memory corruption vulnerability in the trO69-client process. An authenticated remote attacker can cause a Denial of Service (NULL pointer dereference).
Q C <cq674350529 () qmail com> 于2021年7月6日周二 19:26写道:
   Advisory: three vulnerabilities found in MikroTik's RouterOS
   Details
   Product: MikroTik's RouterOS
Vendor URL: https://mikrotik.com/
Vendor Status: fixed version released
   CVE: -
Credit: Qian Chen(@cq674350529) from Codesafe Team of Legendsec at
Qi'anxin Group
   Product Description
   RouterOS is the operating system used on MikroTik's devices, such as switch, router and access point.
   Description of vulnerabilities
   The netwatch process suffers from an assertion failure vulnerability.

There is a reachable assertion in the netwatch process. By sending a crafted packet, an authenticated remote user can crash the netwatch process due to assertion failure.
   Against stable 6.47, the poc resulted in the following crash dump.
        # cat /rw/logs/backtrace.rog
2020.06.29-14:77:25.5280:
2020.06.29-14:27:25.5280:
2020.06.29-14:27:25.5280: /ram/pckg/advanced-tools/nova/bin/netwatch
2020.06.29-14:27:25.5280: --- signal=6
          # cat /rw/logs/backtrace.log
```

This vulnerability was initially found in stable 6.46.2, and it seems that the latest stable version 6.48.3 still suffers from this vulnerability.

NULL pointer dereference
 The tr069-client process suffers from a memory corruption vulnerability.
 By sending a crafted packet, an authenticated remote user can crash the tr069-client process due to NULL pointer dereference.

Against stable 6.47, the poc resulted in the following crash dump. 2020.06.10-17:04:17.63@0: eip=0x0805a185 eflags=0x00010206 2020.06.10-17:04:17.63@0: edi=0x7ff74a04 esi=0x7ff74a04 2020.06.10-17:04:17.6380: edi=0x7ff74a04 esi=0x7ff74a04 ebp=0xfff74988 esp=0xfff7497c 2020.06.10-17:04:17.6380: eax=0x00000000 ebx=0x080a9290 ecx=0x76324ec edx=0x765187c 2020.06.10-17:04:17.6380: aax=0x00000000 ebx=0x080a9290 e2x=0x0.06.10-17:04:17.6380: maps: 2020.06.10-17:04:17.6380: maps: 2020.06.10-17:04:17.6380: maps: 2020.06.10-17:04:17.6380: maps: 2020.06.10-17:04:17.6380: maps: 2020.06.10-17:04:17.6380: paps: 2020.06.10-17:04:17.6380: /lib/libgcc s.so.1 2020.06.10-17:04:17.63@0: 77683000-77692000 r-xp 00000000 00:0c 945

```
/lib/libuc++.so
2020.06.10-17:04:17.63@0: 77693000-7769d000 r-xp 00000000 00:0c 963
/lib/libm-0.9.33.2.so
2020.06.10-17:04:17.63@0: 7769f000-776bc000 r-xp 00000000 00:0c 948
                      /lib/libucrypto.so
2020.06.10-17:04:17.63@0: 776bd000-776c0000 r-xp 00000000 00:0c 954
                      /lib/libxml.so
2020.06.10-17:04:17.63@0: 776c1000-7770d000 r-xp 00000000 00:0c 947
                      /lib/libumsg.so
2020.06.10-17:04:17.63@0: 77710000-7771b000 r-xp 00000000 00:0c 955
                      /lib/libuhttp.so
2020.06.10-17:04:17.63@0: 7771c000-77724000 r-xp 00000000 00:0c 951
                      /lib/libubox.so
2020.06.10-17:04:17.63@0: 77728000-7772f000 r-xp 00000000 00:0c 960
      2020.06.10-17:04:17.6380: 77728000-7772f000 r-xp 00000000 00:0c 960 //lib/ld-uclibc-0.9.33.2.so 2020.06.10-17:04:17.6380: 2020.06.10-17:04:17.6380: stack: 0x7ff75000 - 0x7ff7497c 2020.06.10-17:04:17.6380: stack: 0x7ff75000 - 0x7ff7497c 2020.06.10-17:04:17.6380: 10 a0 08 08 40 45 72 77 90 92 0a 08 b8 49 f7 7f 76 7a 17 79 90 92 0a 08 44 48 f7 7f 05 00 00 00 2020.06.10-17:04:17.6380: 28 4a f7 7f b4 49 f7 7f 40 4b 72 77 88 5b 09 08 40 4b 72 77 80 4d f7 7f 04 4a f7 7f 28 4a f7 7f 2020.06.10-17:04:17.6380: 28 4a f7 7f 28 4a f7 7f 2020.06.10-17:04:17.6380: code: 0x805a185 2020.06.10-17:04:17.6380: cf 30 6a 01 56 e8 81 49 ff ff 83 c4 0c ff 73 24
       This vulnerability was initially found in stable 6.47, and was fixed in stable 6.48.2.
        3. NULL pointer dereference
The ptp process suffers from a memory corruption vulnerability. By sending
a crafted packet, an authenticated remote user can crash the ptp process
due to NULL pointer dereference.
        Against stable 6.48.1, the poc resulted in the following crash dump.
                      # Cat / Tw/ Luga / Sacana
2021.02.08-12:13:09.33@0:
2021.02.08-12:13:09.33@0: /nova/bin/ptp
2021.02.08-12:13:09.33@0: --- signal=11
    2021.02.08-12:13:09.3380: /nova/bin/ptp
2021.02.08-12:13:09.3380: --- signal=11

2021.02.08-12:13:09.3380: eip=0x8050abb eflags=0x00010202
2021.02.08-12:13:09.3380: eip=0x8050abb eflags=0x00010202
2021.02.08-12:13:09.3380: edi=0x76d5ee94 esi=0x0805be48
ebp=0x7fd5ee18 esp=0x7fd5ee18
2021.02.08-12:13:09.3380: eax=0x00000000 ebx=0x776f5b40
ecx=0x0805c6a8 edx=0x00000001
2021.02.08-12:13:09.3380: maps:
2021.02.08-12:13:09.3380: 08048000-08058000 r-xp 00000000 00:0c 1067
/nova/bin/ptp
2021.02.08-12:13:09.3380: 7767d000-776b2000 r-xp 00000000 00:0c 966
/iib/libuclibe-0.9.33.2.so
2021.02.08-12:13:09.3380: 776d000-776b2000 r-xp 00000000 00:0c 962
/iib/libuclibe-0.9.33.2.so
2021.02.08-12:13:09.3380: 776d1000-776e0000 r-xp 00000000 00:0c 963
/iib/libucl-so.01
2021.02.08-12:13:09.3380: 776d1000-776e0000 r-xp 00000000 00:0c 963
/iib/libucl-so.01
2021.02.08-12:13:09.3380: 776e1000-776eb000 r-xp 00000000 00:0c 963
/iib/libucl-so.01
2021.02.08-12:13:09.3380: 776f6000-776f5000 r-xp 00000000 00:0c 961
/iib/libubox.so
2021.02.08-12:13:09.3380: 776f6000-77742000 r-xp 00000000 00:0c 967
/iib/libungs.so
2021.02.08-12:13:09.3380: 77748000-77742000 r-xp 00000000 00:0c 960
/iib/libungs.so
2021.02.08-12:13:09.3380: 776f6000-77742000 r-xp 00000000 00:0c 960
/iib/libungs.so
2021.02.08-12:13:09.3380: 776f6000-77742000 r-xp 00000000 00:0c 960
/iib/ld-uclibe-0.9.33.2.so
2021.02.08-12:13:09.3380: 77748000-77745000 r-xp 00000000 00:0c 960
/iib/ld-uclibe-0.9.33.2.so
2021.02.08-12:13:09.3380: 77748000-77745000 r-xp 00000000 00:0c 960
/iib/ld-uclibe-0.9.33.2.so
2021.02.08-12:13:09.3380: 77748000-77745000 r-xp 00000000 00:0c 960
/iib/ld-uclibe-0.9.33.2.so
2021.02.08-12:13:09.3380: 54ck: 0x7fd5f000 - 0x7fd5ee18
2021.02.08-12:13:09.3380: 54ck: 0x7fd5f000 - 0x7fd5ee18
2021.02.08-12:13:09.3380: 58 ed d5 7f 0 0 0 6 f0 77 48 be 05 78 4 ed 57 f6 64 16 f7 79 4 ed 57 f0 0 0 f6 0 8
2021.02.08-12:13:09.3380: 8b 10 89 45 08 8b 42 18 5d ff e0 55 89 e5 31 c0
        This vulnerability was initially found in stable 6.48.1, and was fixed in stable 6.48.2.
        Solution
       Upgrade to the corresponding latest RouterOS tree version.
        References
        [1] https://mikrotik.com/download/changelogs/stable-release-tree
Regards,
Qian
Sent through the Full Disclosure mailing list
 https://nmap.org/mailm
Web Archives & RSS: ht
By Date By Thread
Current thread:
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Re: Three vulnerabilities found in MikroTik's RouterOS Q C (Jun 03)

