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    Three vulnerabilities found in MikroTik's RouterOS
   From: Q C <cq674350529 () gmail com>
Date: Tue, 6 Jul 2021 19:26:29 +0800
    Advisory: three vulnerabilities found in MikroTik's RouterOS
   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
    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.log
2020.06.29-14:27:25.52@0:
2020.06.29-14:27:25.52@0:
2020.06.29-14:27:25.52@0: /ram/pckg/advanced-tools/nova/bin/netwatch
2020.06.29-14:27:25.52@0: --- signal=6
                 2020.06.29-14:27:25.52@0:
2020.06.29-14:27:25.52@0: eip=0x776b855b eflags=0x00000246
2020.06.29-14:27:25.52@0: edi=0xffffffff esi=0x776c0200 ebp=0x7feea6a0
  2020.06.29-14:27:25.5280: edi=0xffffffff esi=0x776c0200 ebp=0x7feeabau esp=0x7feea698  
2020.06.29-14:27:25.5280: eax=0x00000000 ebx=0x00000008 ecx=0x00000008  
edx=0x000000006  
2020.06.29-14:27:25.5280: maps:  
2020.06.29-14:27:25.5280: maps:  
2020.06.29-14:27:25.5280: maps:  
2020.06.29-14:27:25.5280: 7768a000-0804d000 r-xp 00000000 00:10 14  
/ram/pckg/advanced-tools/nova/bin/netwatch  
2020.06.29-14:27:25.5280: 7768a000-776bf000 r-xp 00000000 00:0c 966  
/lib/libuClibc-0.9.33.2.so  
2020.06.29-14:27:25.5280: 776c3000-776dd000 r-xp 00000000 00:0c 962  
/lib/libucc s.so.1
               /lib/libgcc s.so.1 2020.06.29-14:27:25.52@0: 776de000-776ed000 r-xp 00000000 00:0c 945
               /lib/libuc++.sc
                   2020.06.29-14:27:25.52@0: 776ee000-7773a000 r-xp 00000000 00:0c 947
               /lib/libumsg.so
2020.06.29-14:27:25.52@0: 77740000-77747000 r-xp 00000000 00:0c 960
   2020.06.29-14:27:25.5280: 77740000-77747000 r-xp 00000000 00:0c 960
/lib/ld-uclibec-0,9.33.2.so
2020.06.29-14:27:25.5280:
2020.06.29-14:27:25.5280: 00 00 6c 77 00 00 6c 77 d8 a6 ee 7f 77 40 6b
70 60 00 00 00 00 6c 77 20 00 00 00 00 00 00 00
2020.06.29-14:27:25.5280: 00 00 6c 77 38 a7 ee 7f d4 a6 ee 7f f4 aa 73
77 b8 a6 ee 7f f4 an 73 77 bc b0 ee 7f ff ff ff
2020.06.29-14:27:25.5280:
2020.06.29-14:27:25.5280:
2020.06.29-14:27:25.5280:
2020.06.29-14:27:25.5280:
                  2020.06.29-14:27:25.52@0: code: 0x776b855b
2020.06.29-14:27:25.52@0: 5b 3d 00 f0 ff ff 76 0e 8b 93 cc ff ff ff f7
   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.
    2. NULL pointer dereference

    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.
                    # cat /rw/logs/backtrace.log
                 # Cat /1w/logs/sacktatate.log
2020.06.10-17:04:17.6380:
2020.06.10-17:04:17.6380:
2020.06.10-17:04:17.6380: /ram/pckg/tr069-client/nova/bin/tr069-client
2020.06.10-17:04:17.6380: --- signal=11
2020.06.10-17:04:17.6380: /ram/pckg/tr069-client/nova/bin/tr069-client 2020.06.10-17:04:17.6380: --- signal=11

2020.06.10-17:04:17.6380: eip=0x0805a185 eflags=0x00010206 2020.06.10-17:04:17.6380: eip=0x0805a185 eflags=0x00010206 2020.06.10-17:04:17.6380: eip=0x080ff74a04 esi=0x7ff74a04 ebp=0x7ff74978 2020.06.10-17:04:17.6380: eax=0x000000000 ebx=0x080a9290 ecx=0x776924ec exx=0x7769187c 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: 77627000-77664000 r-xp 00000000 00:00 966 /ibi/jibuclibe-0.9.33.2.so 2020.06.10-17:04:17.6380: 77628000-77682000 r-xp 00000000 00:0c 962 /ibi/jibuclibe-0.9.33.2.so 2020.06.10-17:04:17.6380: 77683000-77692000 r-xp 00000000 00:0c 945 /ibi/jibuc-4:so 2020.06.10-17:04:17.6380: 77693000-77692000 r-xp 00000000 00:0c 963 /ibi/jibuc-4:so 2020.06.10-17:04:17.6380: 77695000-77694000 r-xp 00000000 00:0c 963 /ibi/jibuc-19:0d-17:04:17.6380: 77695000-7769000 r-xp 00000000 00:0c 963 /ibi/jibuc-19:0d-17:04:17.6380: 77695000-7769000 r-xp 00000000 00:0c 963 /ibi/jibuc-19:0s 2020.06.10-17:04:17.6380: 77695000-7760000 r-xp 00000000 00:0c 963 /ibi/jibuc-19:0s 2020.06.10-17:04:17.6380: 77695000-7760000 r-xp 00000000 00:0c 948 /ibi/jibuc-19:0s 2020.06.10-17:04:17.6380: 77661000-77760000 r-xp 00000000 00:0c 954 /ibi/jibmal.so 2020.06.10-17:04:17.6380: 77661000-77760000 r-xp 00000000 00:0c 957 /ibi/jibums.so 2020.06.10-17:04:17.6380: 77710000-77710000 r-xp 00000000 00:0c 955 /ibi/jibububcx.so 2020.06.10-17:04:17.6380: 77710000-77724000 r-xp 00000000 00:0c 955 /ibi/jibububcx.so 2020.06.10-17:04:17.6380: 77710000-77724000 r-xp 00000000 00:0c 955 /ibi/jibubbcx.so 2020.06.10-17:04:17.6380: 77710000-77724000 r-xp 00000000 00:0c 951 /ibi/jibubcx.so 2020.06.10-17:04:17.6380: 77710000-77724000 r-xp 00000000 00:0c 951 /ibi/jibubcx.so 2020.06.10-17:04:17.6380: 77710000-77724000 r-xp 00000000 00:0c 951 /ibi/jibubcx.so 2020.06.10-17:04:17.6380: 77728000-77726000 r-xp 00000000 00:0c 950 /ibi/jibubcx.so 2020.06.10-1
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/lib/ld-uClibc-0.9.33.2.so
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 7c fa 71 77 90 92 0a 08 04 4a 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
84 04 b7 27 78 04 d4 77 7f 04 4a f7 7f 28 8a f7 7f
2020.06.10-17:04:17.6380: 2020.06.10-17:04:17.6380: code: 0x805a185
2020.06.10-17:04:17.6380: ff 30 6a 01 56 e8 81 49 ff ff 83 c4 0c ff 73
 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 /rw/logs/backtrace.log
                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
                                                                                                              __u/oin/ptr
--- signal=11
               2021.02.08-12:13:09.3380:

2021.02.08-12:13:09.3380: eip=0x08050abb eflags=0x00010202

2021.02.08-12:13:09.3380: edi=0x7fd5ee94 esi=0x0805be48 ebp=0x7fd5ee18

=0x7fd5ee18

2021.02.08-12:13:09.3380: eax=0x00000000 ebx=0x776f5b40 ecx=0x0805c6a8
 2021.02.08-12:13:09.33@0: maps:
2021.02.08-12:13:09.33@0: 08048800-08058000 r-xp 00000000 00:0c 1067
/nova/bin/ptp
2021.02.08-12:13:09.33@0: 7767d000-776b2000 r-xp 00000000 00:0c 966
/lib/libuclibc-0.9.33.2.so
2021.02.08-12:13:09.33@0: 776b6000-776d0000 r-xp 00000000 00:0c 962
/lib/libuclibc-0.s.so.1
2021.02.08-12:13:09.33@0: 776d1000-776e0000 r-xp 00000000 00:0c 945
/lib/libuc+i.so
2021.02.08-12:13:09.33@0: 776e1000-776eb000 r-xp 00000000 00:0c 963
/lib/libuc+i.so
2021.02.08-12:13:09.33@0: 776ed000-776f5000 r-xp 00000000 00:0c 963
/lib/libuc-i.so.32.so
2021.02.08-12:13:09.33@0: 776ed000-776f5000 r-xp 00000000 00:0c 951
/lib/libuox.so
2021.02.08-12:13:09.33@0: 77748000-77742000 r-xp 00000000 00:0c 947
/lib/libunsy.so
2021.02.08-12:13:09.33@0: 77748000-7774f000 r-xp 00000000 00:0c 960
/lib/ld-uClibc-0.9.33.2.so
2021.02.08-12:13:09.33@0: 2021.02.08-12:13:09.33@0: 2021.02.08-12:13:09.33@0: 2021.02.08-12:13:09.33@0: 2021.02.08-12:13:09.33@0: 58 ex 65 7f 00 00 68 63 7f 7f 94 ex 65
7f 05 00 00 00 86 3c 7f 7f 96 ef d5 7f 0c 00 fe 08
2021.02.08-12:13:09.33@0: 88 ex d5 7f 0c 50 fe 77 a0 ff d5 7f 94 ex d5
7f b8 ex d5 7f 16 4f 6f 7f 94 ex d5 7f a0 ff d5 7f 20 ff d5 7f 94 ex d5
7f b8 ex d5 7f 16 4f 6f 7f 94 ex d5 7f a0 ff d5 7f 20 ff d5 58 9e 5 3f
2021.02.08-12:13:09.33@0: 88 ex d5 7f a0 ff d5 7f 20 ff e0 55 89 e5 3f
2021.02.08-12:13:09.33@0: 88 b10 89 45 08 88 b42 18 5d ff e0 55 89 e5 3f
2021.02.08-12:13:09.33@0: 88 b10 89 45 08 88 b42 18 5d ff e0 55 89 e5 3f
 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.
   [1] https://mikrotik.com/download/changelogs/stable-release-tree
  Sent through the Full Disclosure mailing list https://nmap.org/mailman/listinfo/fulldisclosu
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/lib/ld-uClibc-0.9.33.2.so

By Date By Thread

Current thread:

Three vulnerabilities found in MikroTik's RouterOS Q C (Jul 06)

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