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Tenda AC21(V16.03.08.15) contains Stack Buffer Overflow Vulnerability

overview

- Manufacturer's website information: <https://www.tenda.com.cn/>
- Firmware download address: <https://www.tenda.com.cn/download/detail-3419.html>

product information

Tenda A21(V16.03.08.15), latest version of simulation overview:

AC21 升级软件 V16.03.08.15[立即下载](#)

关联产品: AC21 更新日期: 2022/7/4

AC21V1.0升级说明
硬件版本: V1.0

description

1. Vulnerability Details

Tenda AC21(V16.03.08.15) contains a stack overflow vulnerability in file `/bin/httpd`, function `formSetVirtualSer`

Attackers can cause this vulnerability via parameter `list`

In function `formSetVirtualSer`, it calls `save_virtualser_data` and vulnerability is in this function.

```
memset(v4, 0, sizeof(v4));  
v2 = 0;  
v3 = websGetVar(a1, "list", &unk_4DAB54);  
save_virtualser_data("adv.virtualser", (const char *)v3, '~');// 1  
if ( CommitCfm() )  
{  
    sprintf(v4, "advance_type=%d", 2);  
    send_msg_to_netctrl(5, v4);  
}  
else  
{
```

In function `save_virtualser_data`, it calls `sscanf` to read strings in `v9` (`a2`) to parameter on the stack without checking its length, so there is a buffer overflow vulnerability.


```
Reaped pid = 4787
argv[0] = httpd
httpd
```

Yes:

```
***** WeLoveLinux*****
```

```
***** welcome to *****
[httpd][debug]-----webs.c,158
httpd listen ip = 192.168.0.1 port = 80
webs: Listening for HTTP requests at address 192.168.0.1
_br_brc_notify 3465: the bridge add fdb failed
_br_brc_notify 3467: group = 3, type = 28, fdb->is_local = 1
```

```
4468 root      0:00 [kworker/0:2]
4643 root      0:00 [kworker/0:0]
4779 root      0:00 sntp -z 28800 -t 86400
4787 root      0:00 httpd
4800 root      0:00 ps
~ # ps
```

```
4102 root      0:00 dnsmasq_wan1 -c /etc/wan1.dnsmasq.conf -M 1 eth1 -n linux-e00f153
4189 root      0:00 dnrd --cache=2000:4000 -R /etc/dnrd -s 172.26.26.3 -s
4273 root      0:00 miniupnpd -f /etc/miniupnpd.config
4828 root      0:00 [kworker/0:2]
4929 root      0:00 sntp -z 28800 -t 86400
5026 root      0:00 [kworker/0:0]
5030 root      0:00 httpd
5040 root      0:00 ps
```