

```
2 {
 3
    int v3; // [sp+18h] [+18h]
    char **i; // [sp+1Ch] [+1Ch]
 4
    int v5; // [sp+20h] [+20h]
int v6; // [sp+28h] [+28h]
 6
   char cookie buffer[64]; // [sp+3Ch] [+3Ch] BYREF
char v8[256]; // [sp+7Ch] [+7Ch] BYREF
   char *v9[7]; // [sp+17Ch] [+17Ch] BYREF
 9
10
11
    v6 = 0;
12
    memset(v8, 0, sizeof(v8));
    v9[0] = "login.html";
13
    v9[1] = "index.html";
    v9[2] = "error.html";
15
    v9[3] = "login_ie.html";
v9[4] = "wizard.html";
16
17
18
    v9[5] = 0;
    v3 = time(0);
19
20
   for ( i = v9; *i; ++i )
21
       22
23
24
25
26
         return 0;
27
       }
28
29 strcpy(v8, **( DWORD **)(a1 + 272));
30 if ( ws get cookie(a1, "SESSION ID", cookie buffer) )
31
      goto LABEL_9;
32
    v5 = form_get_idx_by_sessionid(fl_sess, v3, cookie_buffer);
33
   if ( v5 != -1 )
34
35
       iLOGIN_INDEX = v5;
       fl_sess[27 * v5 + 25] = v3;
36
37
       v6 = 1;
38
    if ( v6 )
39
40
      return 0;
41 LABEL 9:
    sprintf(a2, "http://%s/index.html", v8);
42
43
    return 1;
44 }
```

1 int fastcall checkLoginUser(int a1, int a2)

In ws_get_cookie function, strstr gets the location of SESSION_ID and then strcpy the content after = to the buffer. If the length of the data exceeds 64 , stack overflow will occur.

```
1 int __fastcall ws_get_cookie(int a1, int key_word, char *buffer)
 2 {
    _BYTE *v4; // [sp+18h] [+18h]
_BYTE *v5; // [sp+18h] [+18h]
_BYTE *v6; // [sp+18h] [+18h]
    _BYTE *i; // [sp+1ch] [+1ch]
int v8; // [sp+20h] [+20h]
int v9; // [sp+24h] [+24h]
     char v10[128]; // [sp+28h] [+28h] BYREF
    memset(v10, 0, sizeof(v10));
if (!*(_DWORD *)(a1 + 376))
11
12
      return 1;
13
     v9 = *(_DWORD *)(a1 + 292);
14
    if (!v9)
15
16
      return 1;
    v8 = strstr(v9, key_word);
if ( !v8 )
17
18
19
     for ( i = (_BYTE *)(v8 + strlen(key_word)); *i == ' ' || *i == '\t'; ++i )// move position
21
22
     if ( *i == '=' )
23
      strcpy(buffer, i + 1);
v4 = (_BYTE *)strstr(buffer, "\r\n");
24
                                                               // overflow
25
                                                               // make \r = 0
       if ( v4 )
26
27
          *v4 = 0;
       v5 = (_BYTE *)strchr(buffer, '\n');
28
29
30
31
       v6 = (_BYTE *)strchr(buffer, ';');
32
       if ( v6 )
33
          *v6 = 0;
       strlen(buffer);
34
35
36
     return 0;
37 }
```

POC

Sending the following GET request will cause the web server to crash.



CVE info

CVE-2021-35325