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# TOTOLink N350RT V9.3.5u.6139\_B20201216 has a stack overflow vulnerability

## Overview

- Manufacturer's website information: <https://www.totolink.net/>
- Firmware download address :  
[https://www.totolink.net/home/menu/detail/menu\\_listtpl/download/id/206/ids/36.htm](https://www.totolink.net/home/menu/detail/menu_listtpl/download/id/206/ids/36.htm)

## Product Information

TOTOLink N350RT V9.3.5u.6139\_B20201216 router, the latest version of simulation overview:

NO	Name	Version	Updated	Download
1	N350RT_Firmware	V9.3.5u.5812_B20200414	2020-07-28	
2	N350RT_Datasheet	Ver1.0	2020-08-09	
3	N350RT_Firmware	V9.3.5u.6095_B20200916	2020-09-24	
4	N350RT_Firmware	V9.3.5u.6139_B20201216	2020-12-30	

## Vulnerability details

```

nvram_set_int("rt_sta_auto", 0);
nvram_set_int("wl_mode_x", 0);
nvram_set_int("wl_sta_wisp", 0);
nvram_set_int("wl_sta_auto", 0);
nvram_set_int("crpc_enable", 0);
if ( strcmp(Var, "gw") )
{
    if ( !strcmp(Var, "br") )
    {
        nvram_set("wan_route_x", "IP_Bridged");
        nvram_set_int("sw_mode", 3);
        nvram_set_int("networkmap_fullscan", 0);
        nvram_set_int("dhcp_enable_x", 0);
        nvram_set("lan_proto_x", "1");
        nvram_set("rt_guest_lan_isolate", &word_43908C);
        nvram_set("wl_guest_lan_isolate", &word_43908C);

```

LABEL\_19:

```
sub_4253F4(a1);
```

```
sub_426B50(a1);
```

```
sub_426810(a1);
```

```
goto LABEL_20;
```

```

}
if ( !strcmp(Var, "rpt") )

```

```
1 int __fastcall sub_4253F4(int a1)
```

```
2 {
```

```
3     int String; // $v0
```

```
4
```

```
5     String = cJSON_CreateString("1");
```

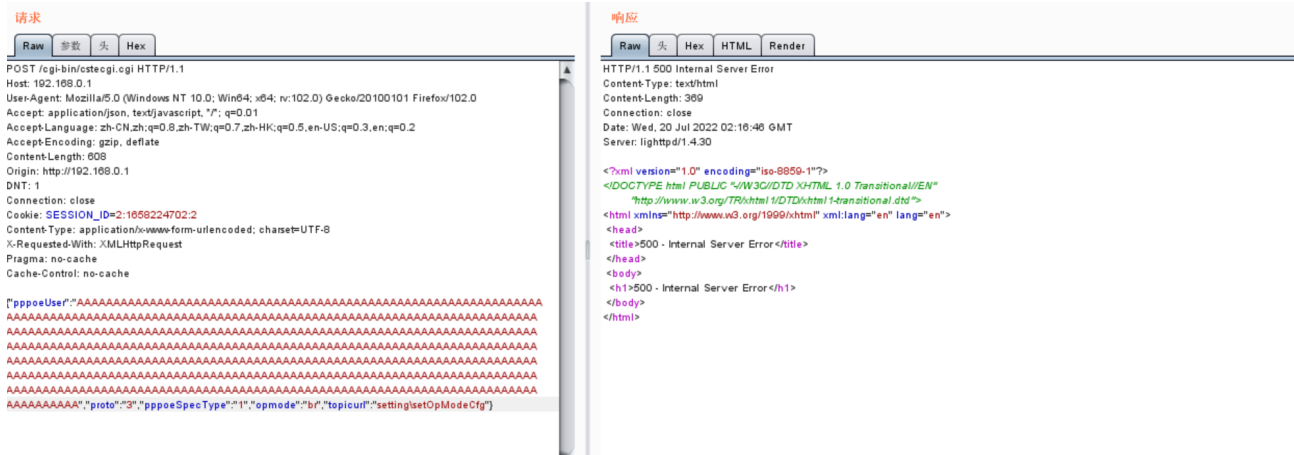
```
5     cJSON_AddItemToObject(a1, "switchOpMode", String);
```

```
7     sub_4241E0(a1);
```

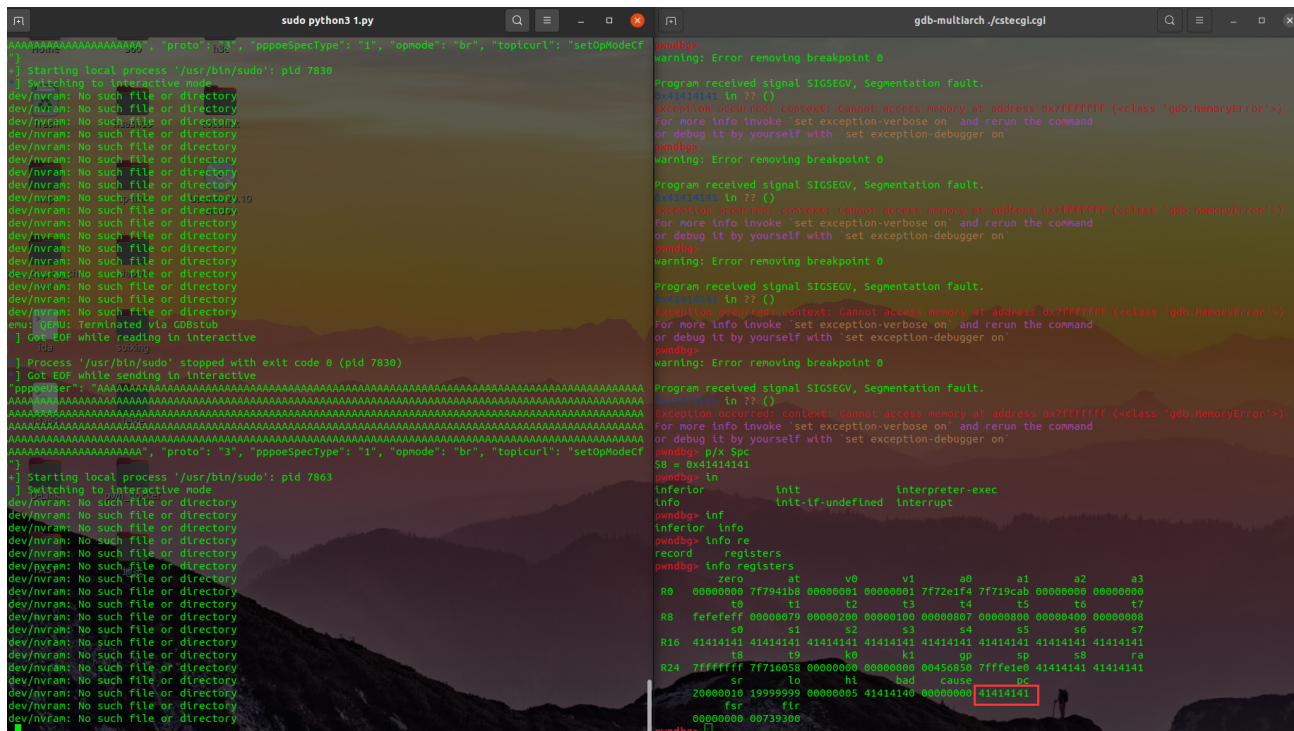
```
3     return 1;
```

```
9 }
```





The above figure shows the POC attack effect



As shown in the figure above, we can hijack PC registers.

```
BusyBox v1.24.2 (2020-12-02 18:57:43 CST) built-in shell (ash)
Enter 'help' for a list of built-in commands.
```

```
/ # ls -l
drwxrwxr-x  2 1000      1000      4096 Jul 19 22:40 bin
drwxrwxr-x  3 1000      1000      4096 Dec  2  2020 dev
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 etc
drwxrwxr-x  4 1000      1000      4096 Dec  2  2020 etc_ro
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 home
lrwxrwxrwx  1 1000      1000           7 Dec  2  2020 init -> sbin/rc
drwxrwxr-x  3 1000      1000      4096 Dec  2  2020 lib
drwxrwxr-x  3 1000      1000      4096 Dec  2  2020 lighttp
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 media
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 mnt
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 opt
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 proc
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 sbin
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 sys
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 tmp
drwxrwxr-x  9 1000      1000      4096 Dec  2  2020 usr
drwxrwxr-x  2 1000      1000      4096 Dec  2  2020 var
drwxrwxr-x  9 1000      1000      4096 Dec  2  2020 www
/ #
```

Finally, you can write exp to get a stable root shell without authorization.