GoldenEye_THM

Enumuration

- # We see a login page at /sev-home but it requires password and name
- # A terminal.js file is being loaded at main page so looking at the script we see two potential username s,BOris and natalya
- # Boris password is encode and commented so we decode it and password is InvincibleHack3r
- # AFter logging in we see that we require using mail system to get admin usge
- # so we tried to login pop3 server reusing the credentials but they dont work so we bruteforce and we get pop3 password as secret1!
- # Now we reserch how to interact with pop server
- # we get that there are three messages for boris and we read them all POP3:55007
- # Now we enumrate other users and brutefroce them
- # Natalya password is cracked and it is bird
- # WE get xenia credentials in none of natalya mails
- #we also get a vhost severnaya-station.com so we add it in /etc/hosts
- # we have a directory /gnocertdir
- # As User xenia is not on mail server we then try the website
- # The main website is same but to get to /gnocertdir we had to add this ip to our hosts
- # Now we login as xenia on webserver
- # A user doak is found so we try to crack doak pop3 password and it is goat
- # we find doaks web creds in an inbox mail
- # After logging in we find a secret text file which says that admin creds are inside a jpg file at location /dir007key/for-007.jpg
- # we get this file and use exiftool and it give us password for admin in encoded value

Nmap

PORT STATE SERVICE VERSION 25/tcp open smtp Postfix smtpd

| smtp-commands: ubuntu, PIPELINING, SIZE 10240000, VRFY, ETRN, STARTTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN,

|_ssl-date: TLS randomness does not represent time 80/tcp open http Apache httpd 2.4.7 ((Ubuntu))

|_http-server-header: Apache/2.4.7 (Ubuntu) |_http-title: GoldenEye Primary Admin Server

5006/tcp closed wsm-server

55007/tcp open pop3 Dovecot pop3d

|_pop3-capabilities: STLS PIPELINING SASL(PLAIN) UIDL AUTH-RESP-CODE TOP USER RESP-CODES CAPA

|_ssl-date: TLS randomness does not represent time

Aggressive OS guesses: Linux 3.10 - 3.13 (95%), ASUS RT-N56U WAP (Linux 3.4) (95%), Linux 3.16 (95%), Linux 3.1 (93%), Linux 3.2 (93%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (92%), Linux 3.10 (92%), Linux 3.12 (92%), Linux 3.19 (92%), Linux 3.2 - 4.9 (92%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 4 hops

TRACEROUTE (using port 5006/tcp)

HOP RTT ADDRESS 1 207.74 ms 10.4.0.1

2 ... 3

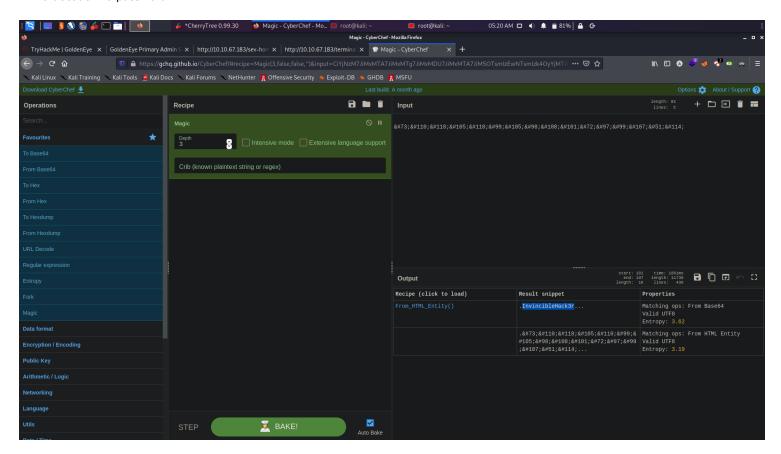
4 464.01 ms 10.10.67.183

OS and Service detection performed. Please report any incorrect results at $\frac{https://nmap.org/submit/}{nmap.org/submit/}$. Nmap done: 1 IP address (1 host up) scanned in 76.31 seconds

SMTP:25

HTTP:80

- # We have a login at /sev-home
- # we get Boris password in terminal.js file
- # we decode the password



#

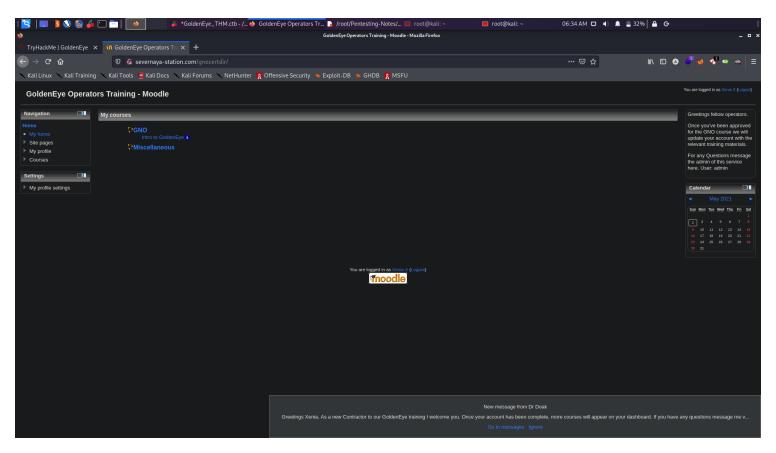
Terminal.js

#

#

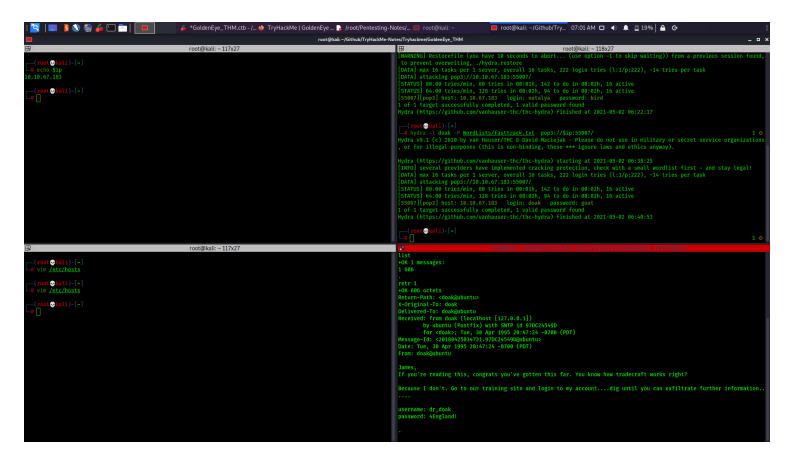
Xenia webserver

AFter mail enumuration we find a hidden dir and login as xenia creds



doak webserver

- # We bruteforced doak mail server and logged in
- # We read a email and get his credentials for webserver

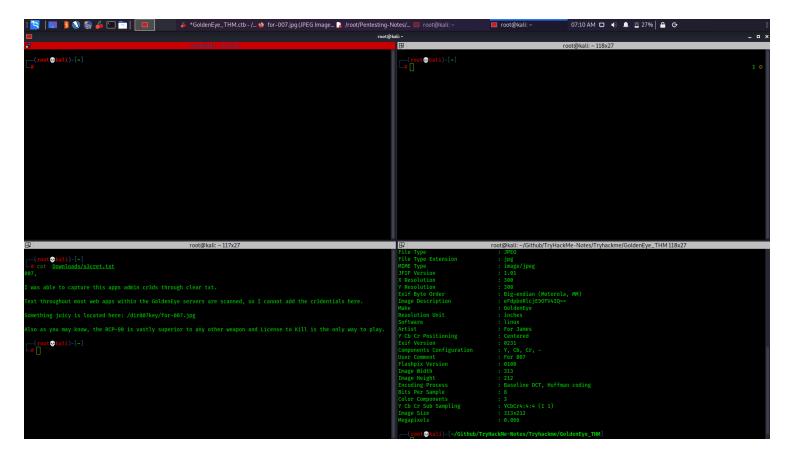


#

Admin webserve

In doak dashboard we found a tetx file saying admin creds are hidden in a picture in a direcorey

we wget the image and exiftool it

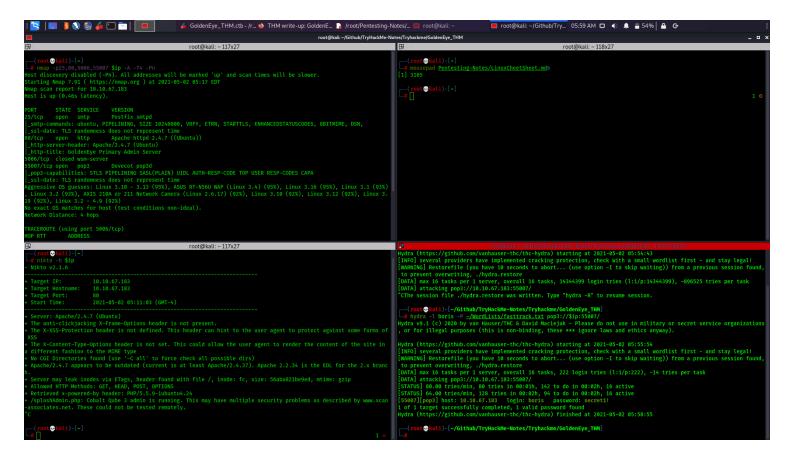


we get the admin password by base64 decoding it

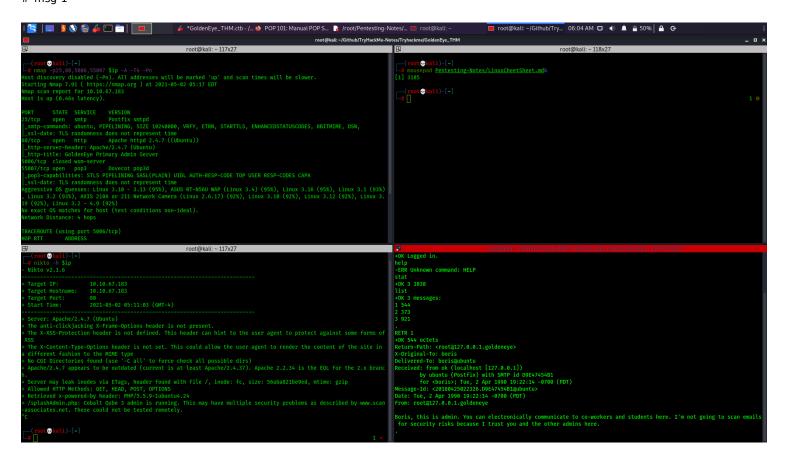
xWinter1995x!

POP3:55007

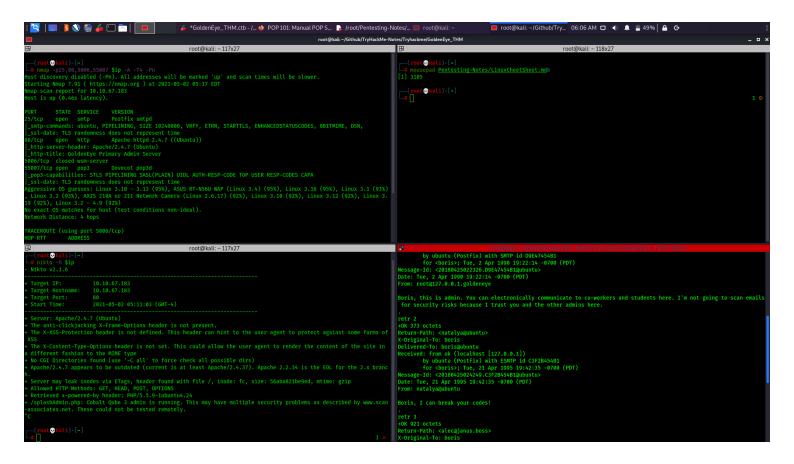
- # tried boris credentials but didnt worked
- # brutefoorce and found corfrect password which is secret1!



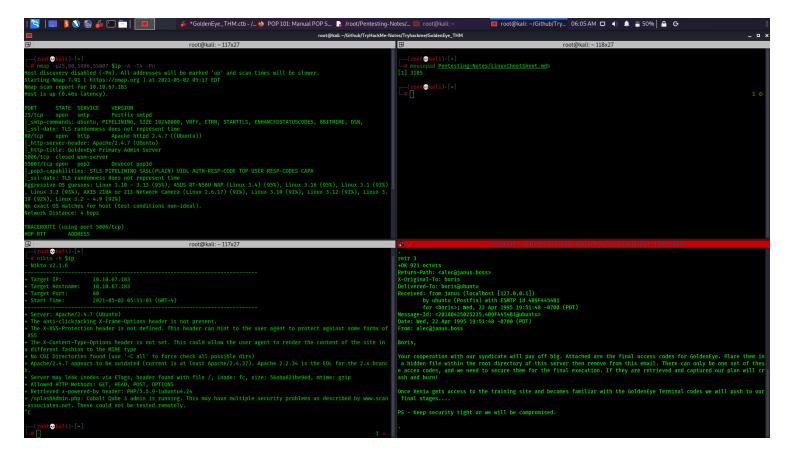
msg 1



msg 2



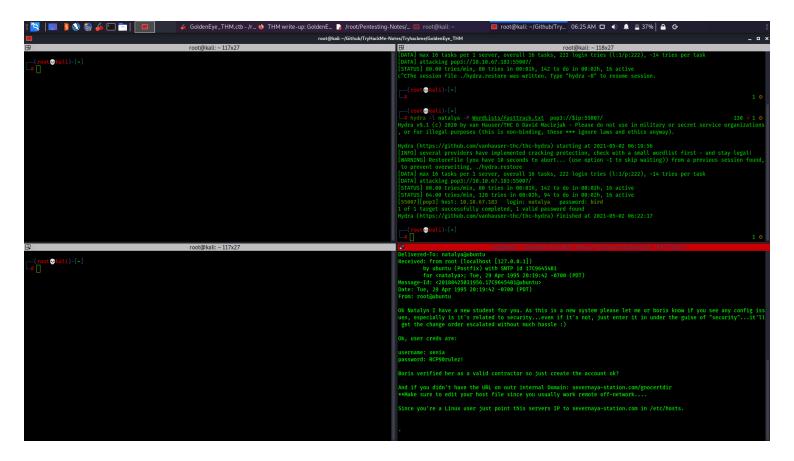
msg 3



Natalya

we brutefroce natalaya and get her password which is bird

In natalya inbox we get xenia cred and some more info about web infrastructure

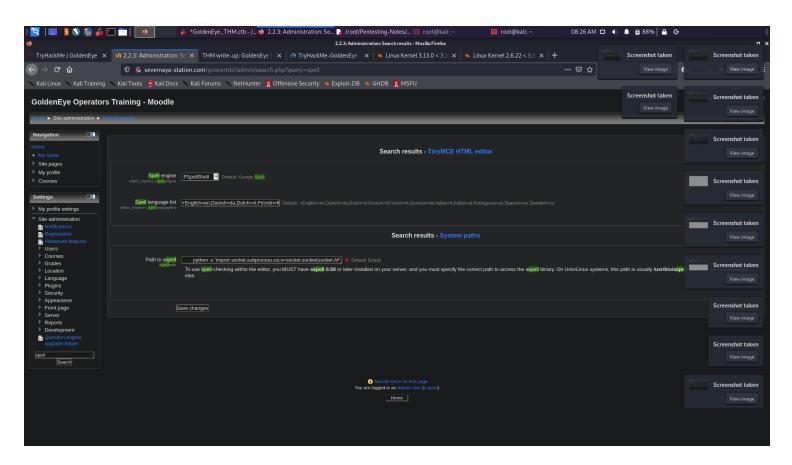


#

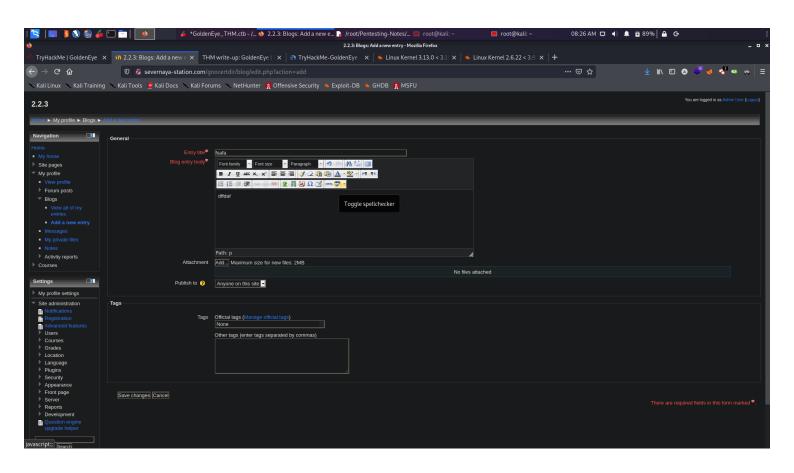
Exploitation

Moodle RCE

- # we now have admin priveleges in dashboard so we have full access to web app
- # moodle 2.2.3 is vulnerable to a rce
- # we have to set our payload in aspell path input form and set sp[ell engine to PSpellShell



NOw go and make a blog and then spell check it to trigger the payload and cathc gthe reverse shell



NOw we receive ashell on nc listener

PostExploitation

- # Our linux os 3.13.0 and is kernelvulnerable
- # we exploit it using a overlayfs kernel exploit cve-2016-5159
- # C code are written with compatbility of gcc but our target doesnt have gcc but hint suggests cc
- # So to make it cc compatible we can use the command sed -i "s/gcc/cc/g" priv.c
- # NOwe we compile and run the exploit and got root

Loot

Credentials

WEblogin /sev-home

Boris:InvincibleHack3r

Pop3

boris:secret1!

natalya:bird

doak:goat

Web login /gnocertdir

xenia:RCP90rulez!

 $dr_doak: 4 England!$

admin:xWinter1995x!

usernames boris natalya xenia alec

Flags

Root flag

568628e0d993b1973adc718237da6e93