Linux Machine - IP address 192.168.10.104

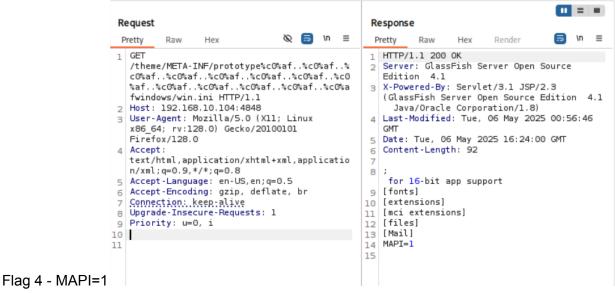
```
Netbios_polliaili_Nalle. Sky
    NetBIOS_Computer_Name: SRV01
    DNS_Domain_Name: SRV01
    DNS_Computer_Name: SRV01
    Product_Version: 6.3.9600
    System_Time: 2025-05-06T00:58:36+00:00
                              Oracle GlassFish 4.1 (Servlet 3.1; JSP 2.3; Java 1.8)
4848/tcp open http
_http-server-header: GlassFish Server Open Source Edition 4.1
|_http-title: Login
_http-trane-info: Problem with XML parsing of /evox/about
                              Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5985/tcp open http
|_http-server-header: Microsoft-HTTPAPI/2.0
 _http-title: Not Found
49153/tcp open msrpc
                              Microsoft Windows RPC
2 services unrecognized despite returning data. If you know the service/version, pl
ease submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-s
```

Flag 1 - Port 4848 was found open on the IP address 192.168.10.104 which i found through a nmap scan

```
4848/tcp open http Oracle GlassFish 4.1 (Servlet 3.1; JSP 2.3; Java 1.8)
```

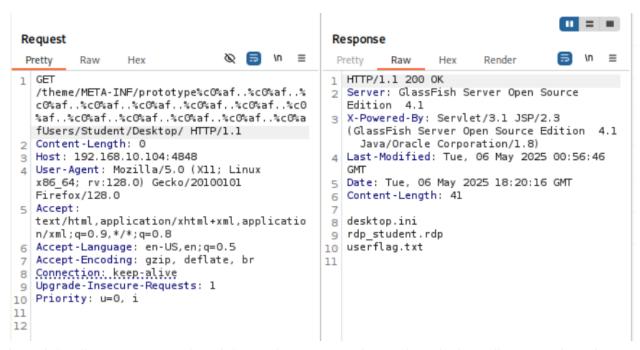
Flag 2 - Oracle GlassFish is running on the open port

Flag 3 - directory traversal



I used a directory traversal exploit that I found online to extract the file and find the last line was MAPI=1

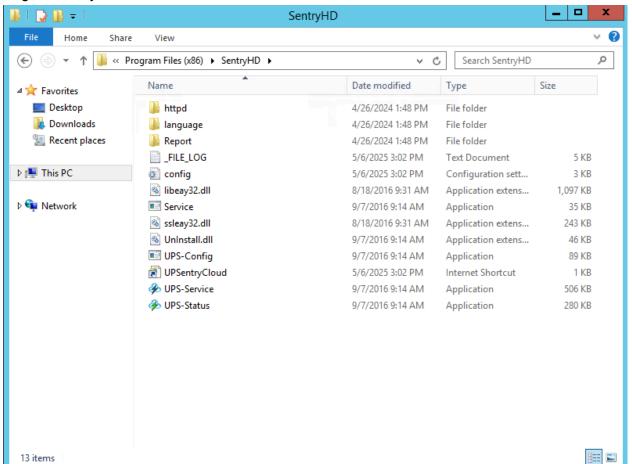
Flag 5 - rdp_student.rdp



I used the directory traversal exploit to gain access to the student desktop directory where I found credentials to RDP



Flag 6 - SentryHD



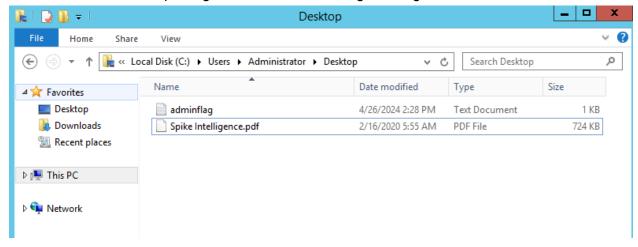
Inside RDP I looked around for any suspicious programs and found a vulnerable SentryHD program file. The SentryHD\config.ini file was readable which contained a login and password for web panel

Flag 7 -

```
hacked
Administrator
                         Guest
hacker1
                         student
The command completed successfully.
PS C:\Users\hacker1> net localgroup Administrators
Alias name
               Administrators
Comment
               Administrators have complete and unrestricted access to the computer/domain
Members
Administrator
hacked
hacker1
The command completed successfully.
```

Privilege Escalation - I found a script online that abused SentryHD software. SentryHD allows system-level commands to be run when a shutdown event is triggered and it is run as SYSTEM giving it escalated privileges. I just adjusted the script to contain a username and a password

that would pass through windows (Passw0rd123). Once I ran the script a new user (hacker1) was created with admin privileges and I was able to log in and gain control as admin



Once I had control as admin I was able to access and run all of the systems program files where I found the Spike Intelligence file. Running the file in a powershell with admin privileges resulted in successfully finding the last flag.

Linux Flags

Flag 0 - I found this flag by using path traversal and looking through common pathways



Flag 1 -

To get this flag I first had to establish my initial reverse shell. To do this I logged into ftp using a password that I found from passive recon. Once in ftp I placed my reverse shell script in the shells.php file and copied it to the ftp server. Once in place I searched on my browser the path to this file which triggered the reverse shell. Once it was triggered I upgraded the shell using the instructions. Once I had an upgraded shell I navigated to the scripts directory where I found readable files that contained flags 1 and 3.

Flag 2 -

track_errors	Off
unserialize_callback_func	no value
upload_max_filesize	2M
upload_tmp_dir	no value
user_dir	{2_Pr3tty_H3lpful_Ph1le}
user_ini.cache_ttl	300
user_ini.filename	.user.ini

Flag 3 - This flag was found the same way that I found flag 1 this time held inside thee index.html file

Flag 4 - I found this flag by running a curl command targeting a common file robots.txt

```
(kali@kali)-[~]
$ curl http://192.168.10.100/robots.txt

User-agent: Disallow: {4_Thank_Y0u_V3ry_Much!}

User-agent: Disallow: L25vdGVmb3JkZWVwLnR4dA=
```

Flag 5 -

```
www-datagyRavierCyberSecurityServer:/var/www/html$ cat upgradeshell

on your kali you need to change your shell to bash

exec bash --login
You can confirm if you're using bash by running:

ps -p $$

this should say bash insted of zch

Once you get the reverse shell do the following to upgrade your shell
/usr/bin/script -qc /bin/bash /dev/null

OP use python3 -c 'import pty;pty.spawn("/bin/bash")'

Background the process using CTRL + Z, and then type:
$ stty raw -echo; fg

(you will not be able to see anyhting) to bring back the shell hit enter two time
export TERM=xterm
```

```
deep@XavierCyberSecurityServer:~$ ls -la
ls -la
total 40
drwxr-xr-x 4 deep deep 4096 Apr 26 22:47 .
drwxr-xr-x 4 root root 4096 May 2
                                   2021 ...
        — 1 deep deep
                         0 Apr 26 22:47 .bash_history
-rw-r--r-- 1 deep deep 220 May 2
                                   2021 .bash_logout
-rw-r--r-- 1 deep deep 3771 May
                                2
                                   2021 .bashrc
drwx——— 2 deep deep 4096 May 2
                                   2021 .cache
-rw-rw---- 1 root deep
                        16 May
                                   2022 .deepsflags.txt
                               1
drwxrwxr-x 3 deep deep 4096 May
                                2
                                   2021 .local
-rw-r--r-- 1 deep deep 807 May 2
                                   2021 .profile
                                   2022 .selected editor
-rw-rw-r-- 1 deep deep
                        66 May
                                1
-rw-r--r-- 1 deep deep
                                2
                                   2021 .sudo as admin successful
                        0 May
-rwxr-x- 1 root deep 55 Apr 26 22:46 userflag.txt
deep@XavierCyberSecurityServer:~$ cat .deepsflags.txt
cat .deepsflags.txt
{5_Tr33_Hugger}
```

I found flag 5 once I got into deeps account. To get into Deep's account I used the cron job that ran every minute to trigger my payload that I placed in <u>backup.sh</u> as that was the file that was being ran by the cron job. I also modified /etc/hosts to direct traffic to my attacking machine.

Flag 7 -

```
# Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL

# See sudoers(5) for more information on "#include" directives:
#includedir /etc/sudoers.d

deep ALL=NOPASSWD:/usr/bin/man

# 
# {7_Sud0_1s_The_W4y}

# 
# You are so close to getting root access.
#Hint: Pay attention to your prompt #
root@XavierCyberSecurityServer:/etc#
```

Flag 8 -

```
www-data@XavierCyberSecurityServer:/etc$ cat hosts
127.0.0.1
               localhost
127.0.1.1
                XavierCyberSecurityServer
127.0.0.1
                XavierBackUpServer.ctf
     {8 The Host With The M0st}
#
# Hint looks like we are calling backup script locally.
# what if we can send this to our kali and execute as a
# reverse shell that was scheduled to run in crontab?
# The following lines are desirable for IPv6 capable hosts
       localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

I found this flag by catting the hosts file within the /etc directory

```
www-data@XavierCyberSecurityServer:/var/www/html$ cat /etc/hosts
127.0.0.1 localhost
127.0.1.1 XavierCyberSecurityServer
192.168.10.1 XavierBackUpServer.ctf
```

Update the etc/hosts file to point to my machine

Flag 9 - Flags 9 and 10 were found looking through the file system while I had root privileges.

Flag 10 -

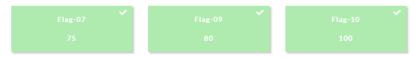
```
root@XavierCyberSecurityServer:~# ls
root.txt
root@XavierCyberSecurityServer:~# cat root.txt
{10_W00t_W00t_You_Got_Root}
root@XavierCyberSecurityServer:~#
```

Flags completed

Win



Root flags



User Lands



System Lands



Passive/Active

