PenTest 2 Iron Corp OraOra

Members

ID	Name	Role
1211103141	Muhammad Haikal Afiq Bin Rafingei	Leader
1211103148	Muhamad Izzul Iqbal Bin Ismail	Member
1211103830	Hakeem Bin Aminudin	Member

Recon and Enumeration

Members Involved: Izzul and Hakeem

Tools used: Nmap, Dig, Hydra

Thought Process and Methodology and Attempts:

First Hakeem put IP Address to etc/hosts file and execute the file

```
nmap -n -Pn -sv -sc -p53,135,3389,8080,11025,49667,49670 10.10.57.113 -o ironcorp.me
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-02 09:49 EDT
Nmap scan report for 10.10.57.113
Host is up (0.23s latence)
                    STATE SERVICE
                                                           VERSION
53/tcp open domain Simple DNS Plus
135/tcp open msrpc Microsoft Windows RPC
3389/tcp open ms-wbt-server Microsoft Terminal Services
   rdp-ntlm-info:
Target_Name: WIN-8VMBKF3G815
NetBIOS_Domain_Name: WIN-8VMBKF3G815
  NetBIOS_Computer_Name: WIN-8VMBKF3G815
DNS_Domain_Name: WIN-8VMBKF3G815
DNS_Computer_Name: WIN-8VMBKF3G815
Product_Version: 10.0.14393
System_Time: 2022-08-02713:50:44+00:00
ssl-cert: Subject: commonName=WIN-8VMBKF3G815
Not valid before: 2022-08-01713:08:46
_Not valid after: 2023-01-31713:08:46
_ssl-date: 2022-08-02713:50:52+00:00; +9s from scanner time.
1080/tcp open http Microsoft IIS httpd 10.0
        NetBIOS_Computer_Name: WIN-8VMBKF3G815
 8080/tcp open http
   http-methods:
   _ Potentially risky methods: TRACE
_http-title: Dashtreme Admin - Free Dashboard for Bootstrap 4 by Codervent
_http-server-header: Microsoft-IIS/10.0
                                                          Apache httpd 2.4.41 ((Win64) OpenSSL/1.1.1c PHP/7.4.4)
11025/tcp open http
   http-methods:
Potentially risky methods: TRACE
| http-title: Coming Soon - Start Bootstrap Theme
| http-server-header: Apache/2.4.41 (Win64) OpenSSL/1.1.1c PHP/7.4.4
49667/tcp open msrpc Microsoft Windows RPC
49670/tcp open msrpc Microsoft Windows RPC
Service Info: 0.5: Windows: CPE: com:/opin.crosoft.windows
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
_clock-skew: mean: 8s, deviation: 0s, median: 8s
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 70.21 seconds
```

Then Hakeem tries to access the port 8080, but there is no functionality that can serve him.



So he try open the port 53 where you can see list of sub-domain or information that relevant

After that Hakeem found two subdomains that are running internally.

```
dig @10.10.48.170 <u>ironcorp.me</u> axfr
; <>>> DiG 9.17.19-3-Debian <>>> @10.10.48.170 ironcorp.me axfr
; (1 server found)
;; global options: +cmd
                                 3600
                                                       SOA
                                                                  win-8vmbkf3g815. hostmaster. 3 900 600 86400 3600
ironcorp.me.
                                            IN
                                            IN
IN
                                                       NS
                                                                  win-8vmbkf3g815.
                                 3600
ironcorp.me.
admin.ironcorp.me.
                                 3600
                                                                  127.0.0.1
internal.ironcorp.me.
                                 3600
                                                                  127.0.0.1
ironcorp.me.
                                 3600
                                                       SOA
                                                                  win-8vmbkf3g815. hostmaster. 3 900 600 86400 3600
ironcorp.me.

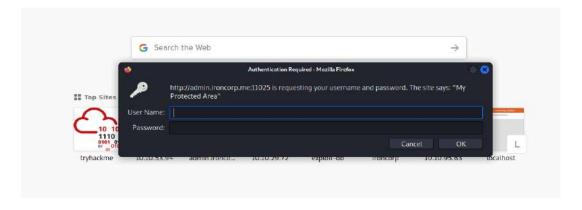
;; Query time: 227 msec

;; SERVER: 10.10.48.170#53(10.10.48.170) (TCP)

;; WHEN: Tue Aug 02 11:04:56 EDT 2022

;; XFR size: 5 records (messages 1, bytes 238)
```

He tries to access the port but none of them he can access because it is protected by basic authentication.

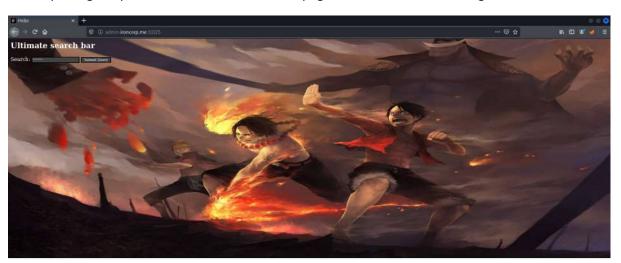


Izzul tried to open the admin.ironcorp.me but it needed a password.

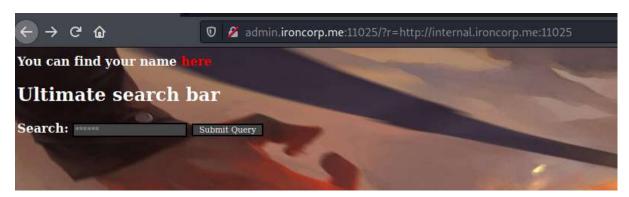
To get the username and password for the web page, Izzul uses hydra to brute force the password. By using 'rockyou.txt' with hydra, Izzul gets the password = 'password123'.

Final Result:

After inputting the password, Izzul can access the page with the One Piece background.



Izzul tested to see what sort of vulnerabilities the website was exposed to, and found out it was SSRF.



By abusing the vulnerability, Izzul gets the name of a user.



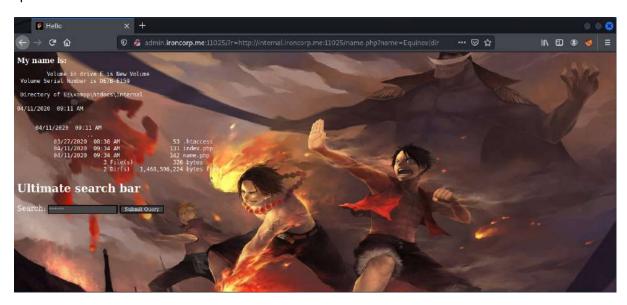
Initial Foothold

Members Involved: Haikal

Tools used: Burp suite, Mozilla Firefox, Terminal

Thought Process and Methodology and Attempts:

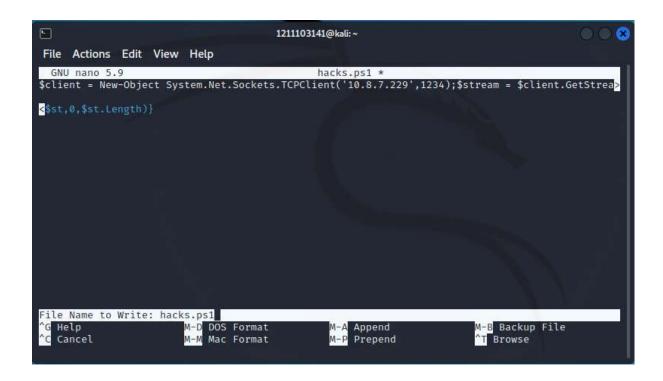
If we continue to enumerate, we can find the content of the drive E which can be a location to upload the reverse shell.



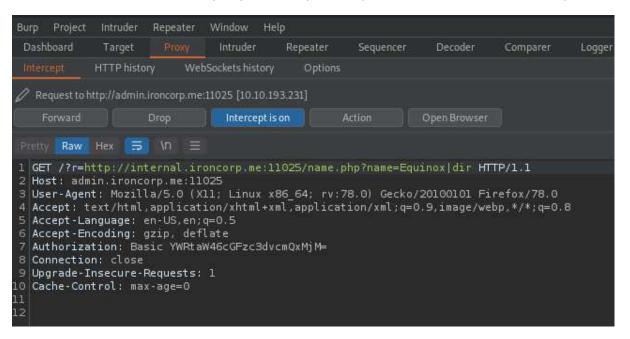
Haikal made his own http server and made a powershell reverse shell using the code made by nishan.

(https://github.com/vulware/powershell-reverse-shell-/blob/master/powershell%20tcp%20reverse% 20shell.ps1)



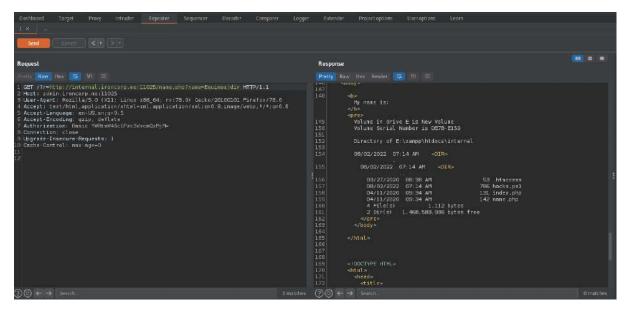


Haikal uses the repeater and decoder from Burp Suite to upload and run the powershell reverse shell into the remote device. He uses a proxy to intercept the request and send the codes to the repeater.



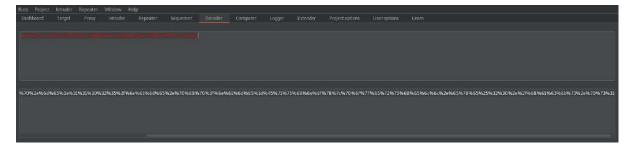
Then, he encodes the following plain text into the url and uses it to replace the url in repeater. If we check at the dir page, the shell is already in the directory.





Next, Haikal encodes the following plain text into the url and uses it to replace the url in repeater to activate the powershell reverse shell. Make sure to make a listener first.





```
Request

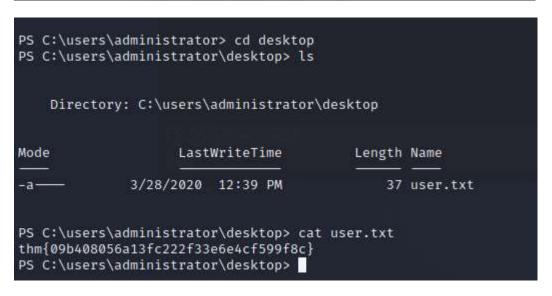
Respect

Res
```

Final Result:

The netcat listener managed to catch it and Haikal managed to get into the remote machine. After changing the directory, Haikal finds the user.txt and sees its content with cat command.

```
(1211103141@ kali)-[~]
$ nc =lvnp 1234
listening on [any] 1234 ...
connect to [10.8.7.229] from (UNKNOWN) [10.10.193.231] 50252
PS E:\xampp\htdocs\internal>
```



Root Privilege Escalation

Members Involved: Haikal

Tools used: Netcat, Terminal

Thought Process and Methodology and Attempts:

Haikal noticed the user superadmin, and suspects that the root.txt is in it.

Final Result:

Since Haikal can't change his directory into the superadmin, he just uses cat command towards the directory into the root.txt.

```
PS C:\users> cat superadmin\desktop\root.txt
thm{a1f936a086b367761cc4e7dd6cd2e2bd}
PS C:\users>
```

Contributions

ID	Name	Contribution	Signatures
1211103141	Muhammad	Gain the initial foothold and manage to get	Haikal
	Haikal Afiq	both flags.	
	Bin Rafingei		
1211103148	Muhamad	Did some recon and enumeration by using	Izzul
	Izzul Iqbal Bin	hydra. Edit the video presentation.	
	Ismail		
1211103830	Hakeem Bin	Did some recon and enumeration by using	Hakeem
	Aminudin	nmap and dig. Record the video	
		presentation.	

VIDEO LINK: https://youtu.be/488LxRE_-BE