This report provides an overview of the foundational exercises in the "Getting Started" section, including the specific tasks undertaken, questions posed, and their corresponding answers. Each question and answer are a practical application of basic cybersecurity concepts, emphasizing hands-on skills in various aspects of network security, web application analysis, and system penetration.

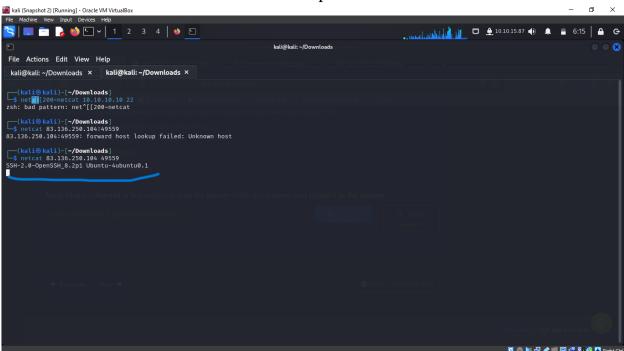
Questions and Answers:

1.Q: Apply what you learned to grab the banner of the server.

A: SSH-2.0-OpenSSH_8.2p1 Ubuntu-4ubuntu0.1

Explanation: Banner grabbing is used to identify network service information, including software types and versions, which can be critical for identifying vulnerabilities.

Establish a network connection to the computer

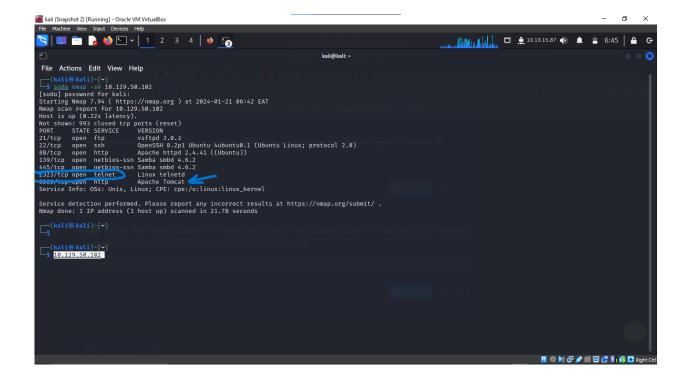


2.Q: What is the version of the service from the Nmap scan running on port 8080?

A: Apache Tomcat

Explanation: Nmap scanning helps identify services running on specific ports of a target system. Here, Apache Tomcat version was identified on port 8080.

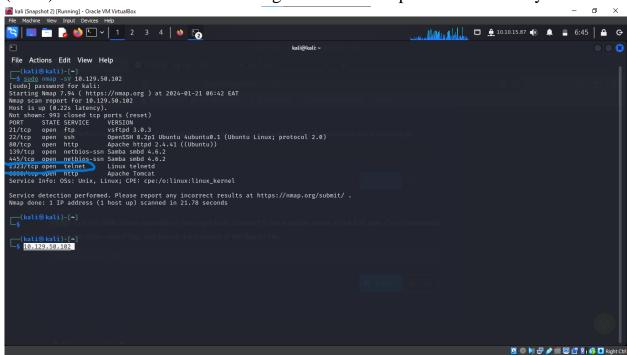
Getting detailed scan of the services running on the computer or device with the IP address 10.129.50.102. This scan will try to find out what services are open and what versions they are, which is valuable for security and network management purposes



3.Q: Identify the non-default port that the telnet service is running on.

A: 2323

Explanation: Telnet typically runs on port 23; identifying it on a non-standard port (2323) indicates altered configurations or potential security measures.



4.Q: List the SMB shares and submit the contents of the flag.txt file.

A: dceece590f3284c3866305eb2473d099

Explanation: Accessing SMB shares and retrieving files is a common task in network penetration testing and internal network exploration.

Run"

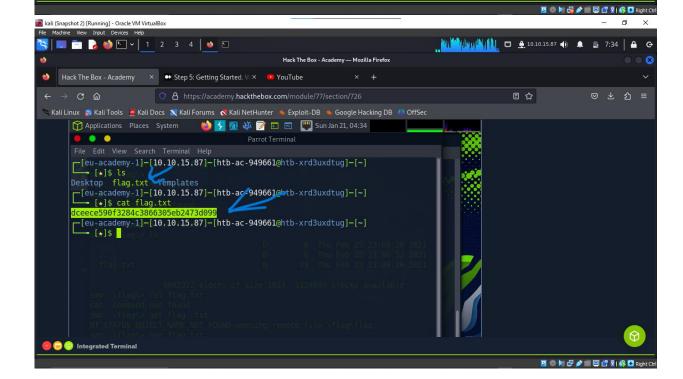
smbclient -N -L \\\\10.129.42.253

List SMB Shares

4062912 blocks of size 1024. 1124804 blocks available

cat: command not found
smb: \flag\> get flag .txt
NT_STATUS_OBJECT_NAME_NOT_FOUND opening remote file \flag\flag

smb: \flag\>

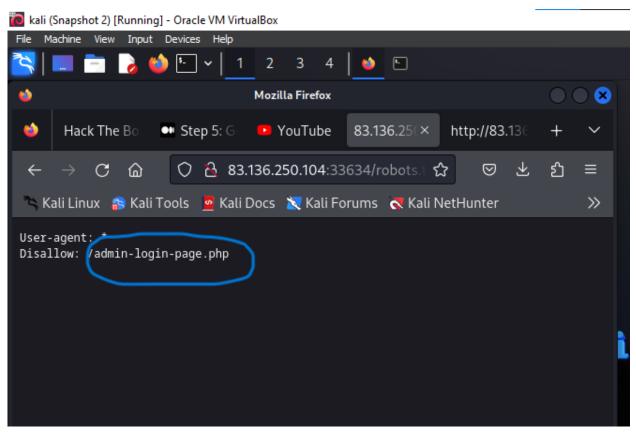


5.Q: Use web enumeration techniques to get the flag.

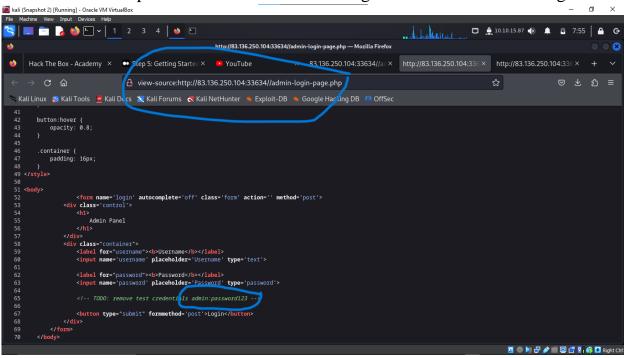
A: HTB{w3b_3num3r4710n_r3v34l5_53cr375}

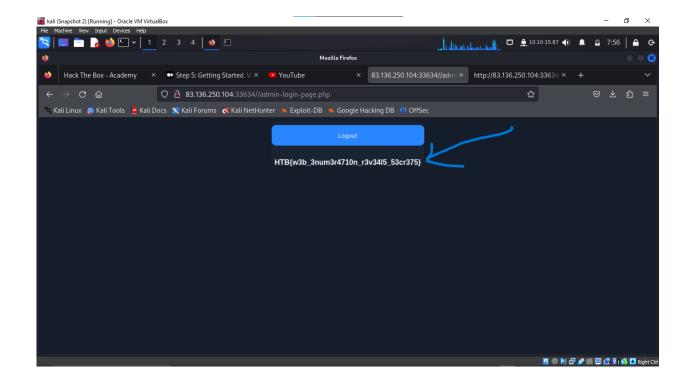
Explanation: Web enumeration involves gathering information about web servers and applications, often leading to the discovery of vulnerabilities or sensitive data.

Use robot.txt to locate any page within the site and found admin-login-page. Php



Viewed the source code of the page to check for any vulnerabilities and we found the username and password which we used to login in and obtained the flag.

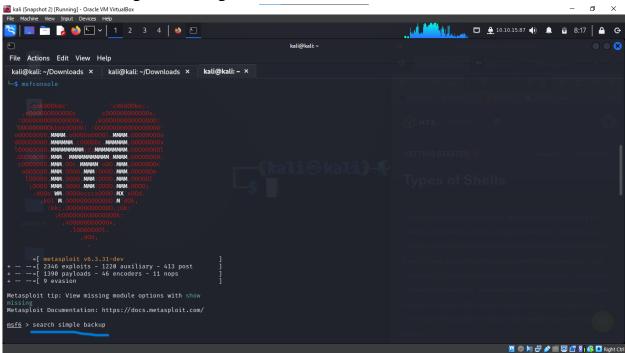


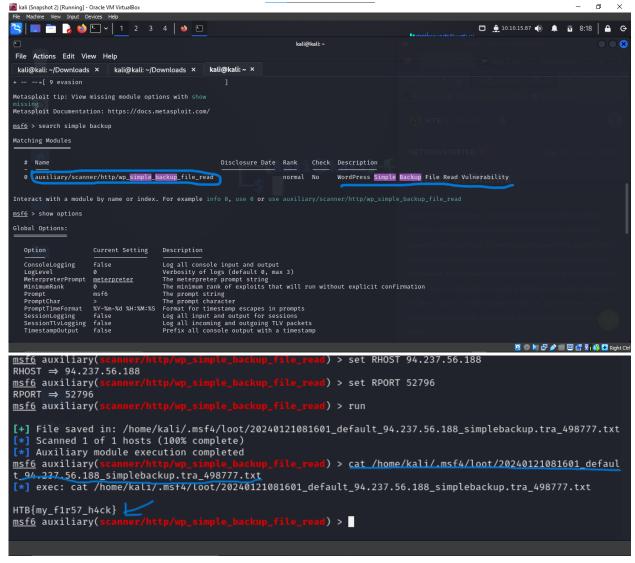


6.Q: Identify services and find public exploits to access '/flag.txt'.

A: HTB{my_f1r57_h4ck}

Explanation: Identifying and exploiting vulnerabilities in services is crucial in ethical hacking to gain unauthorized access or information.

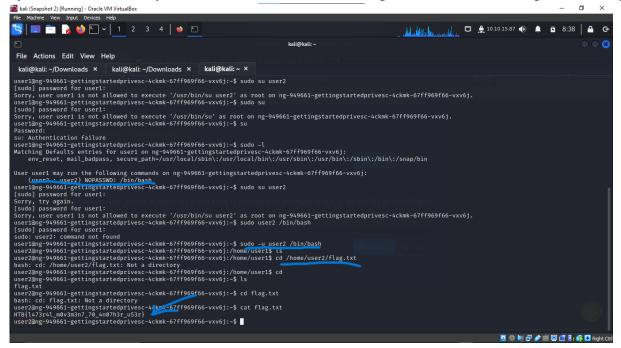




7.Q: SSH into the server and move to 'user2' to get the flag.

A: HTB{1473r4l_m0v3m3n7_70_4n07h3r_u53r}

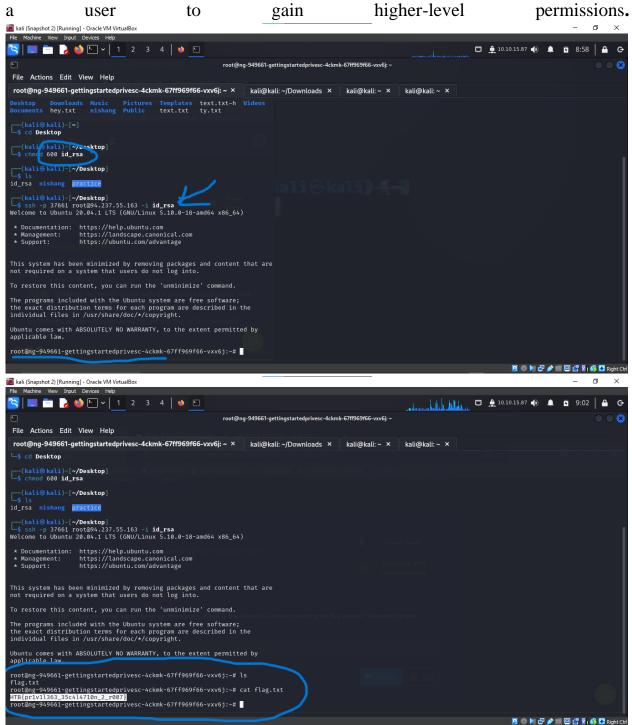
Explanation: Securely accessing systems via SSH and privilege escalation within a system are key skills in maintaining and breaching security.



8.Q: Escalate privileges to root and get the flag.

A: HTB{pr1v1l363_35c4l4710n_2_r007}

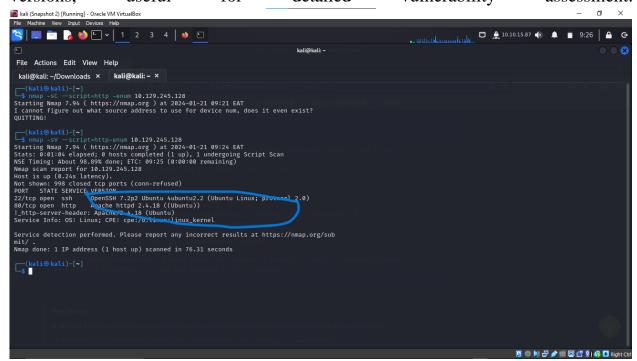
Explanation: Privilege escalation is a critical phase in system penetration, allowing



9.Q: Run an nmap script scan for Apache version.

A: 2.4.18

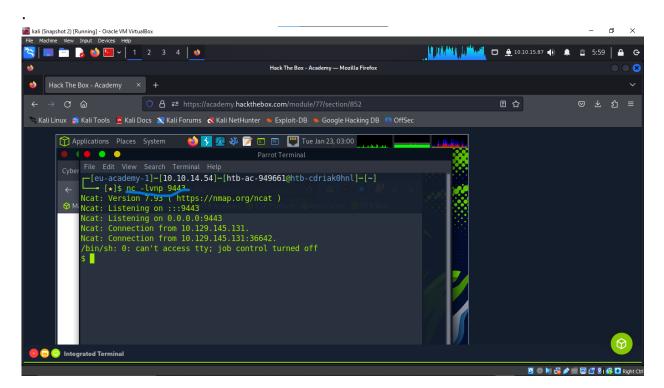
Explanation: Script scans with Nmap can extract specific information like software versions, useful for detailed vulnerability assessment.

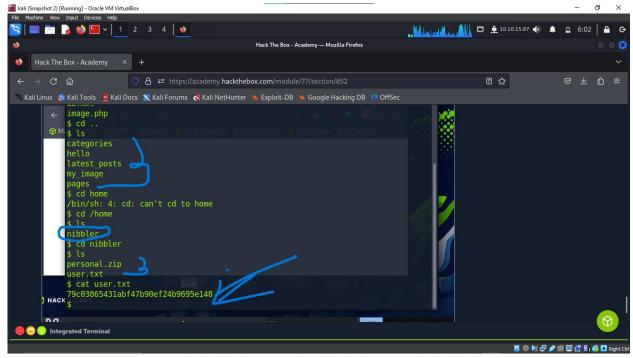


10.Q: Gain a foothold and submit the user.txt flag.

A: 79c03865431abf47b90ef24b9695e148

Explanation: Gaining a foothold is the first step in system penetration, often leading to access to user-level confidential information.

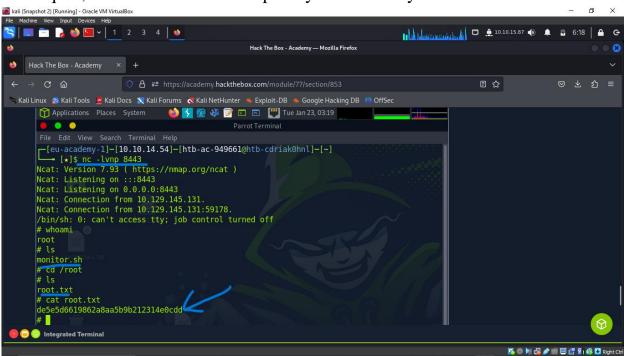


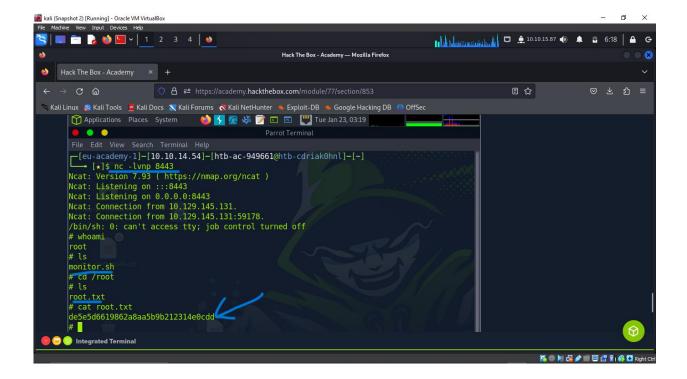


11.Q: Escalate privileges and submit the root.txt flag

A: de5e5d6619862a8aa5b9b212314e0cdd

Explanation: Accessing root-level files often requires advanced privilege escalation techniques, crucial for deep system analysis and full control.

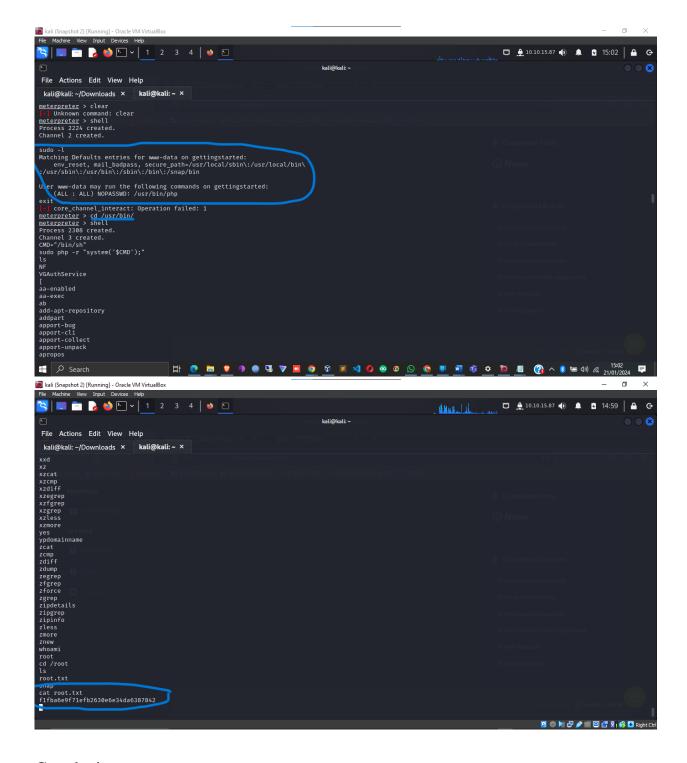




12.Q: Spawn the target, gain a foothold and submit the contents of the user.txt and root.txt flags.

A: User Flag: 7002d65b149b0a4d19132a66feed21d8, Root Flag: f1fba6e9f71efb2630e6e34da6387842

Explanation: This comprehensive task involves initial access, user-level penetration, and ultimate root-level access, encompassing a full spectrum of penetration testing skills.



Conclusion

The "Getting Started" section effectively introduced me to the fundamental practices and challenges in the field of cybersecurity. Through practical, hands-on tasks, I was exposed to essential techniques such as network scanning, service enumeration, vulnerability exploitation, and privilege escalation. This hands-on approach is vital for building a strong foundation in cybersecurity and preparing for more advanced topics in the field.





Congratulations Damiano254, you have completed this module!

Module: Getting Started

Difficulty: Fundamental

Exercises Completed: 12 /12

Completed at: 21 Jan 2024