EX NO : 6   DEMONSTRATE LINUX PRIVILEGE ESCALATION   NAME : SIVARANGINI Y

DATE : 2.4.2025   ROLL NO : 231901051

AIM:

Learn the fundamentals of Linux privilege escalation. From enumeration to exploitation, get hands-on with over 8 different privilege escalation techniques.

TASK 2 : WHAT IS PRIVILEGE ESCALATION?

Read the above.

No answer needed	✓ Correct Answer

TASK 3 : ENUMERATION

What is the hostname of the target system?

wade7363	✓ Correct Answer

What is the Linux kernel version of the target system?

3.13.0-24-generic	✓ Correct Answer

What Linux is this?

Ubuntu 14.04 LTS	✓ Correct Answer

What version of the Python language is installed on the system?

2.7.6	✓ Correct Answer

What vulnerability seem to affect the kernel of the target system? (Enter a CVE number)

CVE-2015-1328	✓ Correct Answer

TASK 4 : AUTOMATED ENUMERATION TOOLS

Install and try a few automated enumeration tools on your local Linux distribution

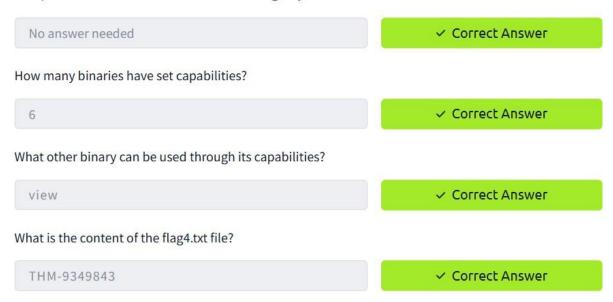| No answer needed	✓ Correct Answer

TASK 5 : PRIVILEGE ESCALATION : KERNEL EXPLOITS

find and use the appropriate kernel exploit to gain root privileges on the target system.

| No answer needed | ✓ Correct Answer | ♀ Hint |

What is the content of the flag1.txt file?

| THM-28392872729920 | ✓ Correct Answer |

TASK 6 : PRIVILEGE ESCALATION : SUDO

How many programs can the user "karen" run on the target system with sudo rights?

| 3 | ✓ Correct Answer |

What is the content of the flag2.txt file?

| THM-402028394 | ✓ Correct Answer |

How would you use Nmap to spawn a root shell if your user had sudo rights on nmap?

| sudo nmap --interactive | ✓ Correct Answer |

What is the hash of frank's password?

| $6$2.sUUDsOLIpXKxcr$eImtgFExyr2ls4jsghdD3DHL | ✓ Correct Answer |

TASK 7 : PRIVILEGE ESCALATION : SUID

Which user shares the name of a great comic book writer?

| gerryconway | ✓ Correct Answer |

What is the password of user2?

| Password1 | ✓ Correct Answer |

What is the content of the flag3.txt file?

| THM-3847834 | ✓ Correct Answer |

TASK 8 : PRIVILEGE ESCALATION : CAPABILITIES

Complete the task described above on the target system

| No answer needed | ✓ Correct Answer |

How many binaries have set capabilities?

| 6 | ✓ Correct Answer |

What other binary can be used through its capabilities?

| view | ✓ Correct Answer |

What is the content of the flag4.txt file?

| THM-9349843 | ✓ Correct Answer |

TASK 9 : PRIVILEGE ESCALATION : CRON JOBS

How many user-defined cron jobs can you see on the target system?

| 4 | ✓ Correct Answer |

What is the content of the flag5.txt file?

| THM-383000283 | ✓ Correct Answer |

What is Matt's password?

| 123456 | ✓ Correct Answer |

TASK 10 : PRIVILEGE ESCALATION : PATH

What is the odd folder you have write access for?

| /home/murdoch | ✓ Correct Answer | ♡ Hint |

Exploit the $PATH vulnerability to read the content of the flag6.txt file.

| No answer needed | ✓ Correct Answer | ♡ Hint |

What is the content of the flag6.txt file?

| THM-736628929 | ✓ Correct Answer |

TASK 11 : PRIVILEGE ESCALATION : NFS

How many mountable shares can you identify on the target system?

3 ✓ Correct Answer

How many shares have the "no_root_squash" option enabled?

3 ✓ Correct Answer

Gain a root shell on the target system

No answer needed ✓ Correct Answer

What is the content of the flag7.txt file?

THM-89384012 ✓ Correct Answer

TASK 12 : CAPSTONE CHALLENGE

What is the content of the flag1.txt file?

THM-42828719920544 ✓ Correct Answer

What is the content of the flag2.txt file?

THM-168824782390238 ✓ Correct Answer

CONCLUSION:
Tryhackme platform demonstrate linux privilege escalation task is successfully executed.