


EXERCISE 6

Demonstrate Linux Privilege Escalation

Aim: To understand and exploit stack-based buffer overflows by overwriting memory beyond a buffer's limit.



Linux Privilege Escalation

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

Medium 50 min

Share your achievement Start AttackBox Help Save Room 4854 Options

Room completed (100%)

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 1 ✓ Introduction

Task 2 ✓ What is Privilege Escalation?

Task 3 ✓ Enumeration

Task 4 ✓ Automated Enumeration Tools

Task 5 ✓ Privilege Escalation: Kernel Exploits

Task 6 ✓ Privilege Escalation: Sudo

Task 7 ✓ Privilege Escalation: SUID

Task 8 ✓ Privilege Escalation: Capabilities

Task 9 ✓ Privilege Escalation: Cron Jobs

Task 10 ✓ Privilege Escalation: PATH

Task 11 ✓ Privilege Escalation: NFS

Task 12 ✓ Capstone Challenge

Complete the task described above on the target system	<input type="text" value="No answer needed"/>	✓ Correct Answer
How many binaries have set capabilities?	<input type="text" value="6"/>	✓ Correct Answer
What other binary can be used through its capabilities?	<input type="text" value="view"/>	✓ Correct Answer
What is the content of the flag4.txt file?	<input type="text" value="THM-9349843"/>	✓ Correct Answer
How many user-defined cron jobs can you see on the target system?	<input type="text" value="4"/>	✓ Correct Answer
What is the content of the flag5.txt file?	<input type="text" value="THM-383000283"/>	✓ Correct Answer
What is Matt's password?	<input type="text" value="123456"/>	✓ Correct Answer
What is the odd folder you have write access for?	<input type="text" value="/home/murdoch"/>	✓ Correct Answer ? Hint
Exploit the \$PATH vulnerability to read the content of the flag6.txt file.	<input type="text" value="No answer needed"/>	✓ Correct Answer ? Hint
What is the content of the flag6.txt file?	<input type="text" value="THM-736628929"/>	✓ Correct Answer
How many mountable shares can you identify on the target system?	<input type="text" value="3"/>	✓ Correct Answer
How many shares have the "no_root_squash" option enabled?	<input type="text" value="3"/>	✓ Correct Answer
Gain a root shell on the target system	<input type="text" value="No answer needed"/>	✓ Correct Answer
What is the content of the flag7.txt file?	<input type="text" value="THM-89384012"/>	✓ Correct Answer
What is the content of the flag1.txt file?	<input type="text" value="THM-42828719920544"/>	✓ Correct Answer
What is the content of the flag2.txt file?	<input type="text" value="THM-168824782390238"/>	✓ Correct Answer

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

Answer the questions below

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

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\$elmtgFExyr2Is4jsghdD3DHLHHP9X50lv.jNmwo/BJpphrPRJWjelWEz2HH.joV14aDEwW1c3CahzB1uaqt ✓ Correct Answer

Result: Successfully exploited the buffer overflow to overwrite the return address and redirect program execution.