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EXERCISE 5A Stack based buffer overflow attacks

AIM:

To explore and analyze CVE-2019-18634, a buffer overflow vulnerability in the Unix Sudo program, and understand its exploitation and mitigation.





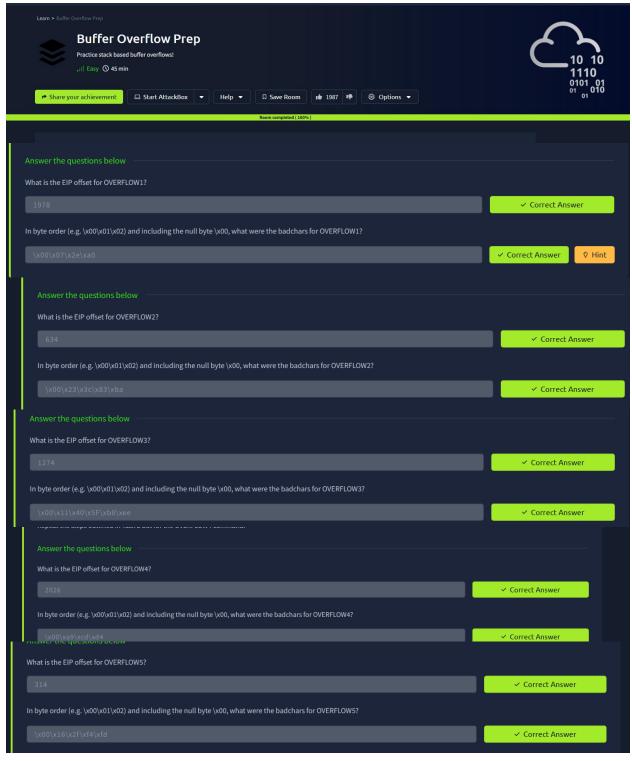
RESULT:

The vulnerability was successfully analyzed, demonstrating potential privilege escalation. Mitigation measures, including updating Sudo to version 1.8.31 or later, were recommended to prevent exploitation.

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EXERCISE 5B Stack based buffer overflow attacks

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



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