

EXERCISE 5B

Stack based buffer overflow attacks

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

Learn > Buffer Overflow Prep

Buffer Overflow Prep

Practice stack based buffer overflows!

📊 Easy ⌚ 45 min

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Answer the questions below

What is the EIP offset for OVERFLOW1?

1978

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW1?

\x00\x07\x2e\xa0

✓ Correct Answer 🔍 Hint

Answer the questions below

What is the EIP offset for OVERFLOW2?

634

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW2?

\x00\x23\x3c\x83\xba

✓ Correct Answer

Answer the questions below

What is the EIP offset for OVERFLOW3?

1274

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW3?

\x00\x11\x40\x5F\xb8\xee

✓ Correct Answer

Repeat the steps outlined in Task 4 but for the OVERFLOW4 challenge.

Answer the questions below

What is the EIP offset for OVERFLOW4?

2026

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW4?

\x00\xa9\xcd\xd4

✓ Correct Answer

Answer the questions below

What is the EIP offset for OVERFLOW5?

314

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW5?

\x00\x16\x2f\xfd

✓ Correct Answer

Answer the questions below

What is the EIP offset for OVERFLOW6?

1034

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW6?

\x00\x08\x2c\xad

✓ Correct Answer

What is the EIP offset for OVERFLOW7?

1306

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW7?

\x00\x8c\xae\xbe\xfb

✓ Correct Answer

What is the EIP offset for OVERFLOW8?

1786

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW8?

\x00\x1d\x2e\xc7\xee

✓ Correct Answer

What is the EIP offset for OVERFLOW10?

537

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW10?

\x00\xa0\xad\xbe\xde\xef

✓ Correct Answer

Answer the questions below

What is the EIP offset for OVERFLOW9?

1514

✓ Correct Answer

In byte order (e.g. \x00\x01\x02) and including the null byte \x00, what were the badchars for OVERFLOW9?

\x00\x04\x3e\x3f\xel

✓ Correct Answer

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