SecurityTube Linux Assembly Expert (SLAE^{64})

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SWSE, SMFE, SPSE, SGDE, SISE, SLAE^{32,64} Course Instructor

Module 2: Introduction to Shellcoding

21. MMX XOR Decoder

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http://SecurityTube-Training.com

Ton of instructions!

- FPU
- MMX
- SSE
- SSE2

Advantages

- Existing “popular” shellcodes hardly use them
- Probably detection rates lesser by AV and other analysis tools
- Easy to replicate existing functionality using these extensions

MMX based XOR Decoder

- SIMD – Single instruction multiple data
- Registers MM0 to MM7
- Can load 8 bytes qword
- Moving Data – movq
- XOR'ing Data – pxor
- Key Difference from the previous XOR decoder
  - Operates over 8 bytes at the same time

Pentester Academy

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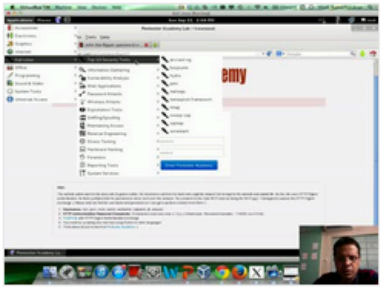
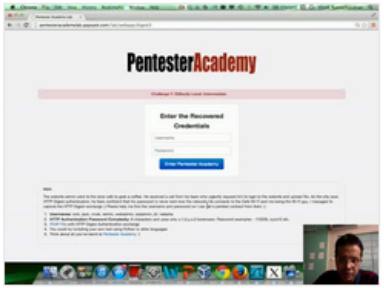


Challenge 7: Cracking Digest Authentication Solution in WAP Challenges



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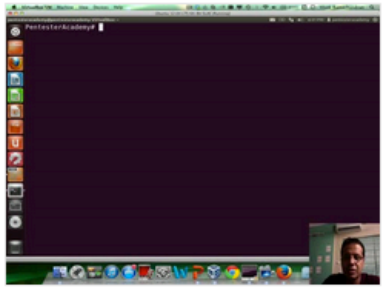
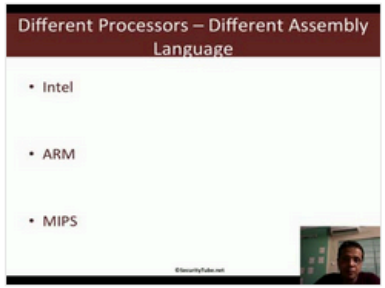


Module 1: GDB Test Solution in x86_64 Assembly Language and Shellcoding on Linux



Module 1: CPU Information in x86_64 Assembly Language and Shellcoding on Linux