SecurityTube Linux Assembly Expert (SLAE^{64})

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Module 2: Introduction to Shellcoding

11. Execve JMP-CALL-POP Shellcode

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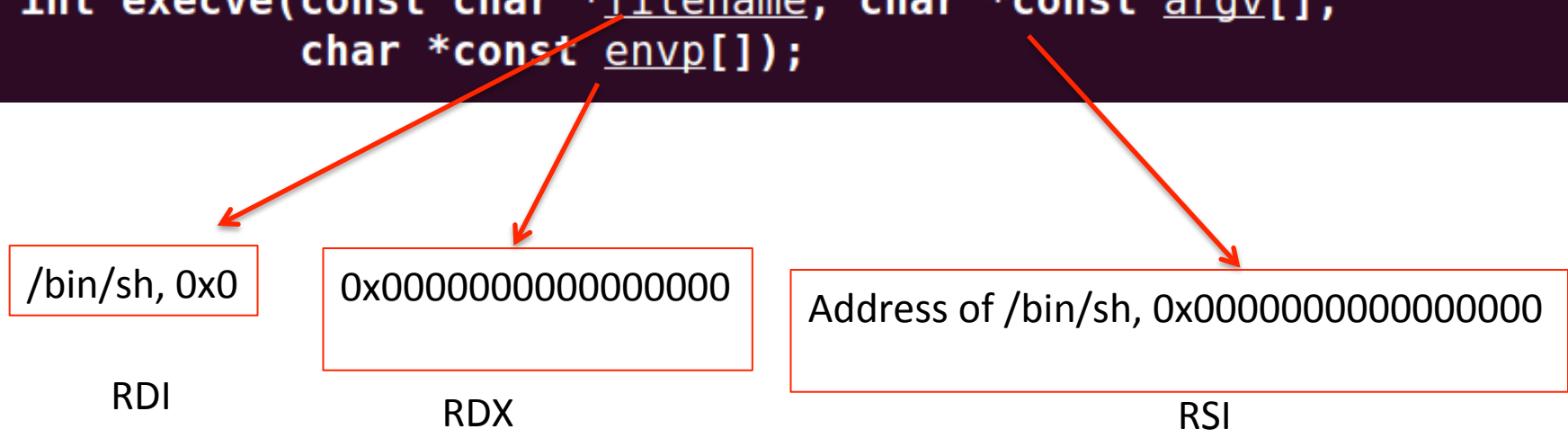
Is there a need for exit()

- execve does not return if successful

- there is no need for exit() to be called

Execve

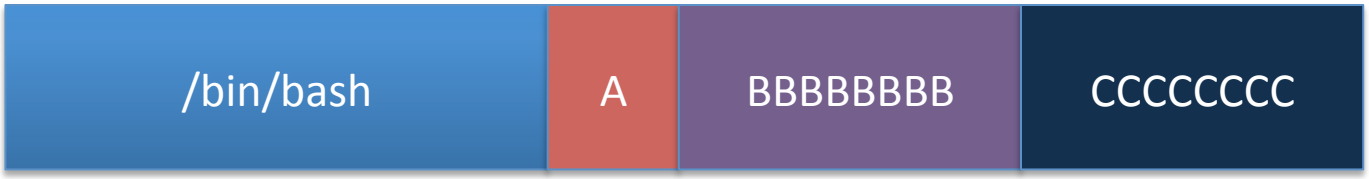
```
EXECVE(2)                          Linux Programmer's Manual

NAME
       execve - execute program

SYNOPSIS
       #include <unistd.h>

       int execve(const char *filename, char *const argv[],
                  char *const envp[]);
```



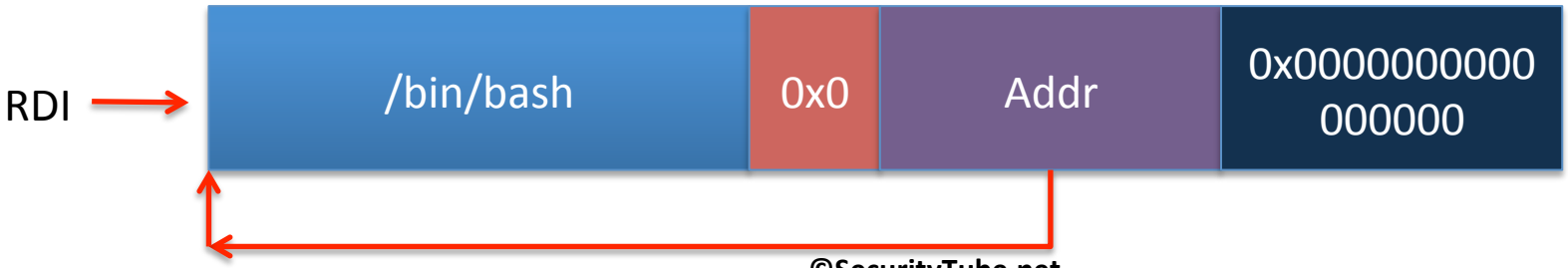
We cannot have NULLs in the Shellcode

Approach

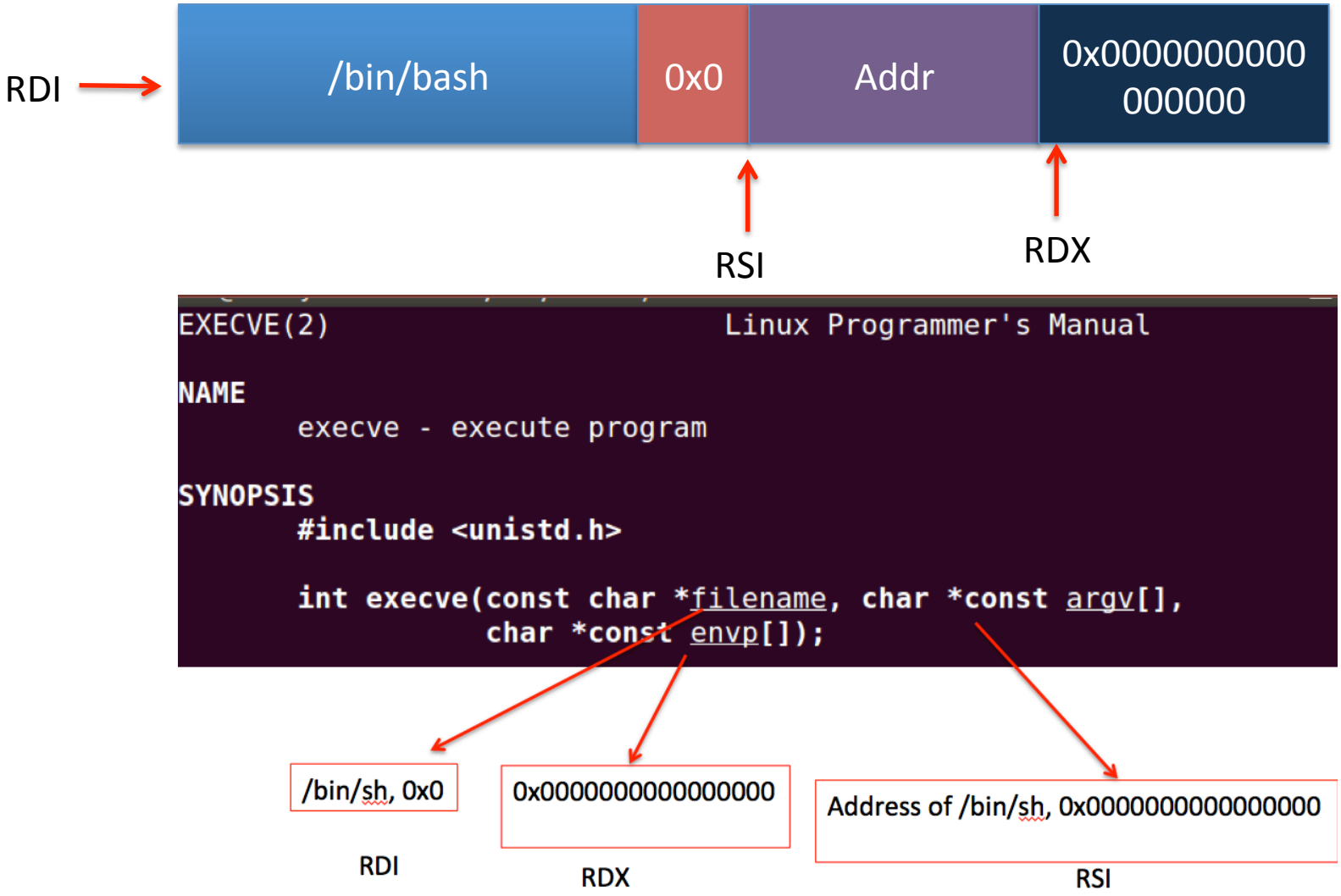
Initial String



1. Use JMP-CALL-POP to find the address of the string
2. Convert “A” to 0x0
3. Convert “BBBBBBBB” to address of “/bin/bash”
4. Convert “CCCCCCCC” to 0x00000000



Approach



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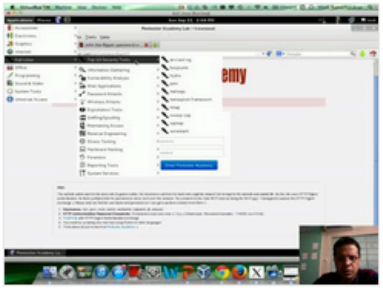
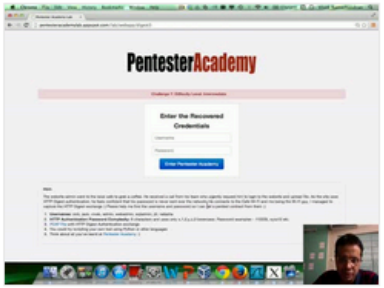
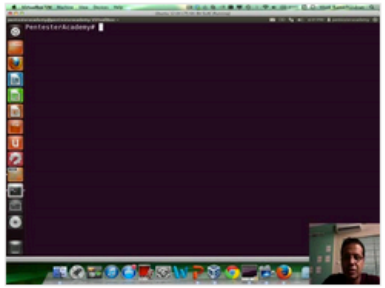


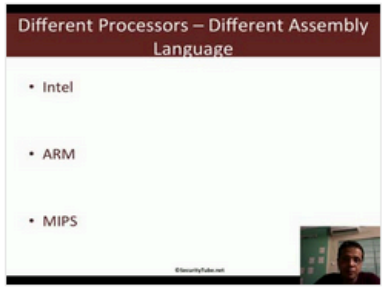
Challenge 7: Cracking Digest Authentication Solution in WAP Challenges



Challenge 7: Cracking Digest Authentication in WAP Challenges



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