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[Linux x86 NASM] Open, Read & Write syscalls

Altego

Posted 10 May 2011 - 07:39 PM

```

section .bss
buffer: resb 2048    ; A 2 KB byte buffer used for read

section .data
buflen: dw 2048    ; Size of our buffer to be used for read

section .text
global _start
_start:
; open(char *path, int flags, mode_t mode);
; Get our command line arguments.
pop ebx    ; argc
pop ebx    ; argv[0] (executable name)
pop ebx    ; argv[1] (desired file name)
mov eax, 0x05 ; syscall number for open
xor ecx, ecx ; O_RDONLY = 0
xor edx, edx ; Mode is ignored when O_CREAT isn't specified
int 0x80    ; Call the kernel
test eax, eax ; Check the output of open()
jns file_read ; If the sign flag is set (positive) we can begin reading the file

; = If the output is negative, then open failed. So we should exit
exit:
mov eax, 0x01 ; 0x01 = syscall for exit
xor ebx, ebx ; makes ebx technically set to zero
int 0x80

; = Begin reading the file

file_read:
; read(int fd, void *buf, size_t count);
mov ebx, eax ; Move our file descriptor into ebx
mov eax, 0x03 ; syscall for read = 3
mov ecx, buffer ; Our 2kb byte buffer
mov edx, buflen ; The size of our buffer

```

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```

int 0x80
test eax, eax ; Check for errors / EOF
jz file_out ; If EOF, then write our buffer out.
js exit ; If read failed, we exit.
; No error or EOF. Keep reading :).

file_out:
; write(int fd, void *buf, size_t count);
mov edx, eax ; read returns amount of bytes read
mov eax, 0x04 ; syscall write = 4
mov ebx, 0x01 ; STDOUT = 1
mov ecx, buffer ; Move our buffer into the arguments
int 0x80
jmp exit ; All done :)



```



I think it is a decent attempt for someone who hardly knows assembly xD.
 Anyways, I did this a while back ago and thought I could repost it here from other sites I go to.



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~ Jenny Sanford