

```

1                                ; taken from here cause I was banging my head against
a wall for hours -> https://gist.github.com/BertrandBordage/10921263
2                                ; checking if file exists -> https://gist.github.com/A
rchenoth/5380671
3                                %define SYS_EXIT 60
4                                %define SYS_READ 0
5                                %define SYS_WRITE 1
6                                %define SYS_OPEN 2
7                                %define SYS_CLOSE 3
8                                %define STDOUT 1
9                                %define SYS_CREATE 85
10
11                               %define BUFFER_SIZE 180
12
13                               section .text
14                               global _start
15                               _start:
16                               ; So we can read in our argument from argv[]
17 00000000 4883C410             add rsp, byte 0x10
18 00000004 5F                  pop rdi
19 00000005 EB00                jmp _check
20                               ; I added this to see
21 _check:
22                               ; basic if/else control flow -> https://stackoverflow.
com/questions/14292903/complex-if-statement-in-assembly
23 00000007 BA00000000          mov rdx,0
24 0000000C 4839C2             cmp rdx, rax
25 0000000F 7E02                jle _cont
26 00000011 7F3C                jnle _exit_failiure
27                               _cont:
28
29                               ; open the file
30 00000013 B802000000          mov rax, SYS_OPEN
31 00000018 BE00000000          mov rsi, 0
32 0000001D 0F05                syscall
33 0000001F 48890425[00000000]      mov [fd], rax
34 00000027 EB00                jmp _read_write
35
36                               _read_write:
37                               ; Read the file into the buffer
38 00000029 B800000000          mov rax, SYS_READ
39 0000002E 488B3C25[00000000]      mov rdi, [fd]
40 00000036 48BE-                mov rsi, file_buffer
41 00000038 [0000000000000000]
42 00000040 BAB4000000          mov rdx, BUFFER_SIZE
43 00000045 0F05                syscall
44
45 00000047 4883F800             cmp rax, 0
46 0000004B 740E                je _exit_success
47
48 0000004D 7ADA                jp _read_write
49
50
51                               _exit_failiure:
52                               ; exit with code 1
53 0000004F B83C000000          mov rax, 60
54 00000054 BF01000000          mov rdi, 1
55 00000059 0F05                syscall
56
57                               _exit_success:
58                               ; Close the file stream
59 0000005B B803000000          mov rax, SYS_CLOSE
60 00000060 48BF-                mov rdi, fd
61 00000062 [0000000000000000]
62 0000006A 0F05                syscall

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63 0000006C EB00                                jmp exit
64                                           exit:
65 0000006E B801000000                        mov rax, SYS_WRITE
66 00000073 BF01000000                        mov rdi, 1
67 00000078 48BE-                          mov rsi, file_buffer
68 0000007A [0000000000000000]
69 00000082 BAB4000000                        mov rdx, BUFFER_SIZE
70 00000087 0F05                            syscall
71 00000089 B801000000                        mov rax, SYS_WRITE
72 0000008E BE0A000000                        mov rsi, 10
73 00000093 BA01000000                        mov rdx, 1
74 00000098 0F05                            syscall
75 0000009A B83C000000                        mov rax, 60
76 0000009F BFB4000000                        mov rdi, BUFFER_SIZE
77 000000A4 0F05                            syscall
78
79
80                                           section .data
81 00000000 0000                            fd dw 0
82 00000002 32361392A55A27F3                key db 0x32,0x36,0x13,0x92,0xa5,0x5a,0x27,0xf3
83 0000000A 646563727970746564                path: db "decrypted"
84 00000013 0000                            decrypted dw 0
85                                           led: equ $-path
86 00000015 01                            index db 1
87
88
89                                           section .bss
90 00000000 <res 000000B4>                    file_buffer resb BUFFER_SIZE
91                                           length: equ $-file_buffer
92
93 ; key: db '0123456789ABCDEF', 10
```