

hackers, assemble!

with avantika



~# whoami

avantika (@iamavu)

- a girl who dabbles in security
- makes music sometimes
- loves memes :D
- breaks things
- has bad handwriting D:

what we hacking today?

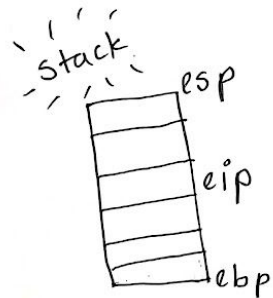
- your fear of assembly language

.global -start
 ↘ global symbol

.section -text
 ↓

readable
executable

.section -data
 ↘ readable
 writable



eax
ebx
ecx

{ sys calls }

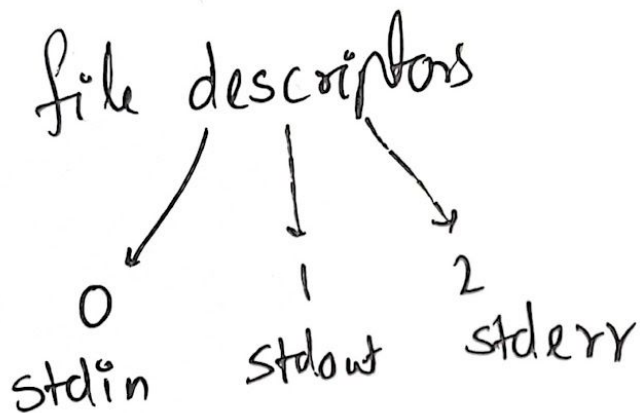
```
mov %eax, 1  
mov %ebx, 64
```

exit

```
int 0x80
```

interrupt → tell kernel to do something for us

much
now



write something, i'm compiling
-start: you

```
mov %eax, 4
```

```
mov %ebx, 1
```

```
mov lea %ecx, [msg]
```

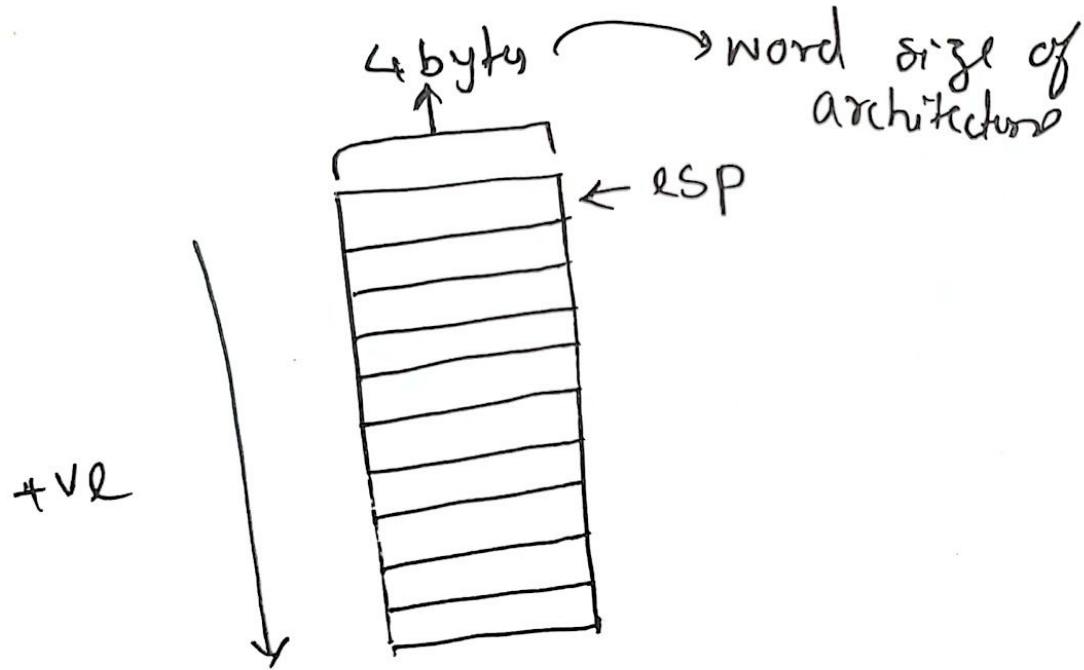
```
mov %edx, 14
```

.section .data

msg:

.ascii "hello, friend!"

yay! stack



yay!
assembly

push 0x0a414141

mov %eax, 4

mov %ebx, 1

mov %ecx, %esp

mov %edx, 4

int 0x80

q&a