

ROP Gadgets

C A R P E T

A D D R E S S

R I C E

E N G I N E E R I N G

F A C E B O O K























P









A

















A



N

G



B





K

ROP Gadgets

C A R P E T



= P E T

A D D R E S S



= D R E S S

R I C E



= I C E

E N G I N E E R I N G



= R I N G

F A C E B O O K



= B O O K

Byte Shift

- We can point the RIP (x64 bit instruction pointer register) to a location that contains a micro instruction that we want to execute followed by a ***RET***

```
f7 c7 07 00 00 00  
0f 95 45 c3
```

```
test $0x00000007, %edi  
setnzb -61(%ebp)
```