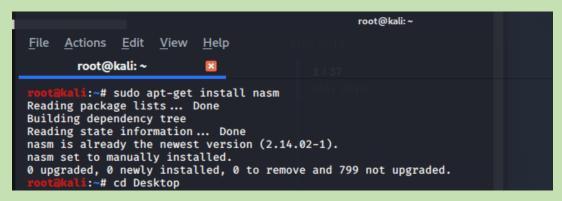
Write a Simple Shellcode

A simple shellcode that spawns a shell

First though, I will write a normal assembly program. I will need nasm installed on my machine to compile it.

Step 1

sudo apt-get install nasm.



Step 2

Get a sample assembly program

Create a shell.asm file

Save that sample assembly program into that shell.asm file

Step 3

To compile it use the following commands:

nasm -f elf -o shell.o shell.asm

ld -o shell shell.o

```
root@kali:~# vi shell.asm
root@kali:~# nasm -f elf -o shell.o shell.asm
root@kali:~# ld -o shell shell.o
ld: i386 architecture of input file `shell.o' is incompatible with i386:x86-64 output
```

Check the assembly file is available in root directory using ls command

```
root@kali:~# ls
Desktop Music shell.asm Templates
Documents Pictures teamviewer_amd64.deb Videos
Downloads Public teamviewer_amd64.deb.1
```

```
root@kali:~# nasm -f elf64 shell.asm
root@kali:~# ld -s -o hello hello.o
root@kali:~# ld -s -o shell shell.o
root@kali:~# ./shell
```

Step 4

Now run it with:

./shell

Now I can get a shell

Step 5

Using the below command to extract the shellcode

objdump -M intel -d shell

```
root@kali:~# ./shell
# #!/bin/bash
# My first script
echo "Hello World!"# # #objdump -M intel -d shell
> ^C
# objdump -M intel -d shell
shell:
             file format elf64-x86-64
Disassembly of section .text:
0000000000401000 <.text>:
   401000:
                    b8 0b 00 00 00
                                                mov
                                                         eax,0×b
                                                         ebx,0×402000
ecx,0×0
0×80
                   bb 00 20 40 00
b9 00 00 00 00
   401005:
                                                mov
   40100a:
                                                mov
   40100f:
                   cd 80
                                                int
   401011:
                    b8 01 00 00 00
                                                mov
                                                         eax,0×1
                                                         ebx,0×0
0×80
   401016:
                    bb 00 00 00 00
                                                mov
   40101b:
                    cd 80
                                                int
# return 0;
```

Here I got the shell code

```
root@kali:~# ./shell
# #!/bin/bash
# My first script
echo "Request to attack someone!"
# # # Request to attack someone!
# objdump -M intel -d shell
shell:
               file format elf64-x86-64
Disassembly of section .text:
0000000000401000 <.text>:
401000: b8 0b 00 00 00
                                                                 eax,0×b
                                                       mov
                      bb 00 20 40 00
   401005:
                                                                 ebx,0×402000
                                                      mov
                      b9 00 00 00 00
   40100a:
                                                       mov
                                                                 ecx,0×0
                     cd 80
   40100f:
                                                                 0×80
                                                       int
                     b8 01 00 00 00
bb 00 00 00 00
                                                                eax,0×1
ebx,0×0
0×80
   401011:
                                                       mov
   401016:
                                                       mov
                      cd 80
   40101b:
                                                       int
# ^C
# return 0;
```

THANK YOU