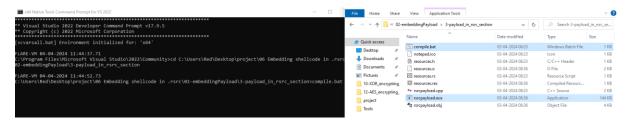
Analyzing Shellcode embedded in .rsrc section, with xdbg

First, run the compile.bat file in native cmd and get a .exe file.



Then execute the .exe file:

```
x64 Native Tools Command Prompt for VS 2022 - rsrcpayload.exe — X

FLARE-VM 04-04-2024 11:47:00.64

C:\Users\Red\Desktop\project\06 Embedding shellcode in .rsrc\02-embeddingPayload\3-payload_in_rsrc_section>rsrcpayload.exe

shellcodePayload addr : 0x00007FF747218060

alloc_mem addr : 0x000002A560F00000

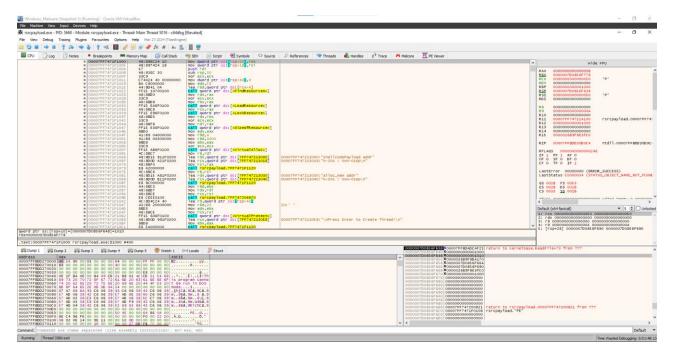
Press Enter to Create Thread!
```

As we can see we got the shellcodePayload address, and the allocated shellcode address.

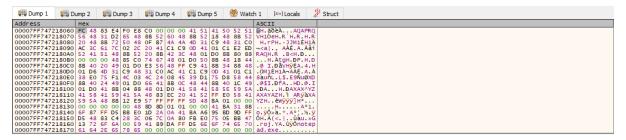
So now we will open the xdbg, to analyze the .exe file, these are the steps you need to follow initially before analyzing the file:

- 1. First open xdbg, then in the file section, attach the .exe file, which you are running.
- 2. Then in the symbols section, double-click on the .exe file which you are currently running, then run the program, to sync.
- 3. Now you are ready to analyze the program.

Here's how the xdbg will look like after you follow each step:



So, now we will go to each shellcodePayload memory in the dump part, and we can see our payload here:



And we can see here in Dump1 that it is ending with notepad.exe, which is our shellcode

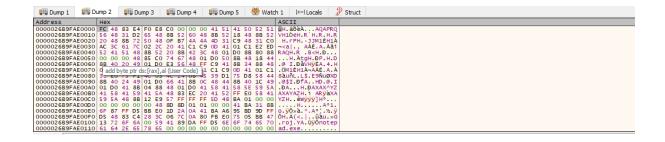
Even in the Memory Map part, we can find the shellcode payload memory and can see under the info column, we can see it is as ".rsrc"



And for the allocated memory, we can see in the Memory Map, initially the Protection was just read and written, and now it is read and executed.



We can even follow the allocated memory in the dump section.



Now when we press enter in the cmd, the program gets terminated, and we can see Notepad is open.

