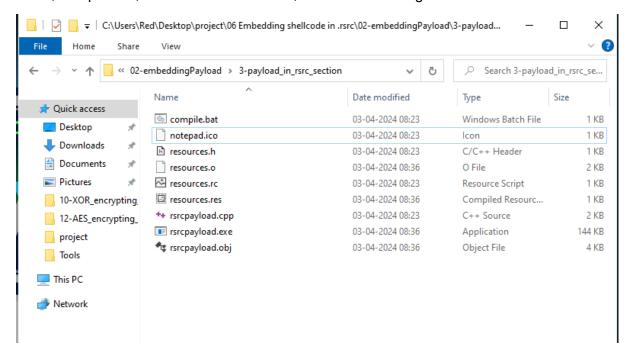
Embedding Shellcode in .rsrc section:

In the earlier section, we saw that we had put our shellcode in both .txt and the .data part, so this time we will do it in the .rsrc part.

Here in the file, we can see that we have the shellcode that we had earlier generated in Kali Linux, notepad.ico, which is a fake icon file, so we will be using that as our shellcode



Here's what the compile.bat file does:

```
### BCHO OFF

To resources.rc

Covers /MACHINE:x64 /OUT:resources.c resources.res

col.exe /nologo /Ox /MT /WO /GS- /DNDEBUG /Torsropsyload.cpp /link /OUT:rsropsyload.exe /SUBSYSTEM:CONSOLE /MACHINE:x64 resources.c
```

Here we have the RC compiler, which is a resource compiler, that uses resources.rc extension, and compiles to resources.res, then later cvtres(Convert resources) converts the resources.rc file to resources.o file and .o files are required to build your final .exe files.

So, here's what's there inside resources.rc file:

Here we are associating the "MY_ICON" to the RCDATA type, and the file is notepad.ico

Now let's look at resources.h file:

```
1 #define MY_ICON 200
2 |
```

Here are resources.h is a header file, here we are defining "MY_ICON" as a constant 200

And the source code, rsrcpayload is:

To retrieve the data(shellcode) from the resources section, I have added the following code:

```
// Retrieve shellcode payload from resources section
res = FindResource(NULL, MAKEINTRESOURCE(MY_ICON), RT_RCDATA);
resHandle = LoadResource(NULL, res);
shellcodePayload = (char *) LockResource(resHandle);
lengthOfshellcodePayload = SizeofResource(NULL, res);
```

We are using the "FindResource" function:

Here's the syntax of it:

And the important parameters are lpname(Name of the resource), and lptype(Type of the resource).

So, here the "FindResource" API will look inside the resource file, and search for the RT_RCDATA file type, and MY_ICON name file.

If the function succeeds, the return value is a handle to the specified resource's information block. To obtain a handle for the resource, pass this handle to the LoadResource function.

Now we will be using the "LoadResource" function:

```
C++

HGLOBAL LoadResource(
  [in, optional] HMODULE hModule,
  [in] HRSRC hResInfo
);
```

It takes the "res" as its parameter, which we got from the "FindResource" function.

If the function succeeds, the return value is a handle to the data associated with the resource.

Now we have the rectangle, so we will use the "LockResource" function we got the first pointer to our byte, where the shellcode is loaded.

Now the rest of the code is the same, as earlier we used, like then we use the "VirtualAlloc" function, then we use "RtlMoveMemory" then use "VirtualProtect" function, and then we create a thread using the "CreateThread" function.