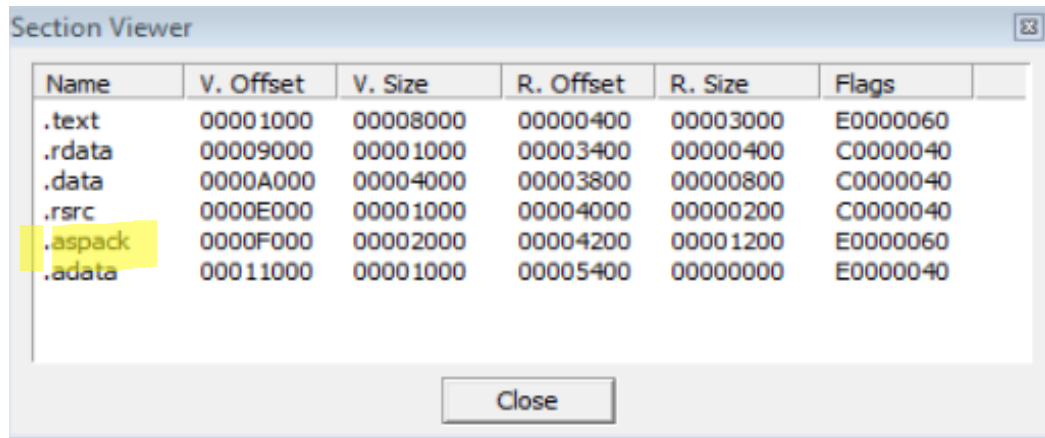


This is the next section in the lab for Module 6. Feedback is greatly appreciated.

The Ixshe\_aspack.bin file appears to be packed as indicated by the .aspack section name, by clicking on the EP Section

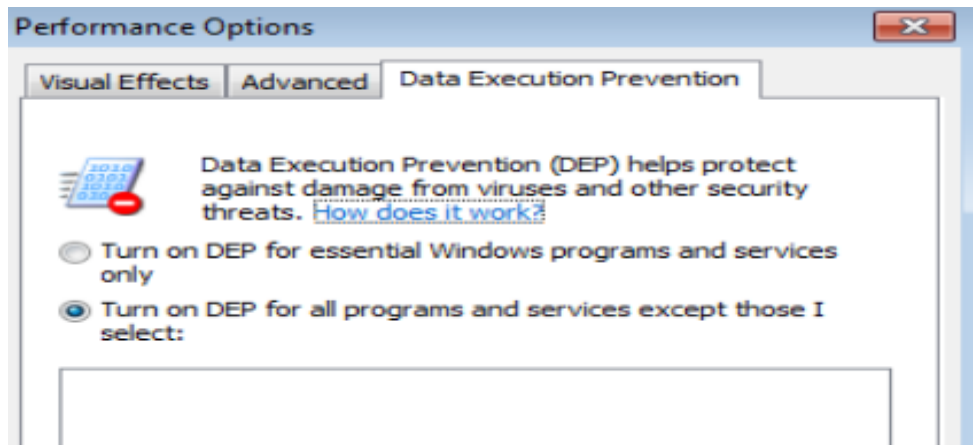


Section Viewer

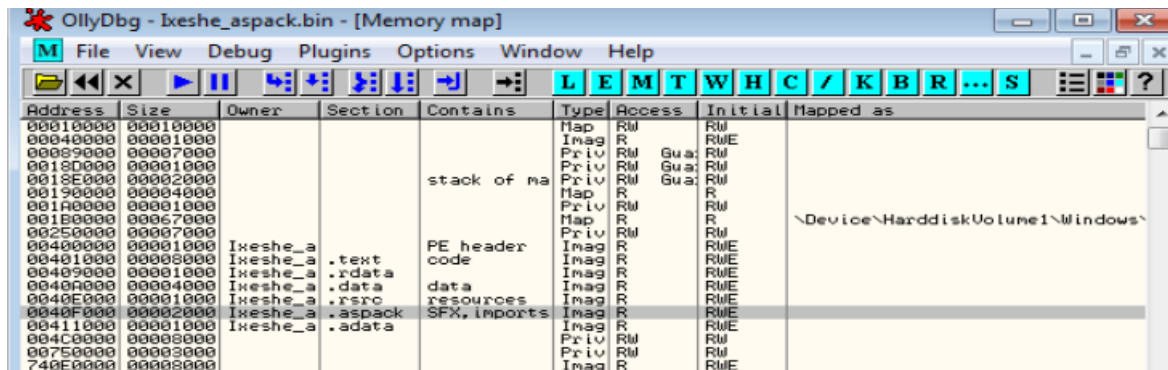
Name	V. Offset	V. Size	R. Offset	R. Size	Flags
.text	00001000	00008000	00000400	00003000	E0000060
.rdata	00009000	00001000	00003400	00000400	C0000040
.data	0000A000	00004000	00003800	00000800	C0000040
.rsrc	0000E000	00001000	00004000	00000200	C0000040
.aspack	0000F000	00002000	00004200	00001200	E0000060
.adata	00011000	00001000	00005400	00000000	E0000040

Close

For the next step, I turn on the Data Execution Prevention, for all the programs.



Next, I place the Ixshe file in OllyDBG to see if its, readonly, readwrite, and/or executable



Address	Size	Owner	Section	Contains	Type	Access	Initial	Mapped as
00010000	00010000				Map	RW	RW	
00040000	00001000				Image	R	RW	
00090000	00007000				Priv	RW	Gu	
00180000	00001000				Priv	RW	Gu	
0018E000	00002000			stack of na	Priv	RW	Gu	
00190000	00004000				Map	R	R	
001A0000	00001000				Priv	RW	R	
001B0000	00007000				Map	R	R	
00250000	00007000				Priv	RW	R	
00400000	00001000	Ixeshe_a		PE header	Image	R	RW	
00401000	00008000	Ixeshe_a	.text	code	Image	R	RW	
00409000	00001000	Ixeshe_a	.rdata		Image	R	RW	
0040A000	00004000	Ixeshe_a	.data	data	Image	R	RW	
0040E000	00001000	Ixeshe_a	.rsrc	resources	Image	R	RW	
0040F000	00002000	Ixeshe_a	.aspack	SFX, imports	Image	R	RW	
00411000	00001000	Ixeshe_a	.adata		Image	R	RW	
004C0000	00008000				Priv	RW	RW	
00750000	00003000				Priv	RW	RW	
740E0000	00008000				Image	R	RW	

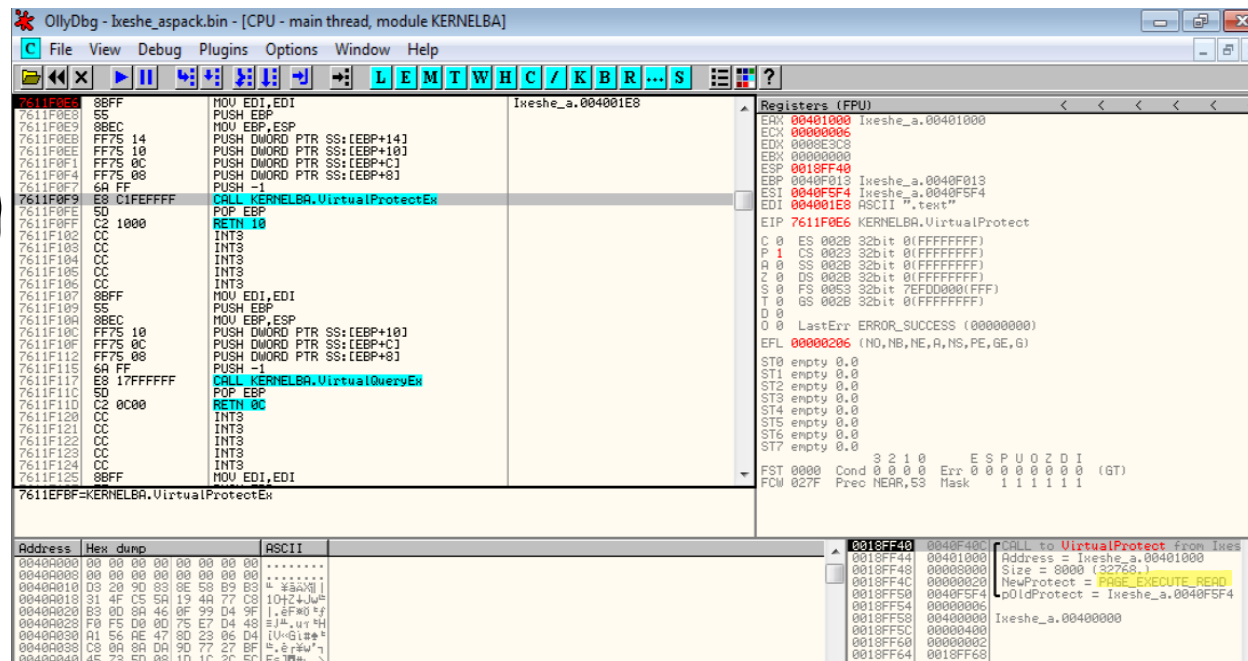
It looks like the .aspack file is Readonly

The entry point is the .aspack, the file appears to be packed, and is readonly

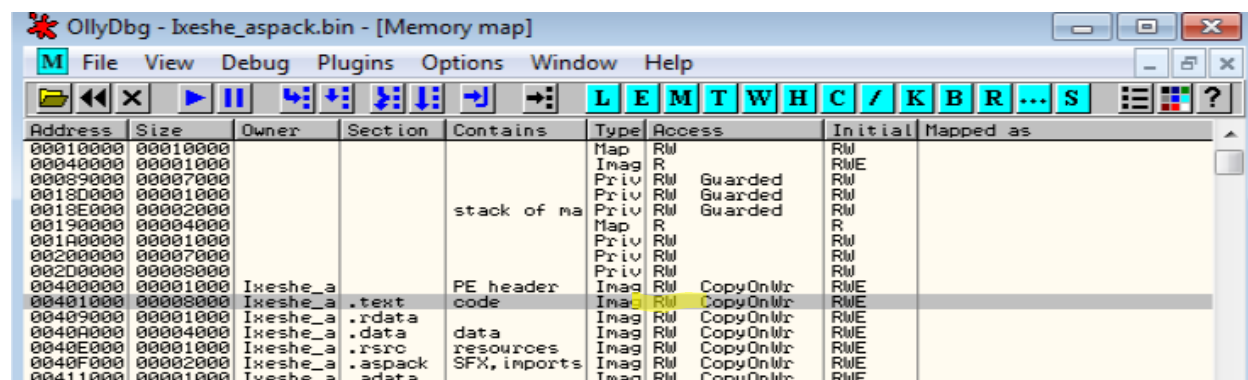
At this point, I began to struggle as far as using the step over/into commands, so I had to go to solution. As I can see I was beginning to go down a wrong path. I needed to set breakpoints, which help with these commands.

I began to search for the location of the VirtualProtect

Then I clicked the run command until I was able to get the Page\_Execute\_Read. (Success!)



As you can see below, now the .text has been changed to RW.



Again, looking into the solution, removed the breakpoint and clicked run. Not sure where, the text message is, however. The next step is to convert the data to code by removing the analysis from the module option.

After that, I went back to the memory map, and noticed the executable had changed.

OllyDbg - ixshe\_aspack.bin - [Memory map]

File View Debug Plugins Options Window Help

Address Size Owner Section Contains Type Access Initial Mapped as

00010000	00010000				Map	RM	RM	
00020000	00010000				Priv	RM	RM	
00030000	00010000				Priv	RM	RM	
00040000	00010000				Inag	R	RWE	
00050000	00007000				Priv	RM	Gua: RM	
00100000	00010000				Priv	RM	Gua: RM	
00180000	00004000			stack of na	Priv	RM	Gua: RM	
00190000	00004000				Map	R	R	
001A0000	00001000				Priv	RM	RM	
001B0000	00000000				Map	R	R	
00250000	00003000				Priv	RM	RM	\Device\HarddiskVolume1\Windows\System32\locale.nls
00290000	00007000				Priv	RM	Gua: RM	
00310000	00007000				Priv	RM	RM	
00400000	00010000	ixshe_a		PE header	Inag	R	RWE	
00401000	00008000	ixshe_a	.text	code	Inag	R	RWE	
00409000	00001000	ixshe_a	.rdata		Inag	R	RWE	
0040A000	00004000	ixshe_a	.data	data	Inag	R	RWE	
0040B000	00001000	ixshe_a	.rsrc	resources	Inag	R	RWE	
0040F000	00002000	ixshe_a	.aspack	SFX, imports	Inag	R	RWE	
00411000	00001000	ixshe_a	.adata		Inag	R	RWE	
00510000	00002000				Priv	RM	Gua: RM	
0051F000	00001000			stack of th	Priv	RM	Gua: RM	
00530000	00010000				Priv	RM	RM	

After that, I saved the dump using OllyDump. However, the next steps called for a tool Import REconstructor. I was not able to find the tool in the VM.

**OlllyDump - Ixeshe\_aspack.bin**

Start Address:  Size:

Entry Point:  -> Modify:

Base of Code:  Base of Data:

☒ Fix Raw Size & Offset of Dump Image

Section	Virtual Size	Virtual Offset	Raw Size	Raw Offset	Characteristics
.text	00008000	00001000	00008000	00001000	E0000060
.rdata	00001000	00009000	00001000	00009000	C0000040
.data	00004000	0000A000	00004000	0000A000	C0000040
.rsrc	00001000	0000E000	00001000	0000E000	C0000040
.aspack	00002000	0000F000	00002000	0000F000	E0000060
.adata	00001000	00011000	00001000	00011000	E0000040

☒ Rebuild Import

- ☒ Method1 : Search JMP[API] | CALL[API] in memory image
- ☐ Method2 : Search DLL & API name string in dumped file