Secure Coding -Lab11

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26/04/21 L39 +L40

1.

In visual studio i have created a c++ visual studio project and then i have given small c++ code which prints hello world and then builded it with dep and aslr disabled

We can see the .exe built and now i am running this application

hello_world.tlog	03-05-2021 14:24	File folder	
hello_world.Build.CppClean	03-05-2021 14:24	Text Document	1 KB
i hello_world	03-05-2021 14:24	Application	48 KB
hello_world.exe	03-05-2021 14:24	RECIPE File	1 KB
hello_world.ilk	03-05-2021 14:24	Incremental Linke	435 KB
hello_world	03-05-2021 14:24	Text Document	1 KB
🔓 hello_world.pdb	03-05-2021 14:24	Program Debug D	468 KB
hello_world.vcxproj.FileListAbsolute	03-05-2021 14:24	Text Document	1 KB
Source	03-05-2021 14:24	3D Object	53 KB
ı≝ı vc142.idb	03-05-2021 14:24	VC++ Minimum R	155 KB
₽ vc142.pdb	03-05-2021 14:24	Program Debug D	404 KB

We can see it is printing the hello world

```
C:\Users\suman\source\repos\hello_world\Debug\hello_world.exe

HelloWorld
```

before enabling DEP & ASLR.

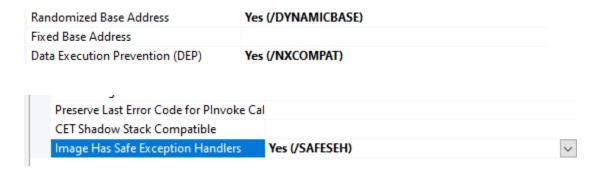
Now i am checking the status of the dep and aslr in process explorer

<u>File Options View Process Fi</u>	ind <u>U</u> se	rs <u>H</u> elp					
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Process	CPU	Private Bytes	Working Set	PID Description	Company Name	DEP	ASLR
Security Health Service.exe		3,872 K	7,324 K	7212 Windows Security Health Se	Microsoft Corporation	n/a	ASLR
svchost.exe		2,284 K	5,352 K	7348 Host Process for Windows S		n/a	ASLR
svchost.exe		2,448 K	5,736 K	7444 Host Process for Windows S	Microsoft Corporation	n/a	ASLR
svchost.exe	< 0.01	5,332 K	7,496 K	7488 Host Process for Windows S	Microsoft Corporation	n/a	ASLR
svchost.exe		1,596 K	1,272 K	7976 Host Process for Windows S	Microsoft Corporation	n/a	ASLR
svchost.exe	< 0.01	3,120 K	2,916 K	7808 Host Process for Windows S	Microsoft Corporation	n/a	ASLR
svchost.exe		2.684 K	5.056 K	7788 Host Process for Windows S	Microsoft Corporation	n/a	ASLR
svchost.exe		5,216 K	11,264 K	4364 Host Process for Windows S	Microsoft Corporation	n/a	ASLR
svchost.exe		1,260 K	1,004 K	9812 Host Process for Windows S	Microsoft Corporation	n/a	ASLR
svchost.exe	0.16	10.604 K	18.628 K	11516 Host Process for Windows S	Microsoft Corporation	Enabled (permane	ASLR
sychost.exe		7.908 K	18.328 K	10072 Host Process for Windows S	Microsoft Corporation	Enabled (permane	ASLR
svchost.exe		1.752 K	3.792 K	8412 Host Process for Windows S		n/a	ASLR
svchost.exe	< 0.01	3.604 K	13.760 K	1788 Host Process for Windows S	Microsoft Corporation	Enabled (permane	ASLR
sychost.exe		6.836 K	7.008 K	8148 Host Process for Windows S	Microsoft Corporation	Enabled (permane	ASLR
svchost.exe		1,700 K		12052 Host Process for Windows S		Enabled (permane	
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svchost.exe		1.456 K		11724 Host Process for Windows S		Enabled (permane	
svchost.exe		1.416 K		11756 Host Process for Windows S		n/a	ASLR
sychost.exe	< 0.01	31.440 K	59.636 K	13752 Host Process for Windows S		Enabled (permane	
sass.exe	0.01	8.960 K	13.080 K	772 Local Security Authority Proc		n/a	ASLR
fontdryhost.exe	0.01	1.264 K	328 K	1012	. Microsoft Corporation	n/a	n/a
■ GoogleCrashHandler.exe		1.632 K	172 K	1764		n/a	n/a
GoogleCrashHandler64.exe		1.668 K	128 K	3744		n/a	n/a
csrss.exe	0.31	2.912 K	4.296 K	9108		n/a	n/a
winlogon.exe	0.31	2.532 K	4,230 K	8052		n/a	n/a
fontdryhost.exe	< 0.01	6.152 K	2.888 K	8252		n/a	n/a
dwm.exe	2.11	6.63.560 K	1.05.044 K			n/a	n/a
= explorer.exe	1.61	1.00.388 K		11728 Windows Explorer	Microsoft Corporation	Enabled (permane	ASLR
Security Health Systray.exe		1.772 K	3.528 K	9372 Windows Security notificatio		Enabled (permane	
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	X M	Ø			h h h		
Process	CPU	Private Bytes	Working Set	PID Description	Company Name	DEP	ASLR
SecurityHealthService.exe		3,872 K	7,324 K	7212 Windows Security Health Se	Microsoft Corporation	n/a	ASLR
svchost.exe		2,284 K	5,352 K	7348 Host Process for Windows S		n/a	ASLR
svchost.exe		2,448 K	5,736 K	7444 Host Process for Windows S		n/a	ASLR
** svchost.exe		5,332 K	7,496 K	7488 Host Process for Windows S		n/a	ASLR
svchost.exe		1,596 K	1,272 K	7976 Host Process for Windows S		n/a	ASLR
svchost.exe		3,120 K	2,916 K	7808 Host Process for Windows S		n/a	ASLR
svchost.exe		2,684 K 5,216 K	5,056 K 11,264 K	7788 Host Process for Windows S 4364 Host Process for Windows S		n/a	ASLR ASLR
svchost.exe		1,260 K	1,004 K	9812 Host Process for Windows S		n/a n/a	ASLR
svchost.exe	0.06	10.704 K		11516 Host Process for Windows S		n/a Enabled (permane	
svchost.exe	0.06	7,908 K		10072 Host Process for Windows S		Enabled (permane	
svchost.exe		1,752 K	3 792 K	8412 Host Process for Windows S		n/a	ASLR
	< 0.01	3,604 K	13.760 K	1788 Host Process for Windows S		Enabled (permane	
svchost.exe	0.01	6,836 K	7.008 K	8148 Host Process for Windows S		Enabled (permane	
sychost.exe		1,700 K		12052 Host Process for Windows S		Enabled (permane	
sychost exe		2,900 K	2.892 K	8324 Host Process for Windows S		Enabled (permane	
sychost exe		1.456 K		11724 Host Process for Windows S		Enabled (permane	
sychost.exe		1.416 K		11756 Host Process for Windows S		n/a	ASLR
sychost.exe	0.27	40.892 K		13752 Host Process for Windows S		Enabled (permane	
sass.exe	0.02	8.756 K	13.284 K	772 Local Security Authority Proc		n/a	ASLR
■ fontdrvhost.exe		1,264 K	328 K	1012		n/a	n/a
■ GoogleCrashHandler.exe		1,632 K	172 K	1764		n/a	n/a
■ GoogleCrashHandler64.exe		1,668 K	128 K	3744		n/a	n/a
csrss.exe	0.30	2,912 K	4,288 K	9108		n/a	n/a
■ winlogon.exe		2,532 K		8052		n/a	n/a
fortdrvhost.exe		6.152 K		8252		n/a	n/a
dwm.exe	2.32	6,60,276 K	1,01,768 K			n/a	n/a
— implorer exe — implore	0.14	99,504 K		11728 Windows Explorer	Microsoft Corporation	Enabled (permane	
SecurityHealthSystray.exe		1,772 K		9372 Windows Security notificatio		Enabled (permane	
	< 0.01	2,196 K		10968 mic tray icon	Conexant	Enabled (permane	
D devenv.exe	1.27	3,20,952 K			Microsoft Corporation	Enabled (permane	
PerfWatson2.exe	0.01	40,908 K	31,564 K	1548 PerfWatson2.exe	Microsoft Corporation	Enabled (permane	
	< 0.01	40.084 K	32,220 K		Microsoft	Enabled (permane	
ServiceHub.ldentityH	0.05	43,908 K			Microsoft	Enabled (permane	
	< 0.01	61,596 K			Microsoft	Enabled (permane	
	< 0.01	57,840 K	21,972 K	2896 Service Hub . Settings Host. exe		Enabled (permane	
	< 0.01	5,86,600 K	43,984 K	6016 ServiceHub.Host.CLR x86	Microsoft	Enabled (permane	
ServiceHub.Threaded	0.97	63,708 K	25,876 K		. Microsoft	Enabled (permane	
	< 0.01	79,104 K 56,740 K	28,204 K	284 ServiceHub.Host.CLR x86	Microsoft	Enabled (permane Enabled (permane	
ServiceHub, TestWind	< 0.01	77,956 K	20,884 K 44,324 K	11568 ServiceHub.TestWindowSto 7300 ServiceHub.DataWarehouse		Enabled (permane	
	< 0.02	12.728 K	10.764 K	2808 Microsoft (R) Visual C++ Pac		Enabled (permane	
	< 0.01	28,796 K	44 544 K	32 MSBuild exe	Microsoft Corporation	Enabled (permane	
conhost exe	4 0.01	6.352 K	10.676 K	3260 Console Window Host	Microsoft Corporation	Enabled (permane	
	< 0.01	29,296 K	58.152 K	352 ScriptedSandbox64.exe	Microsoft Corporation	Enabled (permane	
	< 0.01	43,300 K		11836 Microsoft (R) Visual C++ Pac		Enabled (permane	
rundl32.exe	. 0.01	1.668 K		8428 Windows host process (Run		Enabled (permane	
□ Orocexp.exe		4,212 K		2652 Sysintemals Process Explorer		Enabled (permane	
	1.12	37,960 K		14228 Sysintemals Process Explorer			
proceso 64 exe	7.01	884 K	4.568 K		,	Disabled (perman	
© procexp64.exe □ Tello world exe		7.232 K		8300 Console Window Host	Microsoft Corporation	Enabled (permane	. ASLR
	16.40				Oracle Corporation	Enabled (permane	
in helio_world.exe ggg conhost.exe	16.40	1.392 K	364 K	900 Java Update Scheduler			
	0.02				Conexant Systems, Inc.	Enabled (permane	
□ ■ Selo_world exe on conhost.exe jusched.exe oh SmartAudio3.exe		1,392 K	24,408 K		Conexant Systems, Inc.	Enabled (permane Enabled (permane	. ASLR
□ nelo_world exe □ conhost.exe □ usched exe		1,392 K 71,228 K	24,408 K 4,376 K	12160 Audio Controls Control Panel	Conexant Systems, Inc. Conexant Systems, Inc.		ASLR ASLR

We can see they are disabled

And now i am enabling them in visual studio by going to linker and advanced settings in debugger properties



We can see from the above two pictures three of them are enabled

And now again i am rebuilding it and checking the status of them

after enabling DEP & ASLR.

@ Process Explorer - Sysinternals: www.sysinternals.com [DESKTOP-G3S3J0K\suman] Eile Options View Process Find Users Help

SecurityHealthService exe	Process	CPU	Private Bytes	Working Set	PID Description	Company Name	DEP	ASLR
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Peychot ase		< 0.01						
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19 svchost exe 1,756 k 17,58 k 10,072 host Process for Windows S. Microsoft Corporation 5 ASI, R 19 19 19 19 19 19 19		0.06						
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■ GoogleCrashHandier see		0.02				Microsoft Corporation		
GoogleCrashHandler64 exe								
□ crass exe 0.24 2.988 K 3.840 K 9108								
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Sporter exxe				4,496 K			n/a	n/a
□ perlorer ave □ SecurityHealthSystray exe □ McTray64 exe □ Cyd devenv exe □ PerfWistorn2.exe □ McTray64 exe □ McTray64 exe □ PerfWistorn2.exe □ McTray64 exe □ McTray64 exe □ Perfwistorn2.exe □ McTray64 exe □ Perfwistorn2.exe □ McTray64 exe □ Mc	fontdrvhost.exe						n/a	n/a
SecurityHeathSystray.eve	dwm.exe			2,38,520 K	10464		n/a	n/a
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We can see from the above images that it is showing they are enabled .