

Secure Coding -Lab11

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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

```
1 #include <iostream>
2 using std::cout;
3 using std::endl;
4
5
6 int main() {
7
8 {
9     for(unsigned i=0;i<1000000000;++i)
10         cout << "HelloWorld" << endl;
11 }
12 }
13 return 0;
14 }
```

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
hello_world	03-05-2021 14:24	Application	48 KB
hello_world.exe	03-05-2021 14:24	RECIPE File	1 KB
hello_world.ilink	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
vc142.idb	03-05-2021 14:24	VC++ Minimum R...	155 KB
vc142.pdb	03-05-2021 14:24	Program Debug D...	404 KB

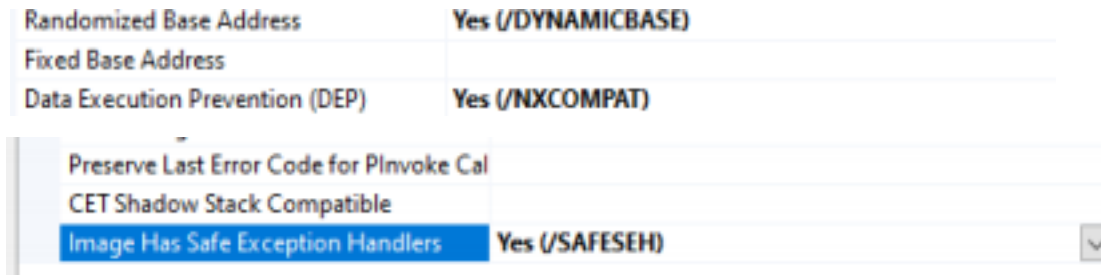
We can see it is printing the hello world

[illegible]

before enabling DEP & ASLR.

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

[illegible]

We can see from the above images that it is showing they are enabled .