

CSE 2010 || Secure Coding

WIN 20-21

Lab: 11

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Topic: Creating secure and safe executable

Lab experiment - Creating secure and safe executable

Task

Download and install visual studio (recent edition)

Write a C++ code of your own to build an executable and run the same.

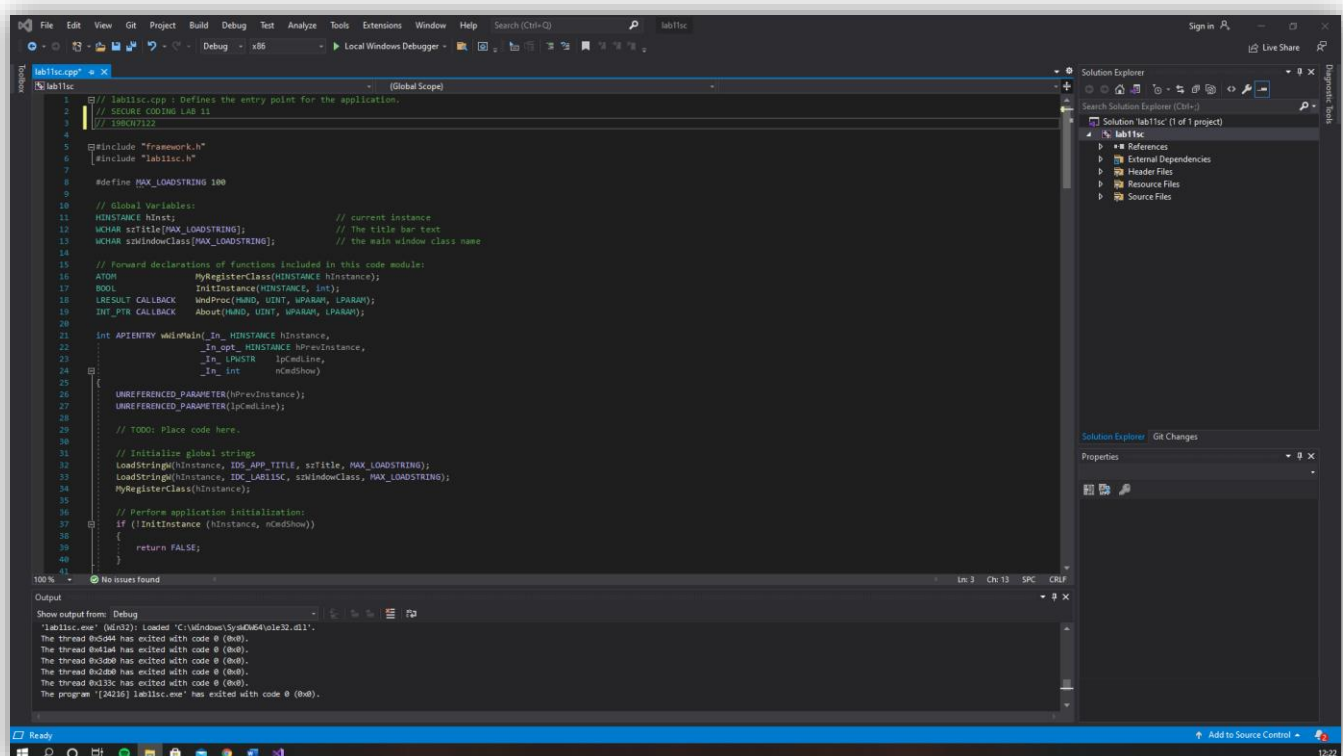
Download process explorer and verify the DEP & ASLR status

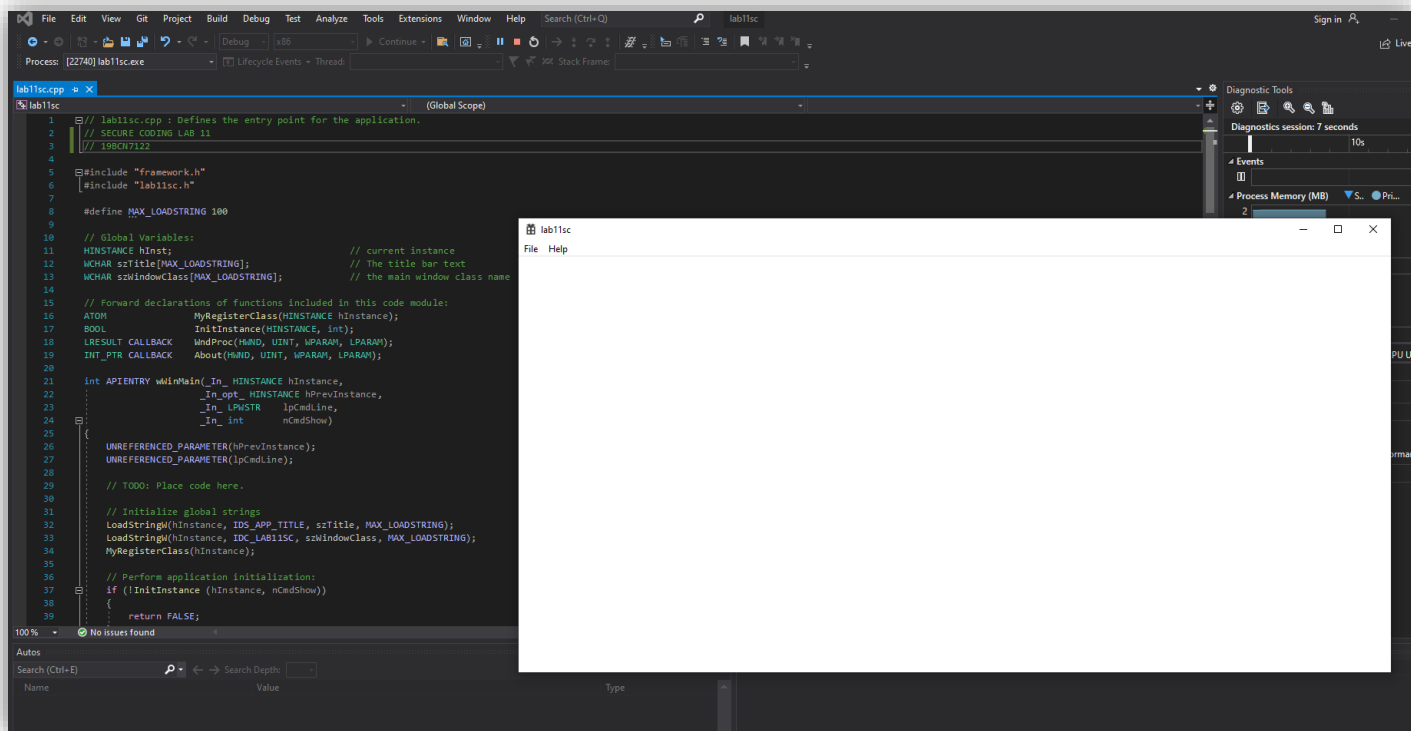
Enable software DEP, ASLR and SEH in the visual studio and rebuild the same executable

Again, verify the DEP & ASLR status in the process explorer

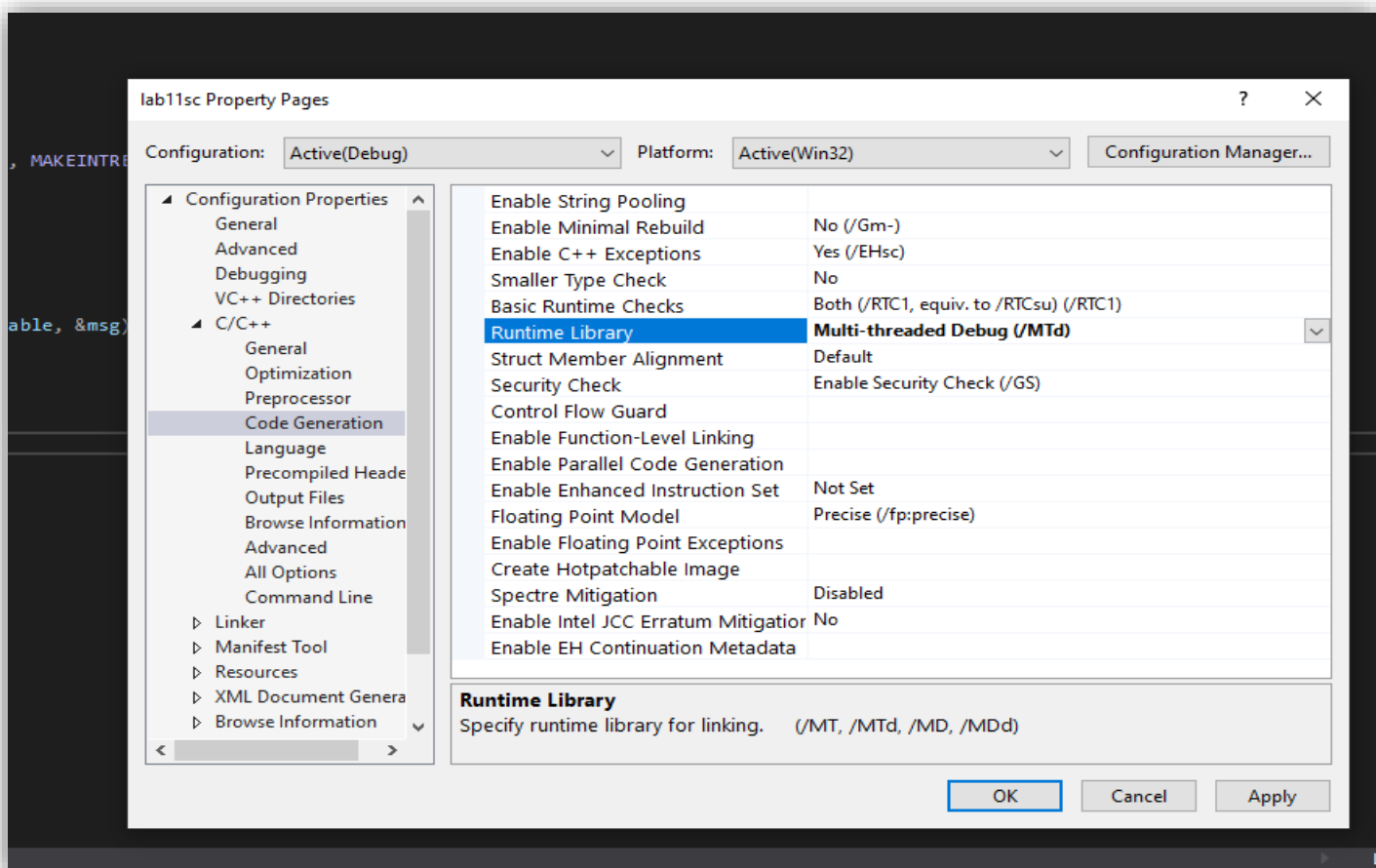
Report the same with separate screenshot - before and after enabling DEP & ASLR.

➔ Building a executable

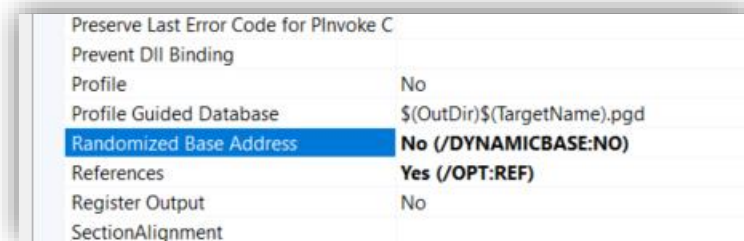
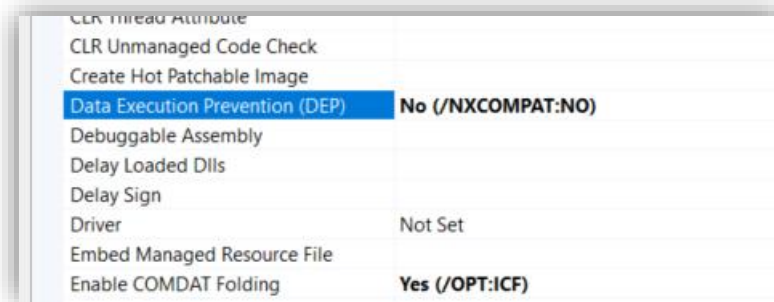




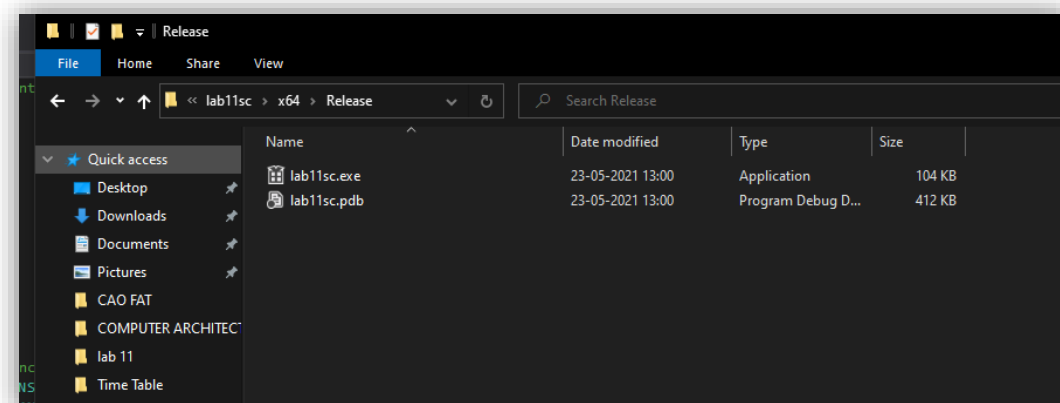
Now as we know that in Visual Studio DEP & ASLR is enabled by default, we have to disable them by going to property pages of the project build.



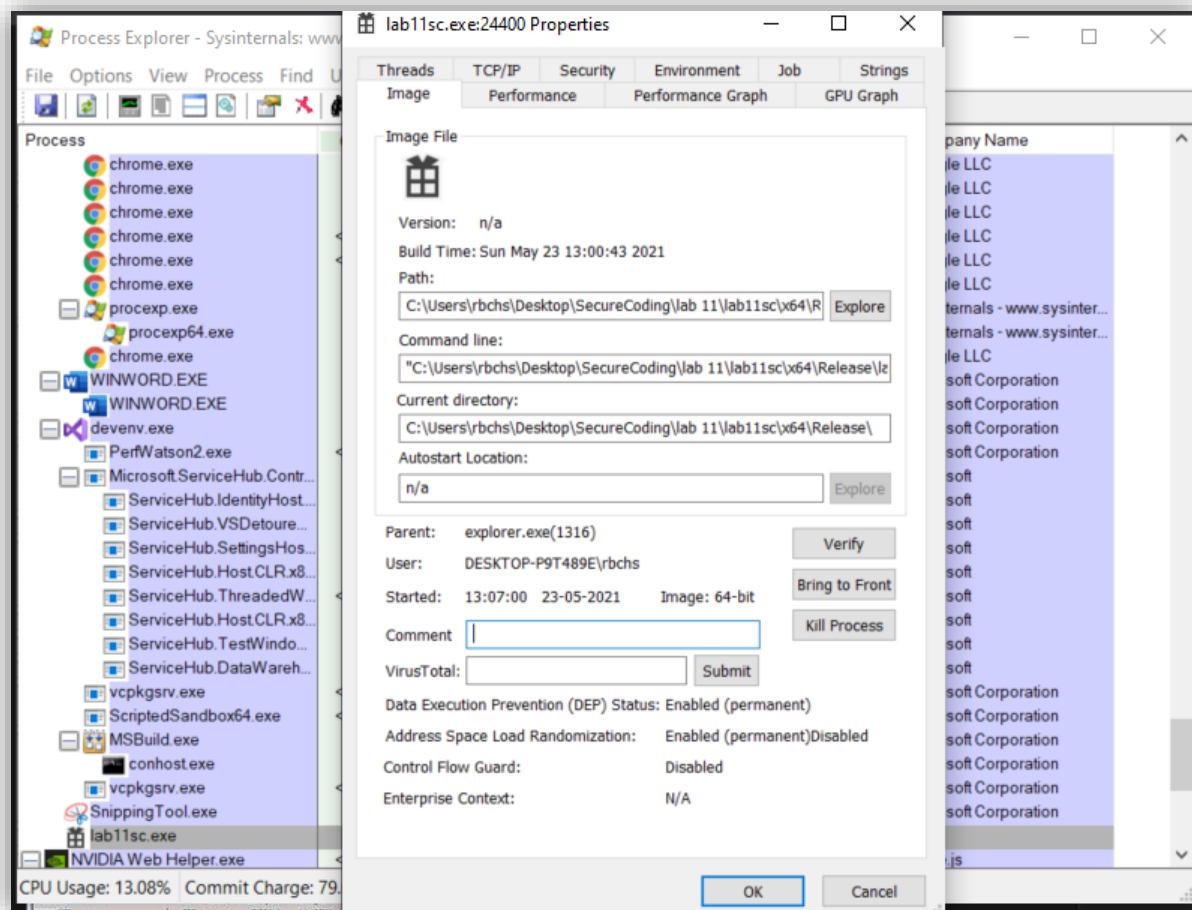
As we are in the property pages, now we have to disable the DEP & ASLR



After disabling the DEP & ASLR through the property pages, we have to build the exe by setting the project build to release mode and exe is created



Now we have to install the process explorer and run it, there if we run the process explorer and the exe we created at same time, our exe will be shown in process explorer



Even though, I disabled the DEP and ASLR in the project build the process explorer is showing that DEP and ASLR is enabled, that draws to a conclusion that Windows is programmed to enable the services by default.

So even though an exe isn't build enabling the dep and aslr windows by default will enable it.