PROJ 8: Disassembling C on Windows

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MALWARE ANALYSIS & DEFENSE

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Introduction: In this lab, we are going to compile a C program on a Windows 2008 server using Visual Studio Express 2008 and also we are going to examine it in the IDA Pro disassembler to learn what it looks like in assembly language.

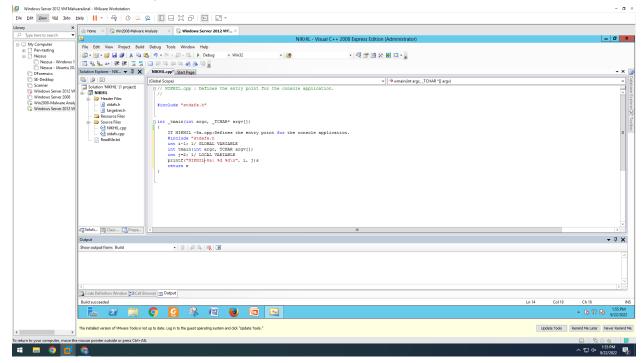
Procedure:

Launching Visual Studio Express 2008

• Go to Start and Type Visual Studio Express 2008 to open the application.

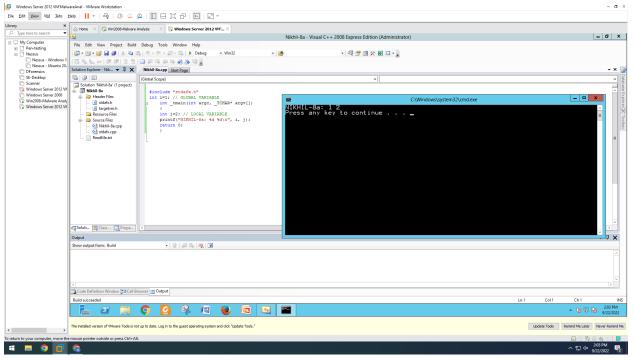
Creating a simple C Program

- In the menu bar click on File/New Project.
- A new window will pop up and select Win32 on the left panel and Win32 Console on the right panel.
- Now Type "Nikhil-8a" in the name and click OK/ Next/Finish
- Now we will write a code in c :



Compiling your Program

- Click on Build and Build Solution you see in output 1 success.
- Take a fullscreen screenshot of the desktop.

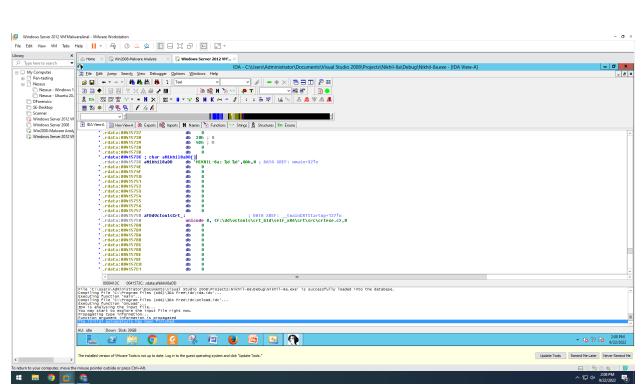


Running Your Program

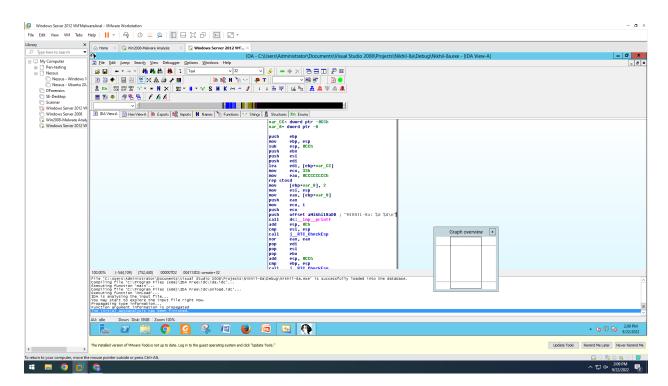
- Click on Debug and Start Without Debugging you see new windows as output.
- Take a fullscreen screenshot of the desktop.

Disassembling the EXE

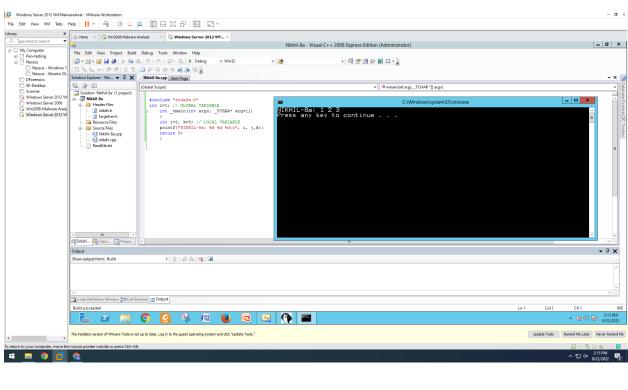
- Now close the window by hitting enter and minimize the Visual Studio.
- Start the IDA Pro Free and in the "About" box, click OK.
- Agree to the license and close the help window.
- In the Welcome to IDA box click New and double click PE Executable.
- Now we have to select the same file we created on Visual Studio i.e. "Nikhil-8a".
- IDA-Pro will be loaded in Graph mode, Expand the strings windows and find "Nikhil-8a %d %d\n" and double click on it.

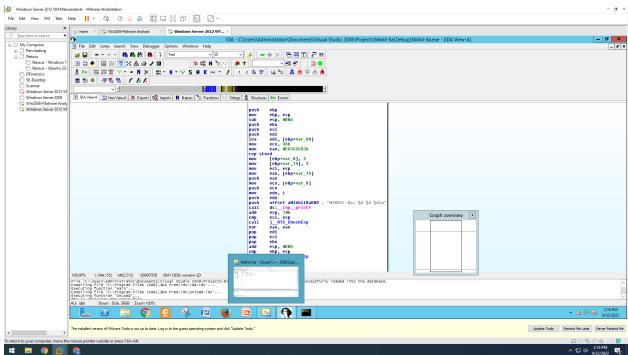


- You will have to look for DATA XREF right next to "Nikhil-8a", take a cursor to "DATA XREF" and you will see a yellow box.
- Now double click on wmain + 32 now you will see the C program appears.
- Save an Image of Push cmd followed by "Nikhil-8a %d %d\n"



CHALLENGE





Conclusion: To Conclude with this lab we learned how to Create, Compile and Run a simple C Program in Visual Studio Express 2008 on the Windows 2008 server and also get to know how the IDA pro disassembler works.