Lab-11

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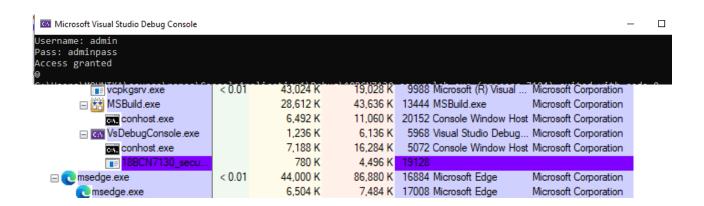
Lab experiment – Creating secure and safe executable

1) C++ Code & building the Executable

```
#include <iostream>
int main(void)
     int authentication = 0;
     char cUsername[10];
     char cPassword[10];
     std::cout << "Username: ";</pre>
     std::cin >> cUsername;
     std::cout << "Pass: ";</pre>
     std::cin >> cPassword;
     if (std::strcmp(cUsername, "admin") == 0 &&
std::strcmp(cPassword, "adminpass") == 0)
          authentication = 1;
     }
     if (authentication)
          std::cout << "Access granted\n";</pre>
           std::cout << (char)authentication;</pre>
     }
     else
     {
           std::cout << "Wrong username and password\n";</pre>
     }
     return (0);
```

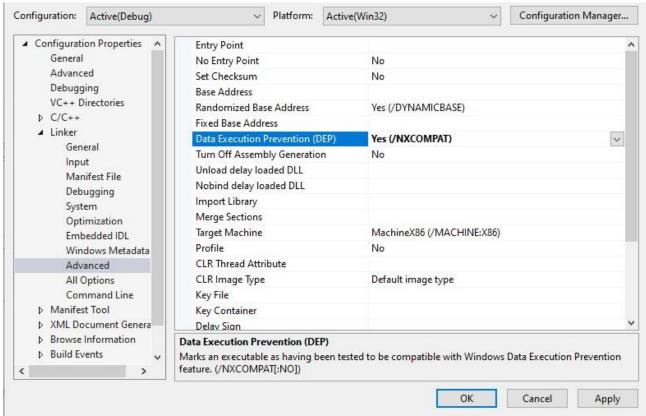


2) Verifying the DEP & ASLR status in Process Explorer



You can see DEP disabled & No ASLR.

3) Rebuilding the same executable After enabling DEP & ASLR



As you can see, I have enabled DEP, ASLR, SEH above.

I have Rebuilded my project and run the same and we can verify the status of DEP, ASLR, SEH.

4) Verifying the DEP & ASLR status in Process Explorerafter enabling

