Windows API Exploitation Recipes for Red – Blue Teams

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Process Memory:Read Basics with Toolhelp32ReadProcessMemory

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Reading Process memory

- Process Debug privileges

- What can we read?
  - Anything in memory
  - Might have to search to find interesting information
  - Could recover sensitive information e.g. passwords, hashes, tokens etc.

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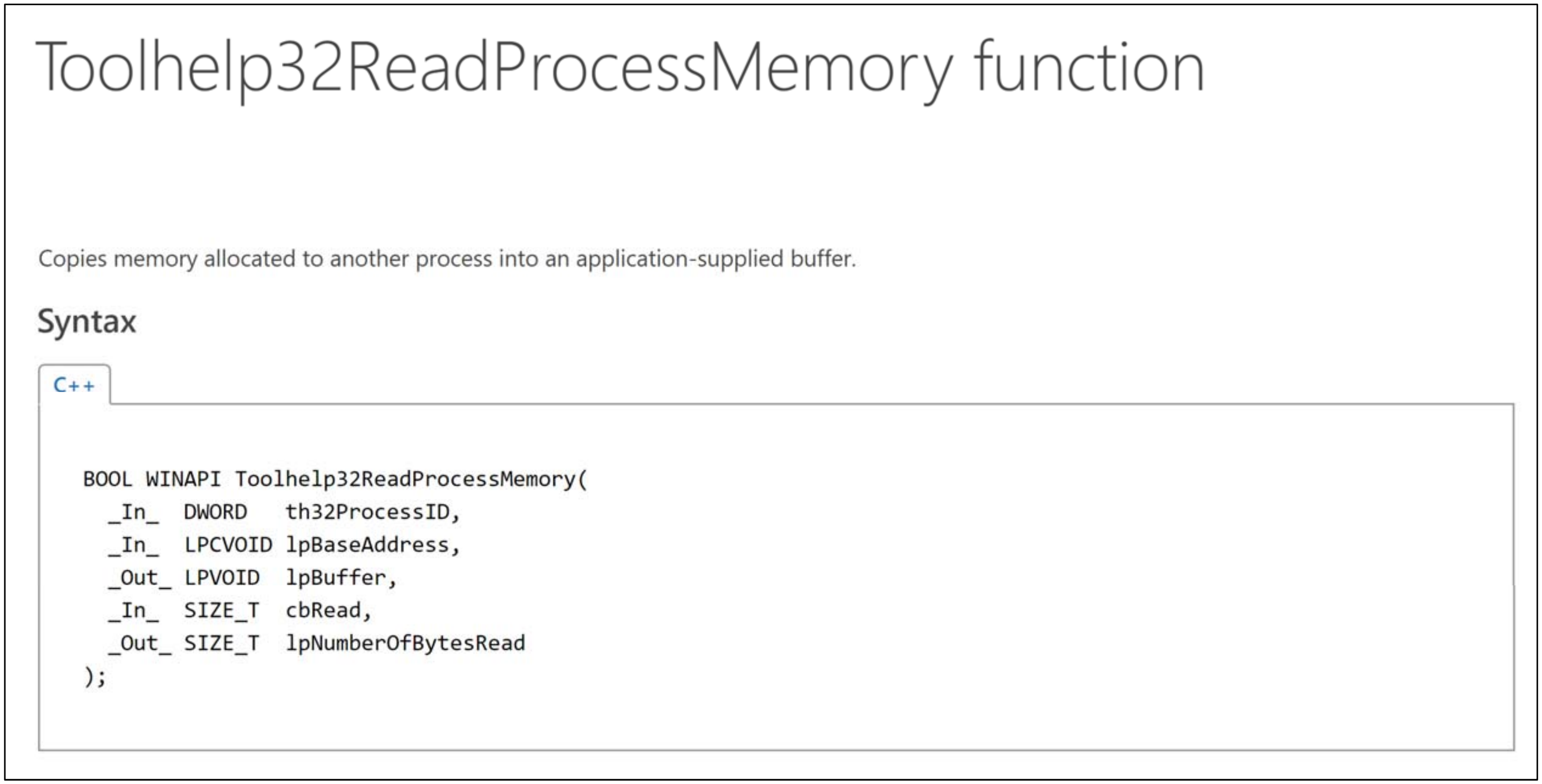
Toolhelp32ReadProcessMemory



Toolhelp32ReadProcessMemory function

Copies memory allocated to another process into an application-supplied buffer.

Syntax

```
BOOL WINAPI Toolhelp32ReadProcessMemory(
  _In_  DWORD   th32ProcessID,
  _In_  LPCVOID lpBaseAddress,
  _Out_ LPVOID  lpBuffer,
  _In_  SIZE_T  cbRead,
  _Out_ SIZE_T  lpNumberOfBytesRead
);
```

https://msdn.microsoft.com/en-us/library/windows/desktop/ms686826(v=vs.85).aspx

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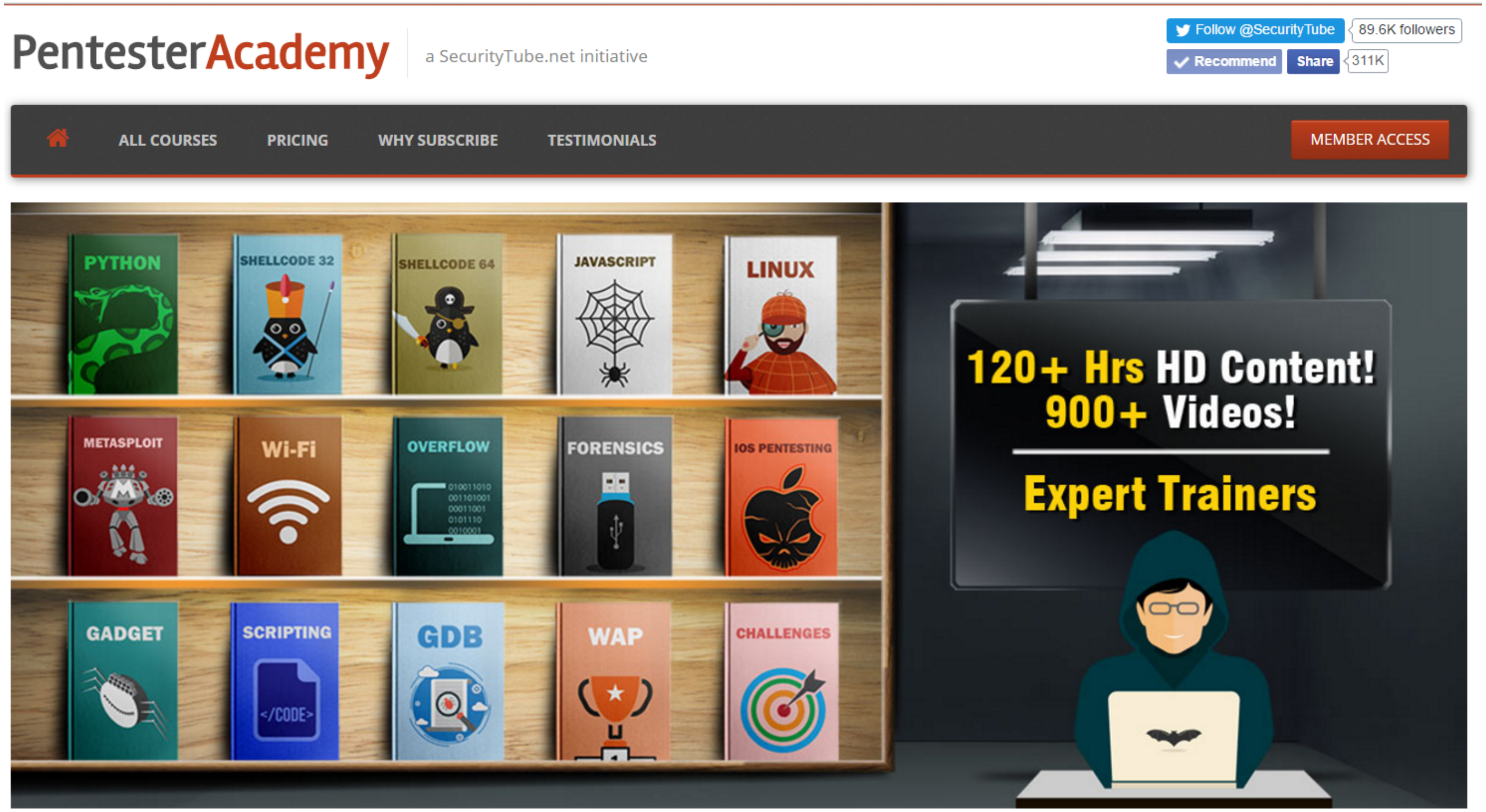
Thank You!



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