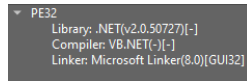


Revenge RAT Challenge

Question 1:

What compiler is used for this sample?

I used Detect It Easy on the malware

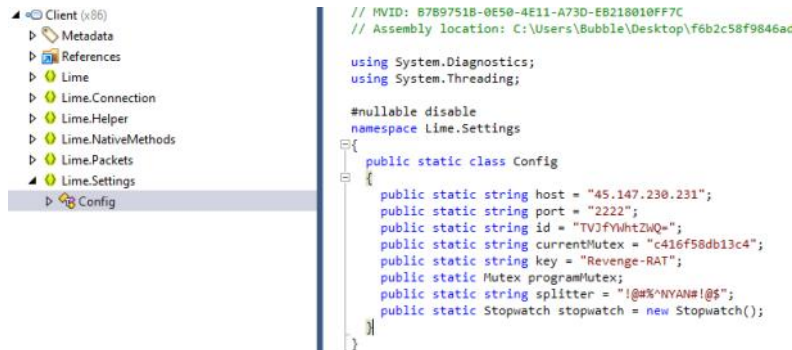


Answer: VB.NET

Question 2:

What is the mutex name checked by the malware at the start of execution?

I opened the malware with JetBrains dotPeek and found the Mutex under the Lime.Settings - Config



Answer: c416f58db13c4

Question 3:

What function was used to get information about the CPU?

I found the function under Lime.Helper - IdGenerator

```
public static string GetCpu()
{
    try
    {
        return Registry.GetValue("HKEY_LOCAL_MACHINE\\HARDWARE\\DESCRIPTION\\SYSTEM\\CENTRALPROCESSOR\\0", "ProcessorNameString", (object) null).ToString();
    }
    catch
    {
        return "N/A";
    }
}
```

Answer: GetCpu

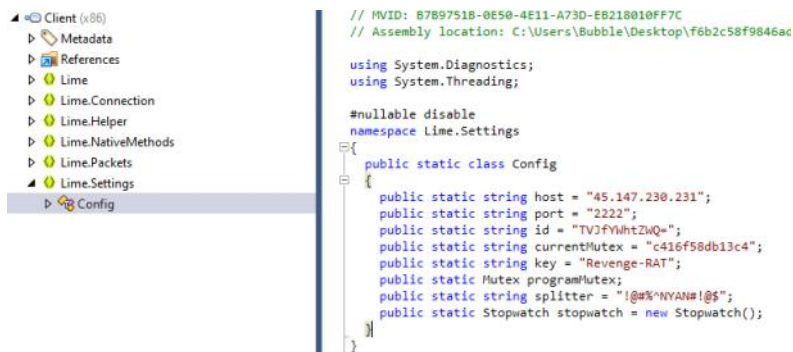
Question 4:

What key was used during the "SendInfo" function?

In the same code from question 3 I saw the SendInfo() function but I didn't find any answer for this so I used the hint

```
public static string SendInfo()
{
    return "Information" + Config.key + Config.id + Config.key + StringConverter.Encode("_" + IdGenerator.GetHardDiskSerialNumber()) + Config.key + IdGenerator.GetIp() +
}
```

The hint said to check the malware configuration which this was same like question 2



The answer is for this is "revenge-rat" I don't have a clue why and how.

Answer: revenge-rat

Question 5:

What API was used by the malware to prevent the system from going to sleep?

I found this under the PreventSleep - Run()

```
using Lime.NativeMethods;

#nullable disable
namespace Lime.Helper
{
    public static class PreventSleep
    {
        public static void Run()
        {
            try
            {
                int num = (int) Native.SetThreadExecutionState(PreventSleep.EXECUTION_STATE.ES_CONTINUOUS | PreventSleep.EXECUTION_STATE.ES_DISPLAY_REQUIRED | PreventSleep.EXECUTION_STATE.ES_SYSTEM_REQUIRED);
            }
            catch
            {
            }
        }

        public enum EXECUTION_STATE : uint
        {
            ES_SYSTEM_REQUIRED = 1,
            ES_DISPLAY_REQUIRED = 2,
            ES_CONTINUOUS = 2147483648, // 0x80000000
        }
    }
}
```

Answer: SetThreadExecutionState

Question 6:

What variable stores the volume name and the function that imported the "GetVolumeInformationA" api?

I use the searched on GetVolumeInformationA and then found only one result with this function

```
using Lime.Helper;
using System;
using System.Runtime.InteropServices;
using System.Text;

#nullable disable
namespace Lime.NativeMethods
{
    public static class Native
    {
        [DllImport("kernel32", EntryPoint = "GetVolumeInformationA", CharSet = CharSet.Ansi, SetLastError = true)]
        public static extern int GVI(
            [MarshalAs(UnmanagedType.VBByRefStr)] ref string IP,
            [MarshalAs(UnmanagedType.VBByRefStr)] ref string V,
            int T,
            ref int M,
            ref int Q,
            [MarshalAs(UnmanagedType.VBByRefStr)] ref string J,
            int X);

        [DllImport("user32", EntryPoint = "GetForegroundWindow", CharSet = CharSet.Ansi, SetLastError = true)]
        public static extern IntPtr GFW();

        [DllImport("user32", CharSet = CharSet.Auto, SetLastError = true)]
        public static extern int GetWindowText(IntPtr hWnd, StringBuilder lpString, int cch);

        [DllImport("advapi32.dll", CharSet = CharSet.Ansi, SetLastError = true)]
        public static extern bool capGetDriverDescriptionA(
            short nDriver,
            [MarshalAs(UnmanagedType.VBByRefStr)] ref string lpzName,
            int cbName,
            [MarshalAs(UnmanagedType.VBByRefStr)] ref string lpzVer,
            int cbVer);

        [DllImport("kernel32.dll", SetLastError = true)]
        public static extern PreventSleep.EXECUTION_STATE SetThreadExecutionState(
            PreventSleep.EXECUTION_STATE esFlags);
    }
}
```

I asked the ChatGPT

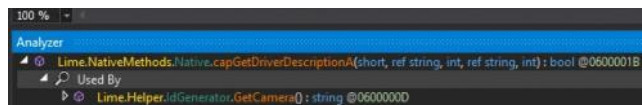
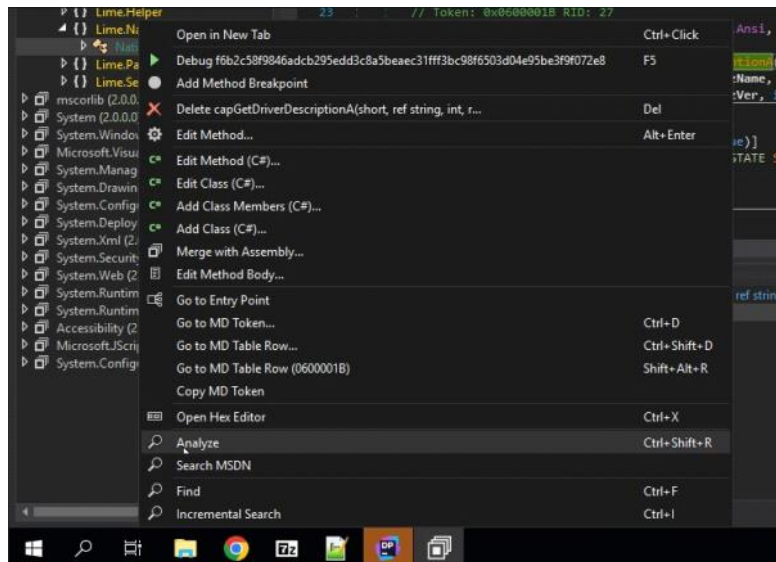
Answer: IP

Question 7:

What function was used to retrieve information about installed video capture drivers?

This question was a little tricky for me so after I used couple of methods I used another tool dnSpy and also searched for the capGetDriverDescriptionA from the Hint

Then I right clicked on it and clicked on Analyze

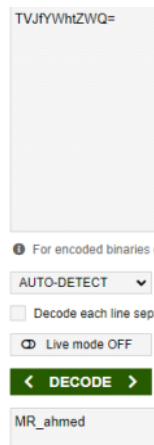
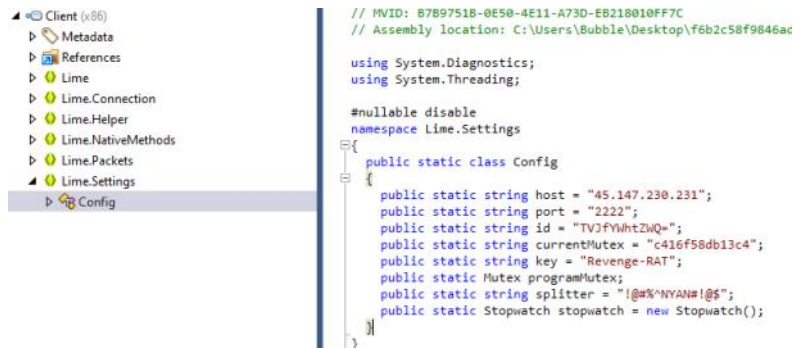


Answer: GetCamera

Question 8:

What is the value of the ID after removing obfuscation?

From task 1 I also found a small Base64 and decoded it



Answer: MR_ahmed