

Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	Decoded text
00000000	4D	5A	90	00	03	00	00	00	04	00	00	00	FF	FF	00	00	Hz.....
00000010	B8	00	00	00	00	00	00	00	40	00	00	00	00	00	00	00@.....
00000020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00000030	00	00	00	00	00	00	00	00	00	00	00	00	80	00	00	00€...
00000040	0E	1F	BA	0E	00	B4	09	CD	21	B8	01	4C	CD	21	54	68	...÷...`!.,.L!Th
00000050	69	73	20	70	72	6F	67	72	61	6D	20	63	61	6E	6E	6F	is program cannot
00000060	74	20	62	65	20	72	75	6E	20	69	6E	20	44	4F	53	20	be run in DOS
00000070	6D	6F	64	65	2E	0D	0D	0A	24	00	00	00	00	00	00	00	mode....\$.....
00000080	50	45	00	00	4C	01	03	00	14	B9	AD	5F	00	00	00	00	PE..L....^.....
00000090	00	00	00	00	E0	00	02	01	0B	01	08	00	00	30	00	000.....8..
000000A0	00	20	00	00	00	00	00	00	7E	4F	00	00	00	20	00	00~O... ..
000000B0	00	60	00	00	00	00	40	00	00	20	00	00	00	10	00	00	..`....@..
000000C0	04	00	00	00	00	00	00	00	04	00	00	00	00	00	00	00
000000D0	00	A0	00	00	00	10	00	00	00	00	00	00	02	00	40	85@...

Checking the signature:

```
signature Microsoft Visual C# v7.0 / Basic.NET
```

So, Dropping it to ILSpy:

```
Assemblies
├── mscorlib (4.0.0.0, .NETFramework, v4.0)
├── System (4.0.0.0, .NETFramework, v4.0)
├── System.Core (4.0.0.0, .NETFramework, v4.0)
├── System.Xml (4.0.0.0, .NETFramework, v4.0)
├── System.Xaml (4.0.0.0, .NETFramework, v4.0)
├── WindowsBase (4.0.0.0, .NETFramework, v4.0)
├── PresentationCore (4.0.0.0, .NETFramework, v4.0)
├── PresentationFramework (4.0.0.0, .NETFramework, v4.0)
└── bytes (0.0.0.0, .NETFramework, v2.0)
    ├── Metadata
    ├── References
    ├── {}
    ├── Lime
    ├── Lime.Connection
    ├── Lime.Helper
    ├── Lime.NativeMethods
    ├── Lime.Packets
    ├── Lime.Settings
    └── Config
├── mscorlib (2.0.0.0, .NETFramework, v2.0)
├── System (2.0.0.0, .NETFramework, v2.0)
├── System.Windows.Forms (2.0.0.0, .NETFramework, v2.0)
├── Microsoft.VisualBasic (8.0.0.0, .NETFramework, v2.0)
└── System.Management (2.0.0.0, .NETFramework, v2.0)
```

And here is the malware config :)

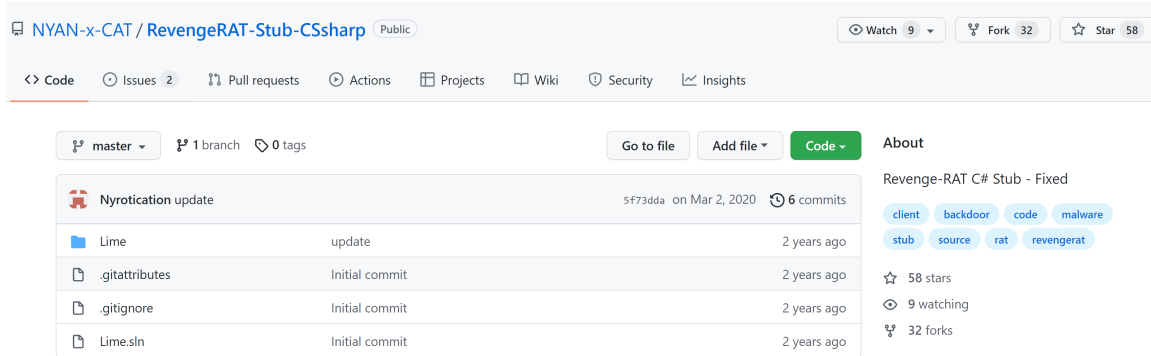
```
Config
// Lime.Settings.Config
using ...

public static class Config
{
    public static string host = "h0pe1759.ddns.net";
    public static string port = "6943";
    public static string id = "TnlhbkNhdFJldmVuZ2U=";
    public static string currentMutex = "bb1189cd86044bb09e";
    public static string key = "Revenge-RAT";
    public static Mutex programMutex;
    public static string splitter = "!@#%^&*^NYAN#!@$";
    public static Stopwatch stopwatch = new Stopwatch();
}
```

| We see that this is the "Revenge RAT".

| C2: h0pe1759.ddns.net

Quick googling takes us to the exact repo that this code is taken from:



The code contains a lot of capabilities like taking screenshots, retrieve information, get installed AV and more (thanks to the malware author for the detailed documentation 🤪)

```
public static class IdGenerator
{
    public static string SendInfo()
    ...
    public static string GetIp()
    ...
    public static string GetHardDiskSerialNumber()
    ...
    public static string GetCamera()
    ...
    public static string GetSystem()
    ...
    public static string GetAV(string product)
    ...
    public static string GetCpu()
    ...
    public static string GetActiveWindow()
    ...
}

public static class Client
{
    private static Socket client;
    public static bool isConnected;
    private static MemoryStream memoryStream;
    private static Timer keepAlivePacket;
    public static void Run()
    ...
    private static void TcpReceive()
    ...
    private static void Ping(object state)
    ...
    private static void TcpSend(byte[] packet)
    ...
    public static void TcpSend(string S)
    ...
    private static Array PacketFixer(byte[] byteArray, string splitter)
    ...
}
```

The other file that dropped to disk is a compressed Csharp code that gets compiled at runtime, and his purpose is to RunPE (AKA process hollowing) the RAT inside the legit InstallUtil.exe Binary (in this case):

```

using System;
using System.Diagnostics;
using System.Runtime.InteropServices;
using Microsoft.VisualBasic;

namespace projFUD
{
    public static class PA
    {
        public static string ReverseString(string Str)
        {
            string Revstr = "";
            int Length;
            Length = Str.Length - 1;
            while (Length >= 0)
            {
                Revstr = Revstr + Str[Length];
                Length--;
            }
            return Revstr;
        }
        public static string HexToString(string hex)
        {
            System.Text.StringBuilder text = new System.Text.StringBuilder(hex.Length / 2);
            for (int i = 0; i <= hex.Length - 2; i += 2)
                text.Append(Strings.Chr(Convert.ToByte(hex.Substring(i, 2), 16)));
            return text.ToString();
        }
    }
}

```

While writing these letters i found out a [detailed Blogpost](#) on that exact infection by Morphysec.