

JOeSandbox Cloud BASIC



ID: 457930

Sample Name:

kGSHiWbgq9.exe

Cookbook: default.jbs

Time: 15:06:08

Date: 02/08/2021

Version: 33.0.0 White Diamond

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Windows Analysis Report kGSHiWbgq9.exe

Overview

General Information

Sample Name:	kGSHiWbgq9.exe
Analysis ID:	457930
MD5:	27bf14807bc9d5c...
SHA1:	08eed11867aa3..
SHA256:	55fd5769df0df23...
Tags:	exe
Infos:	
Most interesting Screenshot:	

Detection

MALICIOUS

SUSPICIOUS

CLEAN

UNKNOWN

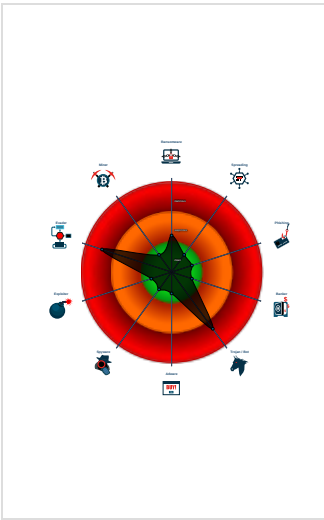
GuLoader

Score:	88
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

Signatures

- Found malware configuration
- Multi AV Scanner detection for subm...
- Yara detected GuLoader
- C2 URLs / IPs found in malware con...
- Contains functionality to detect hard...
- Detected RDTSC dummy instruction...
- Found potential dummy code loops (...)
- Machine Learning detection for samp...
- Tries to detect virtualization through...
- Abnormal high CPU Usage
- Contains functionality for execution ...
- Contains functionality to call native f...

Classification



Process Tree

- System is w10x64
- kGSHiWbgq9.exe (PID: 5364 cmdline: 'C:\Users\user\Desktop\kGSHiWbgq9.exe' MD5: 27BF14807BC9D5CD2D823293F43C3A3A)
- cleanup

Malware Configuration

Threatname: GuLoader

```
{
  "Payload URL ": "http://101.99.94.119/WEALTH_PRUu"
}
```

Yara Overview

Memory Dumps

Source	Rule	Description	Author	Strings
00000000.00000002.770527143.0000000000246 0000.00000040.00000001.sdmp	JoeSecurity_GuLoader_2	Yara detected GuLoader	Joe Security	

Sigma Overview

No Sigma rule has matched

Jbx Signature Overview

AV Detection:



Found malware configuration

Multi AV Scanner detection for submitted file

Machine Learning detection for sample

Networking:



C2 URLs / IPs found in malware configuration

Data Obfuscation:



Yara detected GuLoader

Malware Analysis System Evasion:



Contains functionality to detect hardware virtualization (CPUID execution measurement)

Detected RDTSC dummy instruction sequence (likely for instruction hammering)

Tries to detect virtualization through RDTSC time measurements

Anti Debugging:

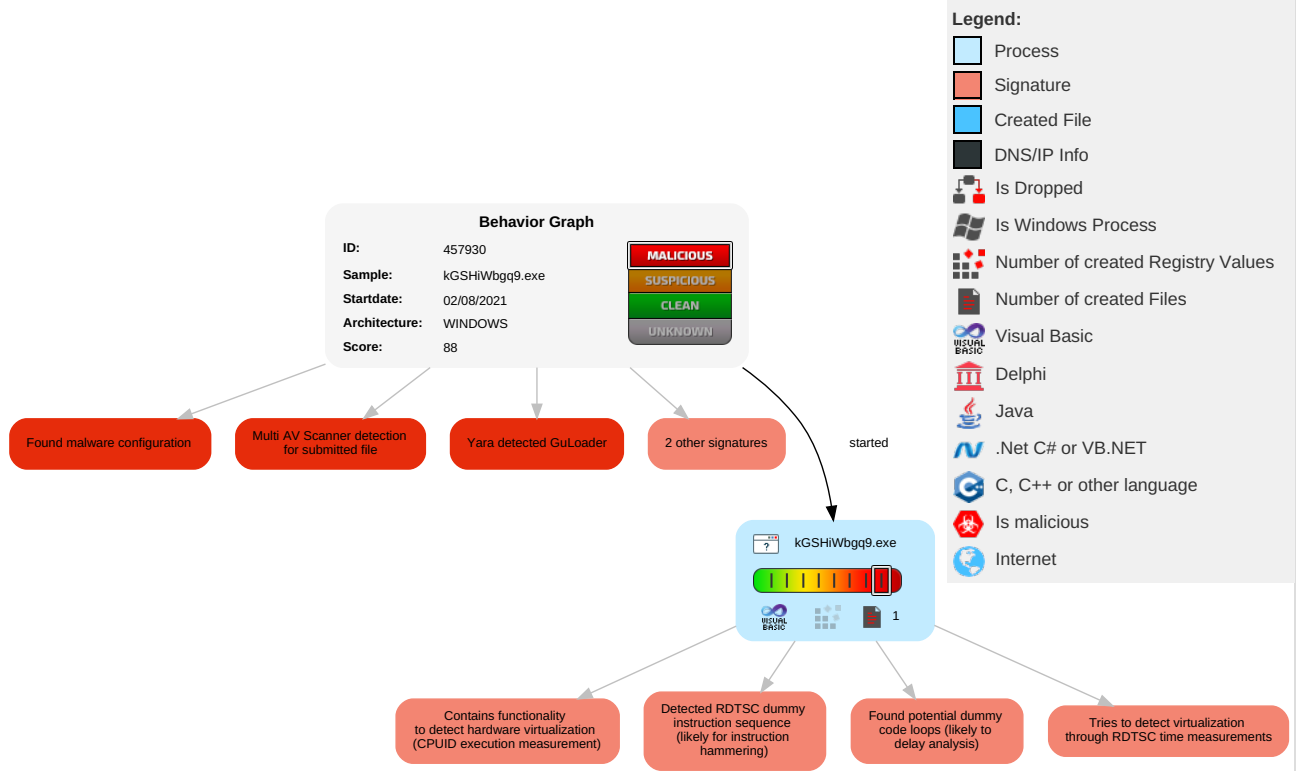


Found potential dummy code loops (likely to delay analysis)

Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	Recovery
Valid Accounts	Windows Management Instrumentation	Path Interception	Process Injection 1	Virtualization/Sandbox Evasion 1 1	OS Credential Dumping	Security Software Discovery 4 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop on Insecure Network Communication	Recovery Techniques Windows Administrative
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Software Packing 1	LSASS Memory	Virtualization/Sandbox Evasion 1 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Application Layer Protocol 1	Exploit SS7 to Redirect Phone Calls/SMS	Recovery Techniques Windows Administrative
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Process Injection 1	Security Account Manager	Process Discovery 1	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography	Exploit SS7 to Track Device Location	Other Detection Capabilities
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Obfuscated Files or Information 2	NTDS	System Information Discovery 3 1	Distributed Component Object Model	Input Capture	Scheduled Transfer	Protocol Impersonation	SIM Card Swap	

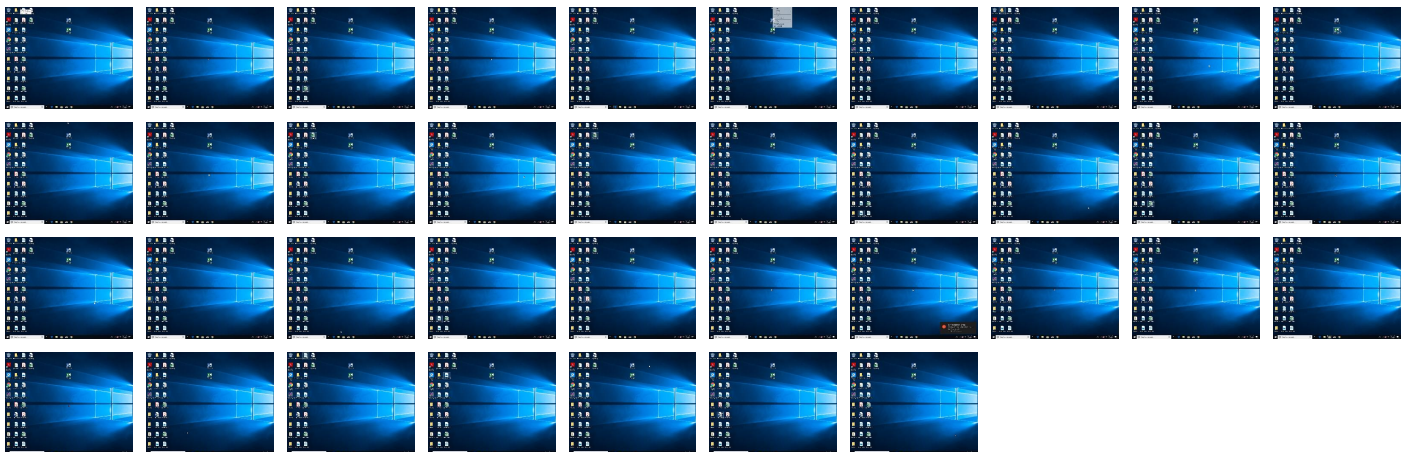
Behavior Graph



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
kGSHiWbgq9.exe	22%	VirusTotal		Browse
kGSHiWbgq9.exe	9%	ReversingLabs	Win32.Trojan.Vebzenpak	
kGSHiWbgq9.exe	100%	Joe Sandbox ML		

Dropped Files

No Antivirus matches

Unpacked PE Files

No Antivirus matches

Domains

No Antivirus matches

URLs

Source	Detection	Scanner	Label	Link
http://101.99.94.119/WEALTH_PRUu	0%	Avira URL Cloud	safe	

Domains and IPs

Contacted Domains

No contacted domains info

Contacted URLs

Name	Malicious	Antivirus Detection	Reputation
http://101.99.94.119/WEALTH_PRUu	true	<ul style="list-style-type: none">Avira URL Cloud: safe	unknown

Contacted IPs

No contacted IP infos

General Information

Joe Sandbox Version:	33.0.0 White Diamond
Analysis ID:	457930
Start date:	02.08.2021
Start time:	15:06:08
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 7m 50s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	kGSHiWbgq9.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:	26
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">HCA enabledEGA enabledHDC enabledAMSI enabled
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal88.troj.evad.winEXE@1/0@0/0
EGA Information:	Failed
HDC Information:	<ul style="list-style-type: none">Successful, ratio: 7.4% (good quality ratio 3%)Quality average: 20.2%Quality standard deviation: 28.7%
HCA Information:	Failed
Cookbook Comments:	<ul style="list-style-type: none">Adjust boot timeEnable AMSIFound application associated with file extension: .exeOverride analysis time to 240s for sample files taking high CPU consumption
Warnings:	Show All

Simulations

Behavior and APIs

No simulations

Joe Sandbox View / Context

IPs

No context

Domains

No context

ASN

No context

JA3 Fingerprints

No context

Dropped Files

No context

Created / dropped Files


No created / dropped files found

Static File Info

General

File type:	PE32 executable (GUI) Intel 80386, for MS Windows
Entropy (8bit):	6.650522833717378
TrID:	<ul style="list-style-type: none">Win32 Executable (generic) a (10002005/4) 99.96%Generic Win/DOS Executable (2004/3) 0.02%DOS Executable Generic (2002/1) 0.02%Autodesk FLIC Image File (extensions: flc, fli, cel) (7/3) 0.00%
File name:	kGSHiWbgq9.exe
File size:	114688
MD5:	27bf14807bc9d5cd2d823293f43c3a3a
SHA1:	08eed11867aa351be0d6c48da283721ee6c0769
SHA256:	55fd5769df0df23d4140a34d07dc2c833b43ac1060f4d0992bdd27316041c69a
SHA512:	c2bcd733a0bfd1b9e56b630e4fae6a45951a843946a389f8987c48a3b047ca9b9f74a5a01afc7d7589f156691220e474553229f485b6de4f902db566a6a0d245
SSDEEP:	1536:EAPGkc1ug6GUMu+Yg2WGI5XZ4QmiPYefCGk4H:X2bUMEWfXZiea
File Content Preview:	MZ.....@.....!..!Th is program cannot be run in DOS mode....\$.....#...B...B ...B..L^...B...`...B...d...B..Rich.B.....PE..L.....K.....@.....D.....P....@.....

File Icon

	
Icon Hash:	a5b595a595a5a5b5

Static PE Info

General

Entrypoint:	0x401144
Entrypoint Section:	.text
Digitally signed:	false
Imagebase:	0x400000
Subsystem:	windows gui
Image File Characteristics:	LOCAL_SYMS_STRIPPED, 32BIT_MACHINE, EXECUTABLE_IMAGE, LINE_NUMS_STRIPPED, RELOCS_STRIPPED
DLL Characteristics:	
Time Stamp:	0x4B801CC3 [Sat Feb 20 17:32:51 2010 UTC]
TLS Callbacks:	
CLR (.Net) Version:	
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:	5565993a5a9f2bfb76f28ab304be6bc1

Entrypoint Preview

Data Directories

Sections


Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0x13df4	0x14000	False	0.649157714844	data	7.07266809617	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x15000	0x115c	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x17000	0x5b96	0x6000	False	0.545694986979	data	6.03179178254	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Resources

Imports

Version Infos

Possible Origin

Language of compilation system	Country where language is spoken	Map
Chinese	Taiwan	

Network Behavior

No network behavior found

Code Manipulations

Statistics

System Behavior

Analysis Process: kGSHiWbgq9.exe PID: 5364 Parent PID: 5600

General

Start time:	15:07:02
Start date:	02/08/2021
Path:	C:\Users\user\Desktop\kGSHiWbgq9.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\kGSHiWbgq9.exe'
Imagebase:	0x400000
File size:	114688 bytes
MD5 hash:	27BF14807BC9D5CD2D823293F43C3A3A
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Yara matches:	<ul style="list-style-type: none">Rule: JoeSecurity_GuLoader_2, Description: Yara detected GuLoader, Source: 00000000.00000002.770527143.0000000002460000.00000040.00000001.sdmp, Author: Joe Security
Reputation:	low

File Activities

Show Windows behavior

Disassembly

Code Analysis