

JOeSandbox Cloud BASIC



ID: 343196

Sample Name: Proforma

Invoice.exe

Cookbook: default.jbs

Time: 14:49:45

Date: 22/01/2021

Version: 31.0.0 Red Diamond

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Analysis Report Proforma Invoice.exe

Overview

General Information

Sample Name:

Proforma Invoice.exe

Analysis ID:

343196

MD5:

6479f35608769db.

SHA1:

1ffc79fde43e746...

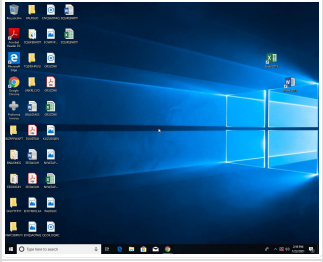
SHA256:

e97a63a8f54270a.

Tags:

GuLoader

Most interesting Screenshot:



Detection

MALICIOUS

SUSPICIOUS

CLEAN

UNKNOWN

GuLoader

Score:

84

Range:

0 - 100

Whitelisted:

false

Confidence:

100%

Signatures

Multi AV Scanner detection for subm...

Yara detected GuLoader

Contains functionality to detect hard...

Detected RDTSC dummy instruction...

Executable has a suspicious name (...)

Initial sample is a PE file and has a ...

Tries to detect sandboxes and other...

Tries to detect virtualization through...

Yara detected VB6 Downloader Gen...

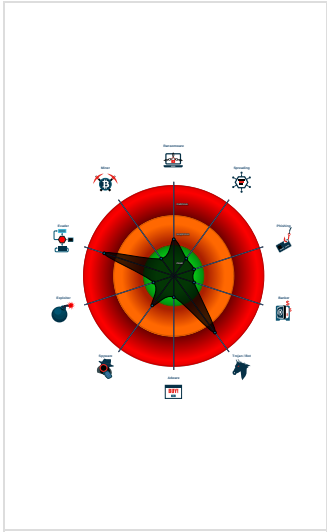
Abnormal high CPU Usage

Contains functionality for execution ...

Contains functionality to call native f...

Contains functionality to query CPU ...

Classification



Startup

- System is w10x64
-  [Proforma Invoice.exe](#) (PID: 2952 cmdline: 'C:\Users\user\Desktop\Proforma Invoice.exe' MD5: 6479F35608769DB340640D6A8F84A38D)
- cleanup

Malware Configuration

No configs have been found

Yara Overview

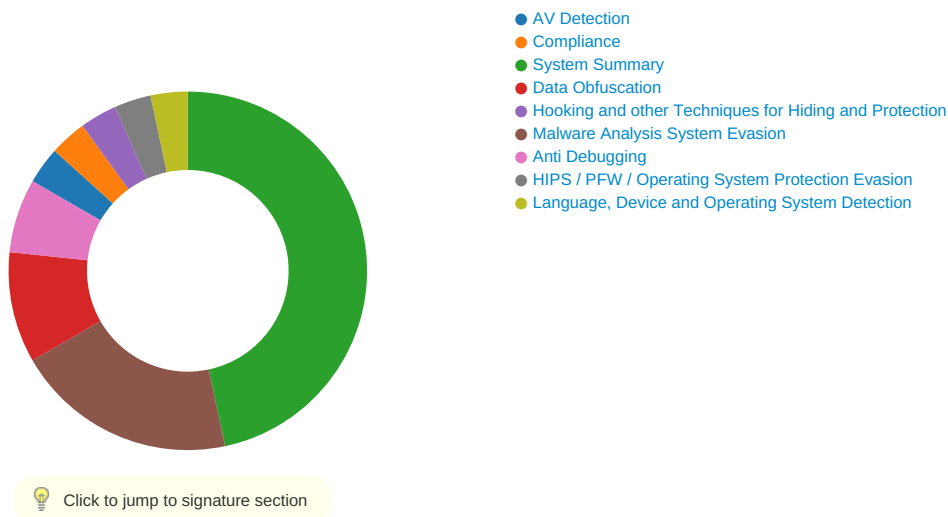
Memory Dumps

Source	Rule	Description	Author	Strings
Process Memory Space: Proforma Invoice.exe PID: 2952	JoeSecurity_VB6DownloaderGeneric	Yara detected VB6 Downloader Generic	Joe Security	
Process Memory Space: Proforma Invoice.exe PID: 2952	JoeSecurity_GuLoader	Yara detected GuLoader	Joe Security	

Sigma Overview

No Sigma rule has matched

Signature Overview



AV Detection:



Multi AV Scanner detection for submitted file

Compliance:



Uses 32bit PE files

System Summary:



Executable has a suspicious name (potential lure to open the executable)

Initial sample is a PE file and has a suspicious name

Data Obfuscation:



Yara detected GuLoader

Yara detected VB6 Downloader Generic

Malware Analysis System Evasion:



Contains functionality to detect hardware virtualization (CPUID execution measurement)

Detected RDTS instruction sequence (likely for instruction hammering)

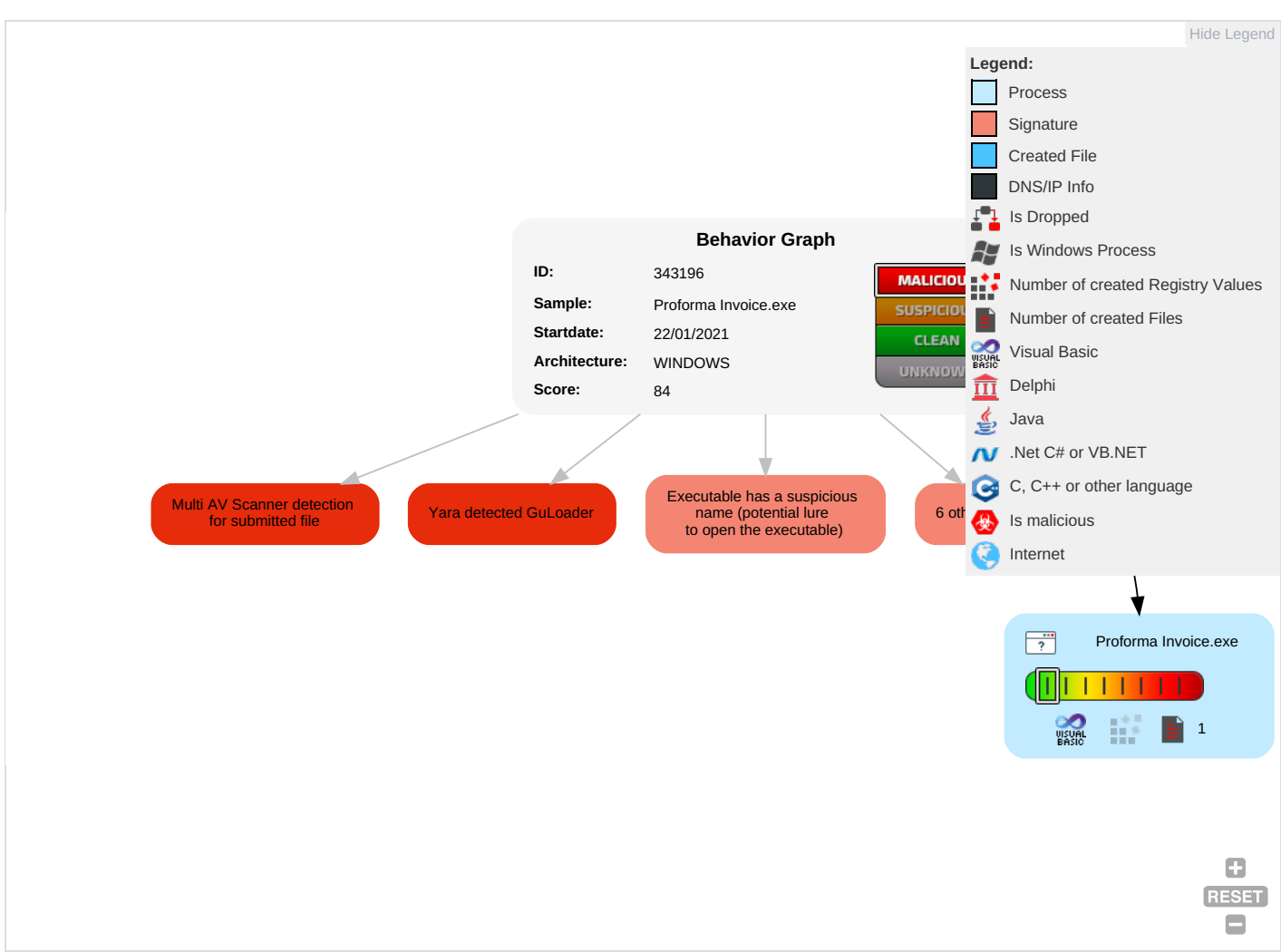
Tries to detect sandboxes and other dynamic analysis tools (process name or module or function)

Tries to detect virtualization through RDTS time measurements

Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	Remote Service Effects
Valid Accounts	Windows Management Instrumentation	Path Interception	Process Injection 1	Process Injection 1	OS Credential Dumping	Security Software Discovery 4 1 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop on Insecure Network Communication	Remotely Track Device Without Authorization
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Obfuscated Files or Information 1	LSASS Memory	Process Discovery 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Junk Data	Exploit SS7 to Redirect Phone Calls/SMS	Remotely Wipe Data Without Authorization
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Obfuscated Files or Information	Security Account Manager	System Information Discovery 3 1 1	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography	Exploit SS7 to Track Device Location	Obtain Device Cloud Backups

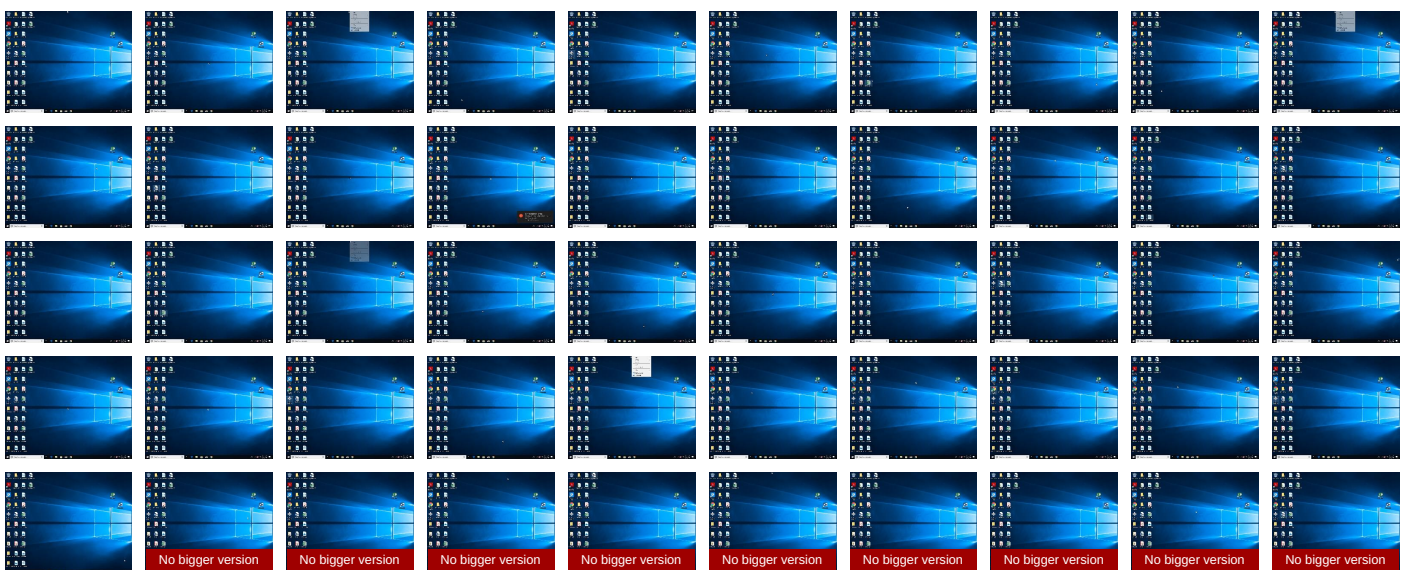
Behavior Graph

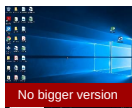


Screenshots

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
Proforma Invoice.exe	34%	Virustotal		Browse
Proforma Invoice.exe	20%	ReversingLabs	Win32.Trojan.Generic	

Dropped Files

No Antivirus matches

Unpacked PE Files

No Antivirus matches

Domains

No Antivirus matches

URLs

No Antivirus matches

Domains and IPs

Contacted Domains

No contacted domains info

Contacted IPs

No contacted IP infos

General Information

Joe Sandbox Version:	31.0.0 Red Diamond
Analysis ID:	343196
Start date:	22.01.2021
Start time:	14:49:45
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 11m 42s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	Proforma Invoice.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:	39
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:	• HCA enabled • EGA enabled • HDC enabled • AMSI enabled
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal84.troj.evad.winEXE@1/0@0/0
EGA Information:	Failed
HDC Information:	• Successful, ratio: 17.7% (good quality ratio 10%) • Quality average: 39.1% • Quality standard deviation: 36.7%
HCA Information:	Failed
Cookbook Comments:	• Adjust boot time • Enable AMSI • Found application associated with file extension: .exe • Override analysis time to 240s for sample files taking high CPU consumption
Warnings:	Show All • Exclude process from analysis (whitelisted): MpCmdRun.exe, audiodg.exe, BackgroundTransferHost.exe, HxTsr.exe, RuntimeBroker.exe, WMIADAP.exe, MusNotifyIcon.exe, SgrmBroker.exe, backgroundTaskHost.exe, conhost.exe, svchost.exe, wuapihost.exe

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):	5.766612306860119
TrID:	- Win32 Executable (generic) a (10002005/4) 99.15% - Win32 Executable Microsoft Visual Basic 6 (82127/2) 0.81% - 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:	Proforma Invoice.exe
File size:	69632
MD5:	6479f35608769db340640d6a8f84a38d
SHA1:	1ffc79fde43e746e826f32a018e02a65fc51602e
SHA256:	e97a63a8f54270ace4969870597c7642bbdb31fc6d5d1972d412edaf4fccd80e
SHA512:	cab95cae43799faaec6d612e4f63d363629506dd5973513e29870e0d81e1a3a99adc86696d320ffaefff5cc23b6f6491cbe30052a3eff9afd303227db113054f
SSDEEP:	768:ixdbBehQZF4bp4kbKR80KQWfD5HDm0L5g5euc11hzRU66t:6dde0F4bekepUrZi0O5Fc11hzR+

General

File Content Preview:

MZ.....@.....!..L!Th
is program cannot be run in DOS mode...\$.....#...B..B
...B..L^...B...`...B...d...B..Rich.B.....PE..L.....S.....
.....0.....T.....@.....

File Icon



Icon Hash:

f030f0c6f030b100

Static PE Info

General

Entrypoint:	0x401354
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:	0x530B1A94 [Mon Feb 24 10:10:28 2014 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:	e22238527efb5691a1dfa3f0e707406a

Entrypoint Preview

Instruction

```
push 00401FECh
call 00007FD3307D24E5h
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
xor byte ptr [eax], al
add byte ptr [eax], al
inc eax
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add dh, cl
in al, dx
add edx, dword ptr [ebx+42150DA1h]
cmpsd
xchg eax, ecx
aas
test eax, CAE2F407h
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add dword ptr [eax], eax
add byte ptr [eax], al
inc ecx
add byte ptr [esi+50018250h], al
jc 00007FD3307D2561h
push 00000065h
arpl word ptr [ecx+esi+00h], si
add byte ptr [eax], al
```


Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_BASERELOC	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_DEBUG	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_COPYRIGHT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_GLOBALPTR	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_TLS	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_LOAD_CONFIG	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_BOUND_IMPORT	0x228	0x20	
IMAGE_DIRECTORY_ENTRY_IAT	0x1000	0xfc	.text
IMAGE_DIRECTORY_ENTRY_DELAY_IMPORT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_COM_DESCRIPTOR	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_RESERVED	0x0	0x0	

Sections

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0xde48	0xe000	False	0.533761160714	data	6.42243762415	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0xf000	0x1180	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x11000	0x930	0x1000	False	0.140625	data	1.4231462793	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Resources

Name	RVA	Size	Type	Language	Country
RT_ICON	0x113c8	0x568	GLS_BINARY_LSB_FIRST		
RT_GROUP_ICON	0x113b4	0x14	data		
RT_VERSION	0x110f0	0x2c4	data	Chinese	Taiwan

Imports

DLL	Import
MSVBVM60.DLL	_CfCos, _adj_fptan, __vbaFreeVar, __vbaLenBstr, __vbaEnd, __vbaFreeVarList, _adj_fdiv_m64, __vbaFreeObjList, _adj_fprem1, __vbaStrCat, __vbaHresultCheckObj, _adj_fdiv_m32, __vbaVarForInit, __vbaObjSet, _adj_fdiv_m16i, _adj_fdivr_m16i, __vbaVarTstLt, __vbaFpR8, _CfSin, __vbaChkstk, EVENT_SINK_AddRef, __vbaStrCmp, _adj_fptan, __vbaLateldCallLd, EVENT_SINK_Release, _CfSqrt, EVENT_SINK_QueryInterface, __vbaExceptHandler, _adj_fprem, _adj_fdivr_m64, __vbaFPEException, _CfLog, __vbaNew2, _adj_fdiv_m32i, _adj_fdivr_m32i, __vbaStrCopy, __vbaFreeStrList, _adj_fdivr_m32, _adj_fdiv_r, __vbaI4Var, __vbaVarDup, __vbaFpl4, _Clatan, __vbaCastObj, __vbaStrMove, _allmul, _Cltan, __vbaVarForNext, _Cfexp, __vbaFreeStr, __vbaFreeObj

Version Infos

Description	Data
Translation	0x0404 0x04b0
LegalCopyright	Calc Theory
InternalName	ABJOINT
FileVersion	1.00
CompanyName	Calc Theory
Comments	Calc Theory
ProductName	Calc Theory
ProductVersion	1.00
FileDescription	Calc Theory
OriginalFilename	ABJOINT.exe

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: Proforma Invoice.exe PID: 2952 Parent PID: 5692

General

Start time:	14:50:35
Start date:	22/01/2021
Path:	C:\Users\user\Desktop\Proforma Invoice.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\Proforma Invoice.exe'
Imagebase:	0x400000
File size:	69632 bytes
MD5 hash:	6479F35608769DB340640D6A8F84A38D
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Reputation:	low

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
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Disassembly

Code Analysis