JoeSandbox Cloud BASIC

ID: 338405

Sample Name: Proof of payment.exe

Cookbook: default.jbs

Time: 08:33:21

Date: 12/01/2021

Version: 31.0.0 Red Diamond

Table of Contents

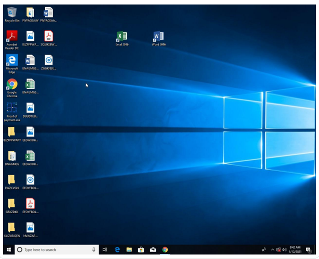
Analysis Report Proof of payment.exe

Overview

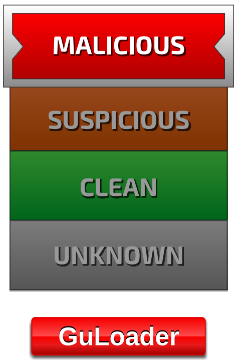
General Information

Sample Name:	Proof of payment.exe
Analysis ID:	338405
MD5:	606275919e922f6.
SHA1:	32d9ef9a02da8cf..
SHA256:	94644b63a2f0873.
Tags:	exe GuLoader

Most interesting Screenshot:



Detection

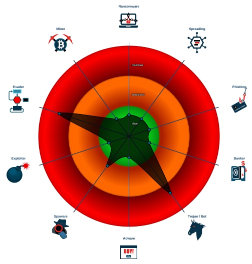


Score:	76
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

Signatures

- 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 read the PEB
- PE file contains strange resources
- Queries the volume information (nam…

Classification



Startup

- **System is w10x64**
- Proof of payment.exe (PID: 5352 cmdline: 'C:\Users\user\Desktop\Proof of payment.exe' MD5: 606275919E922F6A1F639C42F8E2580C)
- **cleanup**

Malware Configuration

No configs have been found

Yara Overview

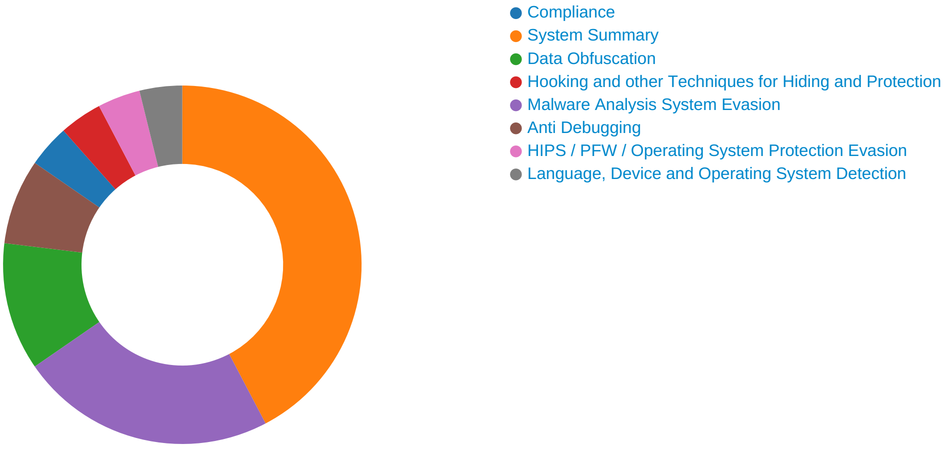
Memory Dumps

Source	Rule	Description	Author	Strings
Process Memory Space: Proof of payment.exe PID: 5352	JoeSecurity_VB6DownloaderGeneric	Yara detected VB6 Downloader Generic	Joe Security	
Process Memory Space: Proof of payment.exe PID: 5352	JoeSecurity_GuLoader	Yara detected GuLoader	Joe Security	

Sigma Overview

No Sigma rule has matched

Signature Overview



Click to jump to signature section

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 RDTSC dummy instruction sequence (likely for instruction hammering)

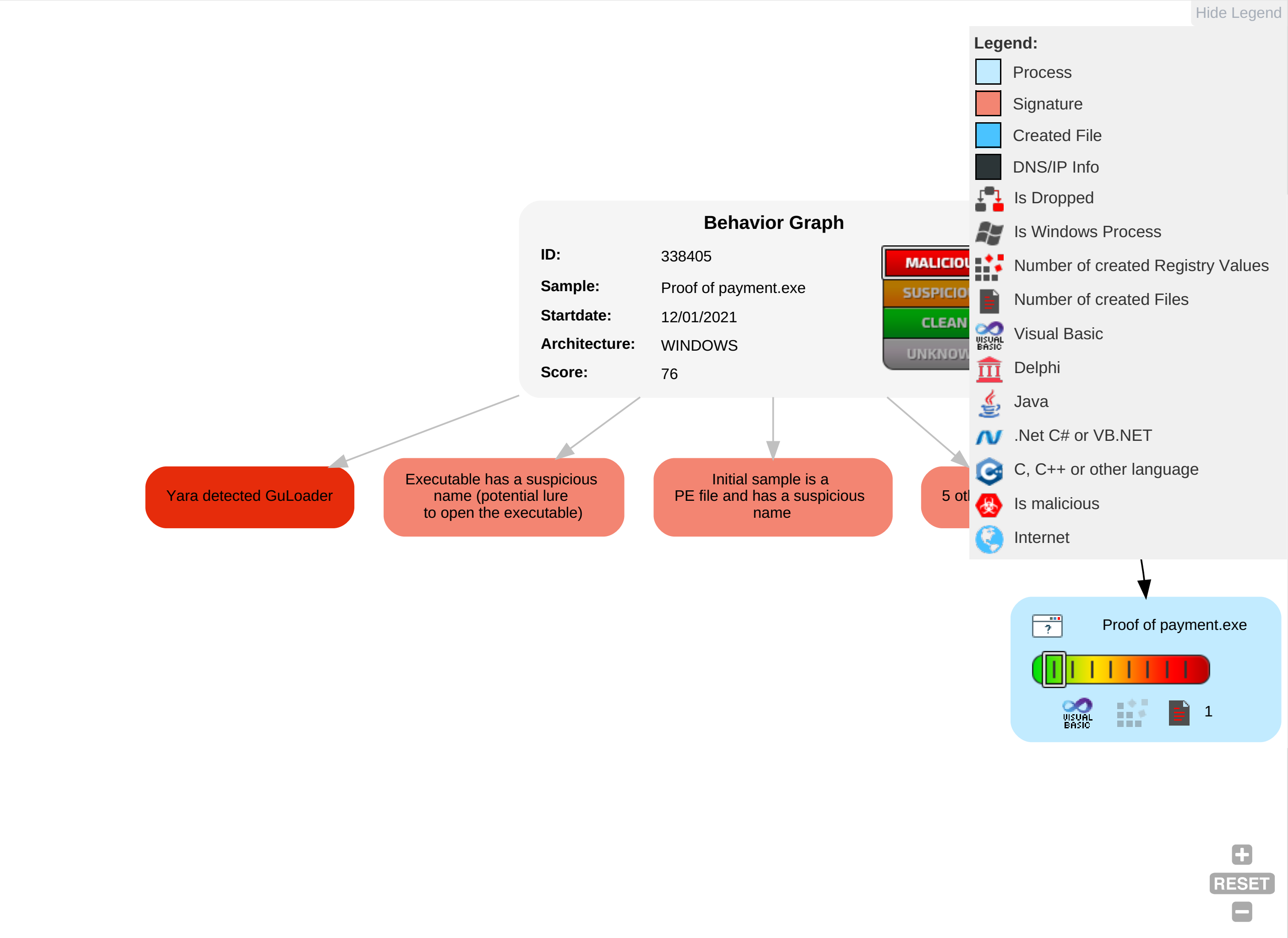
Tries to detect sandboxes and other dynamic analysis tools (process name or module or function)

Tries to detect virtualization through RDTSC 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	Data from Local System	Exfiltration Over Other Network Medium	Data Obfuscation	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



Behavior Graph

ID: 338405

Sample: Proof of payment.exe

Startdate: 12/01/2021

Architecture: WINDOWS

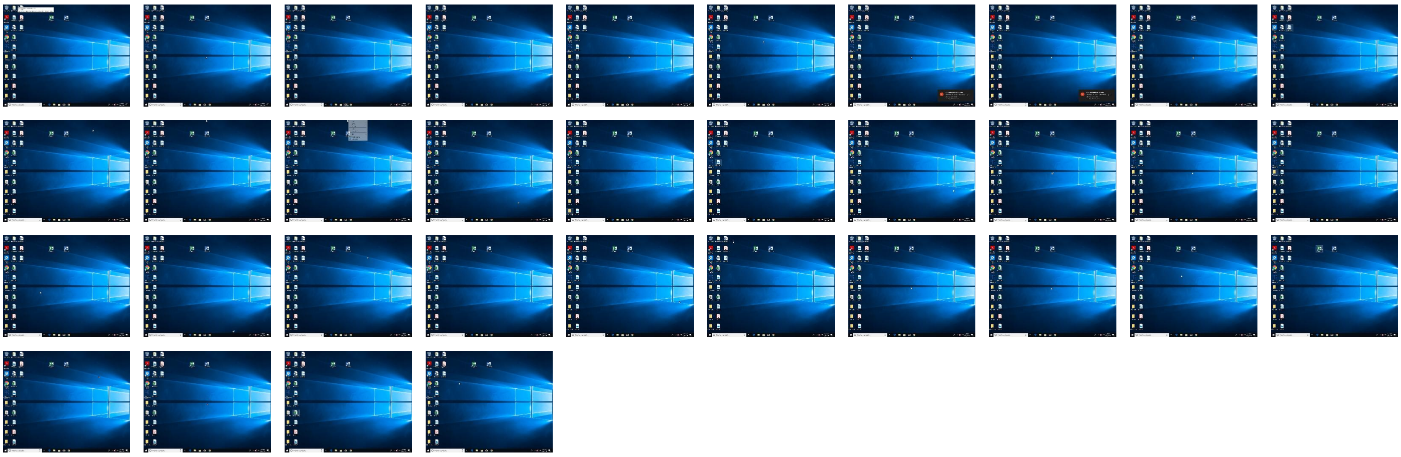
Score: 76

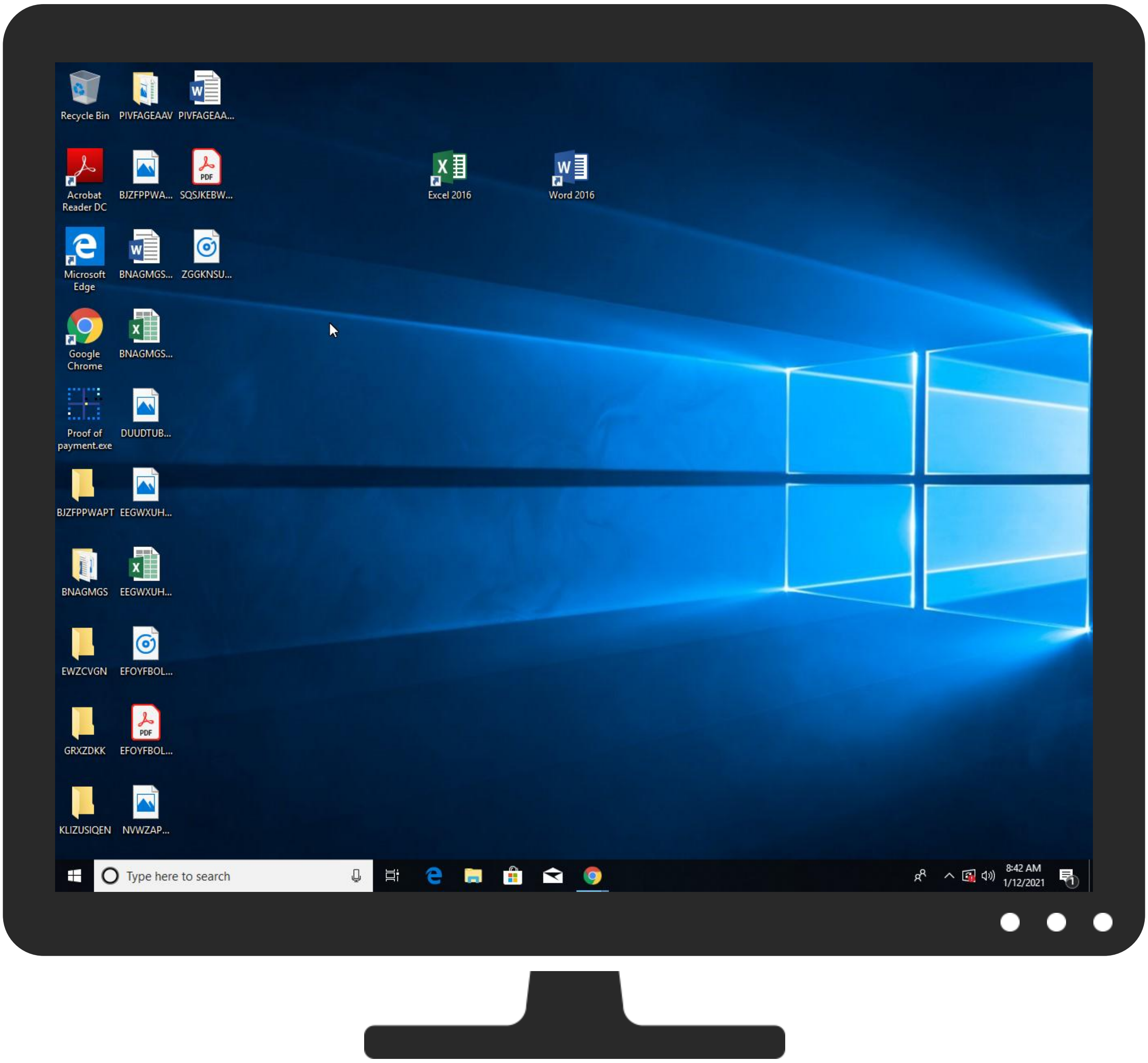
MALICIOU
SUSPICIO
CLEAN
UNKNOW
Yara detected GuLoader
Executable has a suspicious name (potential lure to open the executable)
Initial sample is a PE file and has a suspicious name
5 ot
Proof of payment.exe
1
RESET

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

No Antivirus matches

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:	338405
Start date:	12.01.2021
Start time:	08:33:21
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 10m 57s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	Proof of payment.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:	mal76.troj.evad.winEXE@1/0@0/0
EGA Information:	Failed
HDC Information:	• Successful, ratio: 58.9% (good quality ratio 34.6%) • Quality average: 31.3% • Quality standard deviation: 32.8%
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, RuntimeBroker.exe, wermgr.exe, WMIADAP.exe, MusNotifyIcon.exe, backgroundTaskHost.exe, SgrmBroker.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

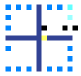
No created / dropped files found

Static File Info

General

File type:	PE32 executable (GUI) Intel 80386, for MS Windows
Entropy (8bit):	5.326441903886581
TrID:	• 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:	Proof of payment.exe
File size:	73728
MD5:	606275919e922f6a1f639c42f8e2580c
SHA1:	32d9ef9a02da8cf64594608c61bb7adc7b397703
SHA256:	94644b63a2f087324bcbab6b789ec015939cee82844f788 987835837f57d0acc
SHA512:	30e6f09b597dec9906c183c100cb7e39672ae670b43336 cea0060cb5e8e064e0eb54183324e04682e86d6f6c7730 84ffdab31056ccf6ac5a31ece20342e7fe12
SSDEEP:	768:mXt0cNb+/PNGtXHcXftQNK1JmZXpDeGNzTdYgSA/+JVkG3m3aZN:mXtFb8Pgx8X8K1RGzTVy
File Content Preview:	MZ......................@...!..L.!Th is program cannot be run in DOS mode....$.......O........... ....D.......=.......Rich............PE..L....q.H..................... 0......T.............@................

File Icon

	
Icon Hash:	8c9393f29393b284

Static PE Info

General

Entrypoint:	0x401254
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:	0x489671A3 [Mon Aug 4 03:04:03 2008 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:	a468bb2dc3574e0bac04516976bc7905

Entrypoint Preview

Instruction
push 0040BBA0h
call 00007F6314CDD135h
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 byte ptr [esi], bl
or byte ptr [edi+4A2D179Fh], ch
dec eax
mov dword ptr [8CC15009h], eax
jne 00007F6314CDD0C7h
std
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 edx
add byte ptr [esi], al
push eax
add dword ptr [edx], 41h
insb
imul ebp, dword ptr [ebp+65h], 6E61746Eh
je 00007F6314CDD1A7h
jc 00007F6314CDD1B5h
add byte ptr [edx], bl
add eax, dword ptr [eax]
add byte ptr [eax], al
add bh, bh
int3
xor dword ptr [eax], eax
sub dword ptr [esi], ebp
stosb

Data Directories

Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_EXPORT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_IMPORT	0xfab4	0x28	.text
IMAGE_DIRECTORY_ENTRY_RESOURCE	0x12000	0x858	.rsrc
IMAGE_DIRECTORY_ENTRY_EXCEPTION	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_SECURITY	0x0	0x0	
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	0xbc	.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	0xee54	0xf000	False	0.423583984375	data	5.96912378458	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x10000	0x1904	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x12000	0x858	0x1000	False	0.1396484375	data	2.11621167583	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Resources

Name	RVA	Size	Type	Language	Country
RT_ICON	0x122f0	0x568	GLS_BINARY_LSB_FIRST		
RT_GROUP_ICON	0x122dc	0x14	data		
RT_VERSION	0x120f0	0x1ec	data	Chinese	Taiwan

Imports

DLL	Import
MSVBVM60.DLL	_CIcos, _adj_fptan, __vbaFreeVar, __vbaStrVarMove, __vbaFreeVarList, _adj_fdiv_m64, __vbaFreeObjList, _adj_fprem1, __vbaHresultCheckObj, _adj_fdiv_m32, __vbaObjSet, _adj_fdiv_m16i, _adj_fdivr_m16i, _CIsin, __vbaChkstk, EVENT_SINK_AddRef, _adj_fpatan, __vbaLateIdCallLd, EVENT_SINK_Release, _CIsqrt, EVENT_SINK_QueryInterface, __vbaExceptHandler, _adj_fprem, _adj_fdivr_m64, __vbaFPException, _CIlog, __vbaNew2, _adj_fdiv_m32i, _adj_fdivr_m32i, __vbaStrCopy, __vbaI4Str, __vbaFreeStrList, _adj_fdivr_m32, _adj_fdiv_r, __vbaI4Var, __vbaVarDup, _CIatan, __vbaStrMove, _allmul, _CItan, _CIexp, __vbaFreeStr, __vbaFreeObj

Version Infos

Description	Data
Translation	0x0404 0x04b0
ProductVersion	1.00
InternalName	UNDERWOOD
FileVersion	1.00
OriginalFilename	UNDERWOOD.exe
ProductName	Alimentanters

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: Proof of payment.exe PID: 5352 Parent PID: 5524

General

Start time:	08:34:17
Start date:	12/01/2021
Path:	C:\Users\user\Desktop\Proof of payment.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\Proof of payment.exe'
Imagebase:	0x400000
File size:	73728 bytes
MD5 hash:	606275919E922F6A1F639C42F8E2580C
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

Disassembly

Code Analysis