ID: 358381
Sample Name: TNT Delivery Document.exe
Cookbook: default.jbs
Time: 15:00:11
Date: 25/02/2021
Version: 31.0.0 Emerald

Table of Contents

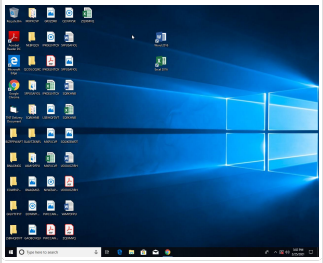
Analysis Report TNT Delivery Document.exe

Overview

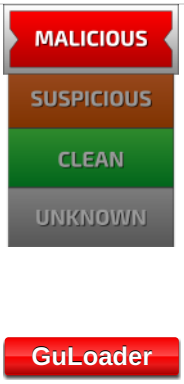
General Information

Sample Name:	TNT Delivery Document.exe
Analysis ID:	358381
MD5:	cbaf832b5ff679e…
SHA1:	b95263edbe7c52..
SHA256:	0b725a075b7e61..
Tags:	exe GuLoader
Infos:	

Most interesting Screenshot:



Detection



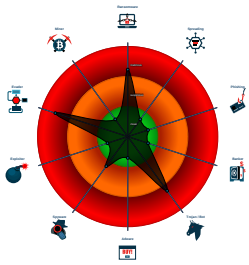
GuLoader

Score:	96
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

Signatures

- Multi AV Scanner detection for subm…
- Potential malicious icon found
- Yara detected GuLoader
- Detected RDTSC dummy instruction…
- Executable has a suspicious name (…
- Hides threads from debuggers
- Initial sample is a PE file and has a …
- Tries to detect Any.run
- Tries to detect sandboxes and other…
- Tries to detect virtualization through…
- Writes to foreign memory regions
- Abnormal high CPU Usage
- Checks if the current process is bein…
- Contains functionality for execution …

Classification



Startup

- **System is w10x64**
- TNT Delivery Document.exe (PID: 6288 cmdline: 'C:\Users\user\Desktop\TNT Delivery Document.exe' MD5: CBAF832B5FF679EB876D12D89D337231)
  - RegAsm.exe (PID: 6392 cmdline: 'C:\Users\user\Desktop\TNT Delivery Document.exe' MD5: 6FD7592411112729BF6B1F2F6C34899F)
    - conhost.exe (PID: 4932 cmdline: C:\Windows\system32\conhost.exe 0xffffffff -ForceV1 MD5: EA777DEEA782E8B4D7C7C33BBF8A4496)
- **cleanup**

Malware Configuration

No configs have been found

Yara Overview

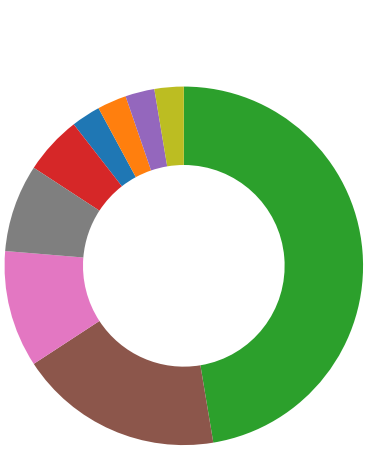
Memory Dumps

Source	Rule	Description	Author	Strings
Process Memory Space: RegAsm.exe PID: 6392	JoeSecurity_GuLoader	Yara detected GuLoader	Joe Security	

Sigma Overview

No Sigma rule has matched

Signature Overview



Click to jump to signature section

AV Detection:

Multi AV Scanner detection for submitted file

Compliance:

Uses 32bit PE files

System Summary:

Potential malicious icon found

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

Malware Analysis System Evasion:

Detected RDTSC dummy instruction sequence (likely for instruction hammering)

Tries to detect Any.run

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

Tries to detect virtualization through RDTSC time measurements

Anti Debugging:

Hides threads from debuggers

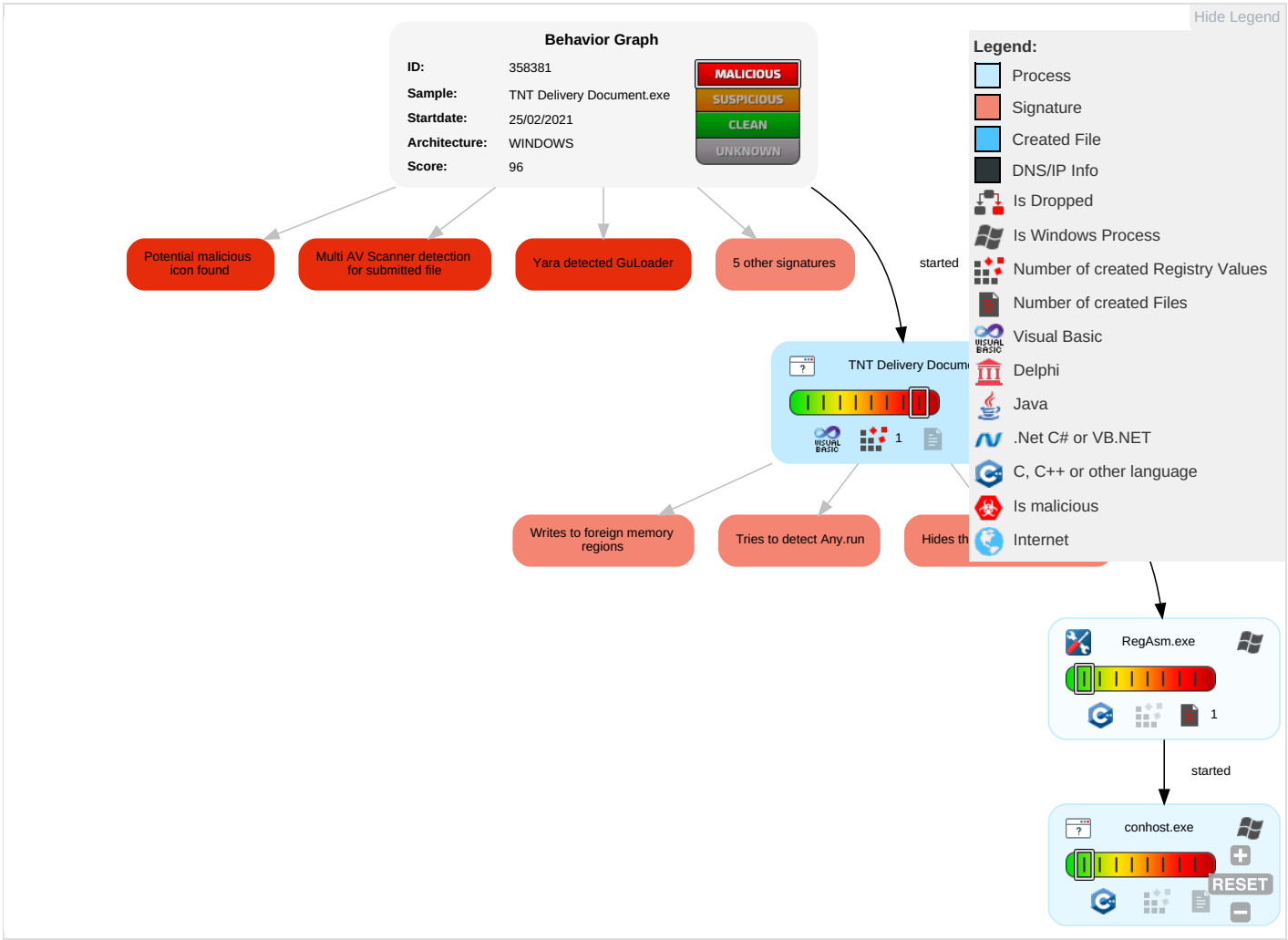
HIPS / PFW / Operating System Protection Evasion:

Writes to foreign memory regions

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	Windows Management Instrumentation	DLL Side-Loading 1	Process Injection 1 1 2	Virtualization/Sandbox Evasion 2 1	OS Credential Dumping	Security Software Discovery 5 2 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop o Insecure Network Communicat
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	DLL Side-Loading 1	Process Injection 1 1 2	LSASS Memory	Virtualization/Sandbox Evasion 2 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Junk Data	Exploit SS7 t Redirect Pho Calls/SMS
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	DLL Side-Loading 1	Security Account Manager	Process Discovery 1	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography	Exploit SS7 t Track Device Location
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Obfuscated Files or Information 1	NTDS	System Information Discovery 2 1 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
TNT Delivery Document.exe	39%	Virustotal		Browse
TNT Delivery Document.exe	17%	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 Emerald
Analysis ID:	358381
Start date:	25.02.2021
Start time:	15:00:11
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 6m 2s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	TNT Delivery Document.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:	28
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:	mal96.rans.troj.evad.winEXE@4/0@0/0
EGA Information:	Failed
HDC Information:	• Successful, ratio: 31.2% (good quality ratio 12.2%) • Quality average: 27.4% • Quality standard deviation: 37.1%
HCA Information:	Failed
Cookbook Comments:	• Adjust boot time • Enable AMSI • Found application associated with file extension: .exe
Warnings:	Show All • Exclude process from analysis (whitelisted): taskhostw.exe, MpCmdRun.exe, BackgroundTransferHost.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):	5.965175275325986
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:	TNT Delivery Document.exe
File size:	86016
MD5:	cbaf832b5ff679eb876d12d89d337231
SHA1:	b95263edbe7c523e7d51396093209c187919257b
SHA256:	0b725a075b7e61c937650e5f643b40858563fa2f296e37f7d75d60ab35c28a33
SHA512:	7945bb795afea268c020de30e1f57f2aac723e709c2dc97e8dc003c570d11257363ef82b922310c28732a836e551e1fe484962cf4179f09822baa896e1bdc327
SSDEEP:	768:sIuaeV9jhbnf4oEh/VgnruMFG8xJ43ptv37FTQDEJg/agbbf0WcmCp+5yS4AyW5X:KVFRQougnSoif35aMrFKg3AXKvitnf
File Content Preview:	MZ.....@.....!..L.!This program cannot be run in DOS mode....$.....#...B...B...B..L^...B...`...B...d...B..Rich.B.....PE..L...sP7`.....0.....0....@.....

File Icon

Icon Hash:	20047c7c70f0e004

Static PE Info

General

Entrypoint:	0x4014bc
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:	0x60375073 [Thu Feb 25 07:23:31 2021 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:	3a6673b23cf9b03cd6b926c02ab84460

Entrypoint Preview

Instruction
push 0040178Ch
call 00007FABACD2B173h
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 [edi+56AD29B0h], cl
nop
and cl, byte ptr [edi-5Dh]
dec esi
or eax, 997B82A2h
rol byte ptr [eax], 1
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [ecx], al
add byte ptr [eax], al
add byte ptr [eax], ah
and byte ptr [eax], ah
push edi
imul esp, dword ptr [eax+ecx*2+61h], 62656E76h
popad
jnc 00007FABACD2B1F5h
imul ebp, dword ptr [esi+65h], 20007374h
add byte ptr [eax], al
add byte ptr [eax], al
dec esp
xor dword ptr [eax], eax
or ebx, esp
or al, 05h
daa
and edx, ebp
test dword ptr [ecx+eax*4+34h], ecx
or dh, byte ptr [8092E160h]
fcom dword ptr [ecx+7Bh]

Instruction
loope 00007FABACD2B1C9h
nop
dec byte ptr [esi-5Fh]
movsb
cmp al, cl
loope 00007FABACD2B1A8h
dec esp
test byte ptr [edx], bh
dec edi
lodsd
xor ebx, dword ptr [ecx-48EE309Ah]
or al, 00h
stosb
add byte ptr [eax-2Dh], ah
xchg eax, ebx
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
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add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
pop ds
add al, byte ptr [eax]
add byte ptr [ebx+00h], al
add byte ptr [eax], al
add byte ptr [edi], al
add byte ptr [ebx+79h], dl
arpl word ptr [edi+6Eh], bp
jnc 00007FABACD2B183h
or eax, 4C000701h
dec ecx
dec esi
inc esp
inc ebp
dec esi
inc ebp

Data Directories

Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_EXPORT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_IMPORT	0x12554	0x28	.text
IMAGE_DIRECTORY_ENTRY_RESOURCE	0x15000	0xa48	.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	

Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_IAT	0x1000	0x120	.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	0x11a60	0x12000	False	0.456271701389	data	6.50422226854	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x13000	0x11bc	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x15000	0xa48	0x1000	False	0.18798828125	data	2.2532231996	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Resources

Name	RVA	Size	Type	Language	Country
RT_ICON	0x15918	0x130	data		
RT_ICON	0x15630	0x2e8	data		
RT_ICON	0x15508	0x128	GLS_BINARY_LSB_FIRST		
RT_GROUP_ICON	0x154d8	0x30	data		
RT_VERSION	0x15150	0x388	data	English	United States

Imports

DLL	Import
MSVBVM60.DLL	_CIcos, _adj_fptan, __vbaVarMove, __vbaFreeVar, __vbaFreeVarList, _adj_fdiv_m64, __vbaFreeObjList, _adj_fprem1, __vbaHresultCheckObj, __vbaLenBstrB, _adj_fdiv_m32, __vbaAryDestruct, __vbaObjSet, __vbaOnError, _adj_fdiv_m16i, _adj_fdivr_m16i, __vbaVarTstLt, __vbaFpR8, _CIsin, __vbaChkstk, EVENT_SINK_AddRef, __vbaStrCmp, __vbaVarTstEq, _adj_fpatan, __vbaLateIdCallLd, __vbaRedim, EVENT_SINK_Release, _CIsqrt, EVENT_SINK_QueryInterface, __vbaExceptHandler, _adj_fprem, _adj_fdivr_m64, __vbaI2Str, __vbaFPException, __vbaInStrVar, _CIlog, __vbaNew2, __vbaR8Str, __vbaInStr, _adj_fdiv_m32i, _adj_fdivr_m32i, __vbaStrCopy, __vbaFreeStrList, __vbaDerefAry1, _adj_fdivr_m32, _adj_fdiv_r, __vbaI4Var, __vbaVarAdd, __vbaLateMemCall, __vbaVarDup, __vbaFpI4, _CIatan, __vbaStrMove, __vbaCastObj, _allmul, __vbaLateIdSt, _CItan, _CIexp, __vbaFreeObj, __vbaFreeStr

Version Infos

Description	Data
Translation	0x0409 0x04b0
LegalCopyright	Copyright 2016-2021 Proton Clear
InternalName	Ditikeres4
FileVersion	1.00
CompanyName	Proton Clear Inc.
LegalTrademarks	Copyright 2016-2021 Proton Clear
Comments	Proton Clear
ProductName	Proton Clear
ProductVersion	1.00
FileDescription	ProtonClear
OriginalFilename	Ditikeres4.exe

Possible Origin

Language of compilation system	Country where language is spoken	Map
English	United States	

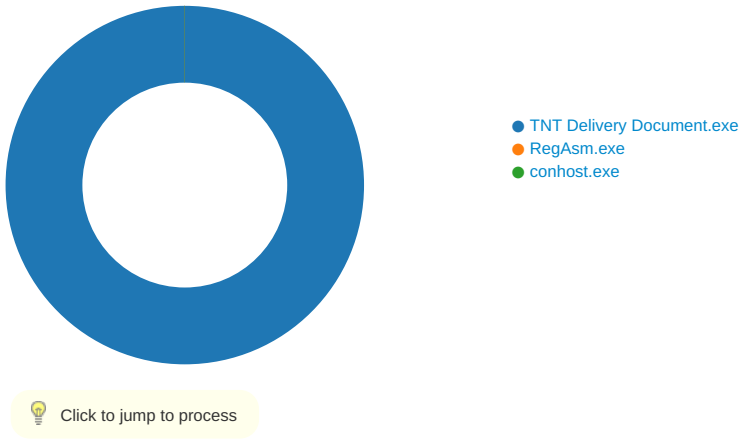
Network Behavior

No network behavior found

Code Manipulations

Statistics

Behavior



System Behavior

Analysis Process: TNT Delivery Document.exe PID: 6288 Parent PID: 5712

General

Start time:	15:00:57
Start date:	25/02/2021
Path:	C:\Users\user\Desktop\TNT Delivery Document.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\TNT Delivery Document.exe'
Imagebase:	0x400000
File size:	86016 bytes
MD5 hash:	CBAF832B5FF679EB876D12D89D337231
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Reputation:	low

File Activities

File Path	Offset	Length	Completion	Count	Source Address	Symbol

Registry Activities

Key Created

Key Path	Completion	Count	Source Address	Symbol
HKEY_CURRENT_USER\Software\VB and VBA Program Settings	success or wait	1	660E2872	RegCreateKeyW
HKEY_CURRENT_USER\Software\VB and VBA Program Settings\VAGTPOSTERS	success or wait	1	660E2872	RegCreateKeyW

Key Path	Completion	Count	Source Address	Symbol
HKEY_CURRENT_USER\Software\VB and VBA Program Settings\VAGTPOSTERS\Taylorismens	success or wait	1	660E2872	RegCreateKeyW

Key Value Created

Key Path	Name	Type	Data	Completion	Count	Source Address	Symbol
HKEY_CURRENT_USER\Software\VB and VBA Program Settings\VAGTPOSTERS\Taylorismens	Forsrget	unicode	Vareprves4	success or wait	1	660E2183	RegSetValueExW

Analysis Process: RegAsm.exe PID: 6392 Parent PID: 6288

General

Start time:	15:02:03
Start date:	25/02/2021
Path:	C:\Windows\Microsoft.NET\Framework\v4.0.30319\RegAsm.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\TNT Delivery Document.exe'
Imagebase:	0x8f0000
File size:	64616 bytes
MD5 hash:	6FD7592411112729BF6B1F2F6C34899F
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol

Analysis Process: conhost.exe PID: 4932 Parent PID: 6392

General

Start time:	15:02:04
Start date:	25/02/2021
Path:	C:\Windows\System32\conhost.exe
Wow64 process (32bit):	false
Commandline:	C:\Windows\system32\conhost.exe 0xffffffff -ForceV1
Imagebase:	0x7ff774ee0000
File size:	625664 bytes
MD5 hash:	EA777DEEA782E8B4D7C7C33BBF8A4496
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

Disassembly

Code Analysis