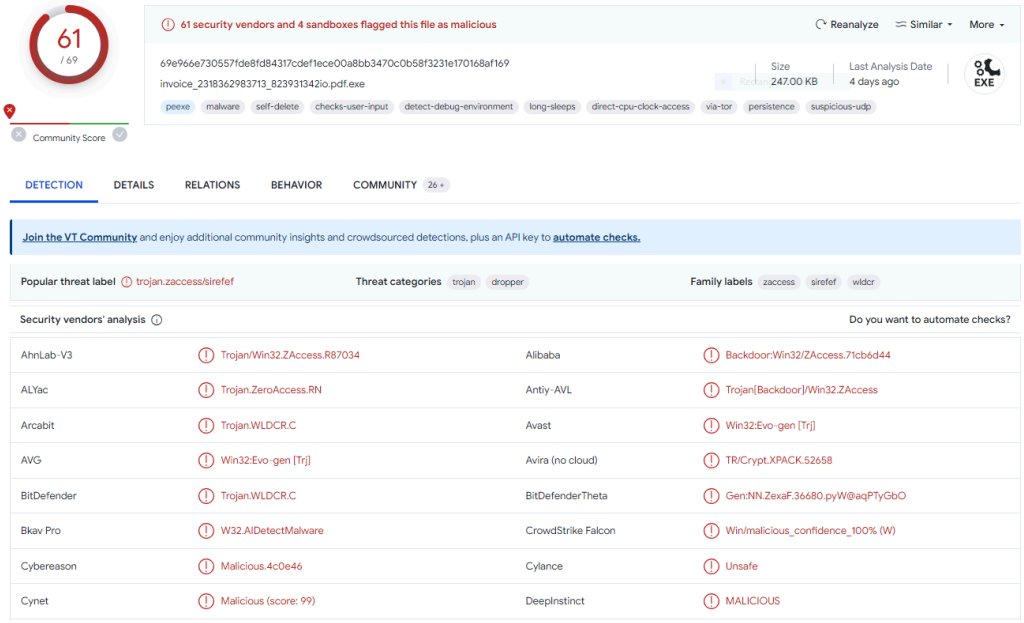
Zeus Banking Trojan Report



VirusTotal Report

Hashes

Md5: ea039a854d20d7734c5add48f1a51c34
sha1: 9615dca4c0e46b8a39de5428af7db060399230b2
sha256: 69e966e730557fde8fd84317cdef1ece00a8bb3470c0b58f3231e170168af169

Filename: invoice_2318362983713_823931342io.pdf.exe

Capa Output

md5	ea039a854d20d7734c5add48f1a51c34
sha1	9615dca4c0e46b8a39de5428af7db060399230b2
sha256	69e966e730557fde8fd84317cdef1ece00a8bb3470c0b58f3231e170168af169
os	windows
format	pe
arch	i386
path	C:/Users/Daniel/Desktop/invoice_2318362983713_823931342io.pdf.exe

ATT&CK Tactic	ATT&CK Technique
DEFENSE EVASION	Virtualization/Sandbox Evasion::System Checks T1497.001

MBC Objective	MBC Behavior
ANTI-BEHAVIORAL ANALYSIS	Virtual Machine Detection [B0009]

Capability	Namespace
reference anti-VM strings targeting VMWare	anti-analysis/anti-vm/vm-detection
resolve function by parsing PE exports	load-code/pe

Basic Static Analysis

names	
file	c:\users\daniel\desktop\invoice_2318362983713_823931342io.pdf.exe
debug	n/a
export	corect.com
version	n/a
manifest	n/a
.NET > module	n/a
certificate > program-name	n/a

Research showed this to be a Romanian News Source

property	value
section	section[0]
name	.text
footprint > sha256	8309B5D320B3D392E25AFD5...
entropy	6.707
file-ratio (99.60%)	18.42 %
raw-address (begin)	0x00000400
raw-address (end)	0x0000BA00
raw-size (251904 bytes)	0x0000B600 (46592 bytes)
virtual-address	0x00001000
virtual-size (250379 bytes)	0x0000B571 (46449 bytes)

Doesn't appear to be compressed, raw address and virtual are similar sizes

API CALLS:

ascii,14,section:.itext,-,import,windowing,-,CallWindowProc
ascii,12,section:.itext,-,import,windowing,-,UpdateWindow
ascii,24,section:.itext,x,import,windowing,-,AllowSetForegroundWindow
ascii,10,section:.itext,-,import,windowing,-,GetCapture
ascii,15,section:.itext,-,import,windowing,-,IsWindowEnabled
ascii,19,section:.itext,-,import,windowing,T1010 | Window Discovery,GetWindowTextLength
ascii,21,section:.itext,-,import,synchronization,-,DeleteCriticalSection
ascii,14,section:.itext,-,import,resource,-,SizeofResource
ascii,22,section:.itext,x,import,reconnaissance,-,GetEnvironmentVariable
ascii,16,section:.itext,-,import,reconnaissance,-,GetLogicalDrives
ascii,12,section:.itext,-,import,reconnaissance,T1124 | System Time Discovery,GetTickCount
ascii,12,section:.itext,-,import,reconnaissance,-,GetDriveType
ascii,22,section:.itext,x,import,reconnaissance,-,GetEnvironmentVariable
ascii,11,section:.itext,-,import,memory,-,LocalUnlock
ascii,8,section:.itext,-,import,memory,-,HeapFree
ascii,14,section:.itext,-,import,memory,T1055 | Process Injection,VirtualQueryEx
ascii,10,section:.itext,-,import,memory,-,LocalAlloc
ascii,9,section:.itext,-,import,memory,-,LocalFree

ascii,9,section:.itext,x,import,input-output,-,VkKeyScan
ascii,16,section:.itext,x,import,input-output,T1056 | Input Capture,GetAsyncKeyState
ascii,20,section:.itext,-,import,input-output,-,CopyAcceleratorTable
ascii,15,section:.itext,-,import,input-output,-,SwapMouseButton
ascii,19,section:.itext,x,import,file,-,PathRenameExtension
ascii,15,section:.itext,-,import,file,-,PathQuoteSpaces
ascii,11,section:.itext,-,import,file,-,PathCombine
ascii,9,section:.itext,x,import,file,-,WriteFile
ascii,21,section:.itext,-,import,file,-,GetCompressedFileSize
ascii,17,section:.itext,-,import,file,-,CreateFileMapping
ascii,12,section:.itext,x,import,file,T1083 | File and Directory Discovery,FindNextFile
ascii,16,section:.itext,x,import,execution,-,GetCurrentThread
ascii,20,section:.itext,-,import,execution,-,GetPrivateProfileInt
ascii,7,section:.itext,x,-,execution,T1106 | Execution through API,WinExec
ascii,11,section:.itext,-,import,dynamic-library,-,FreeLibrary
ascii,15,section:.itext,-,import,dynamic-library,-,GetModuleHandle

Suspected Function Calls

ascii,57,section:.pdata,-,-,-,-,AsksmaceaglyBubuPulsKaifTeasMistPeelGhisPrimChaoLyreroeno
ascii,15,section:.pdata,-,-,-,-,KERNEL32.MulDiv
ascii,35,section:.pdata,-,-,-,-,BagsSpicDollBikeAzonPoopHamsPyasmap
ascii,28,section:.pdata,-,-,-,-,KERNEL32.SetCurrentDirectory
ascii,11,section:.pdata,-,-,-,-,BardHolyawe
ascii,20,section:.pdata,-,-,-,-,SHLWAPI.SHFreeShared
ascii,47,section:.pdata,-,-,-,-,BathEftsDawnvilepughThroCymakohloverMitefuzerat
ascii,28,section:.pdata,-,-,-,-,SHLWAPI.PathMakeSystemFolder
ascii,41,section:.pdata,-,-,-,-,BemaCadsPodsWavyCedeRadsbrioOustPerefenom
ascii,21,section:.pdata,-,-,-,-,USER32.SetDlgItemText
ascii,33,section:.pdata,-,-,-,-,BullbonyaweeWaitsnugTierDriblibye
ascii,21,section:.pdata,-,-,-,-,KERNEL32.VirtualQuery
ascii,14,section:.pdata,-,-,-,-,CameValeWauler
ascii,15,section:.pdata,-,-,-,-,USER32.IsIconic
ascii,35,section:.pdata,-,-,-,-,CedeSalsshulLimyThroliraValeDonabox
ascii,18,section:.pdata,-,-,-,-,USER32.CreateCaret
ascii,24,section:.pdata,-,-,-,-,CellrotoCrudUntohighCols
ascii,19,section:.pdata,-,-,-,-,KERNEL32.CreateFile
ascii,25,section:.pdata,-,-,-,-,DenyLubeDunssawsOresvarut
ascii,26,section:.pdata,-,-,-,-,SHLWAPI.PathRemoveFileSpec
ascii,40,section:.pdata,-,-,-,-,DragRoutflusCrowPeatmownNewsyaksSerfmare
ascii,18,section:.pdata,-,-,-,-,USER32.DestroyIcon
ascii,11,section:.pdata,-,-,-,-,Dumpcotsavo

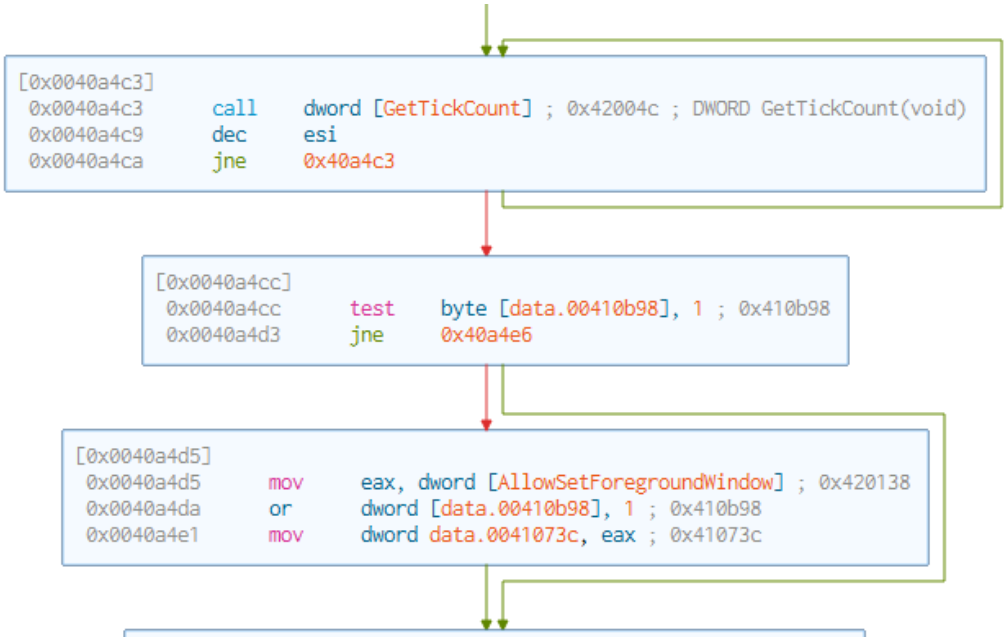
ascii,20,section:.pdata,-,-,-,-,USER32.SetDlgItemInt
ascii,62,section:.pdata,-,-,-,-,DungBadebankBangGelthoboCocaBozotsksWheyVaryShoghoseNi
psCadisi
ascii,15,section:.pdata,-,-,-,-,USER32.EndPaint
ascii,58,section:.pdata,-,-,-,-,ExitRollWoodGumsgamaSloerevsWussletssinkYearZitiryesHypout
ascii,19,section:.pdata,-,-,-,-,USER32.GetClassInfo
ascii,15,section:.pdata,-,-,-,-,FociTalcileador
ascii,29,section:.pdata,-,-,-,-,KERNEL32.ConvertDefaultLocale
ascii,10,section:.pdata,-,-,-,-,GeneAilshe
ascii,22,section:.pdata,-,-,-,-,KERNEL32.FindFirstFile
ascii,27,section:.pdata,-,-,-,-,GhisGoodHowlCoonCigscateged
ascii,28,section:.pdata,-,-,-,-,KERNEL32.GetWindowsDirectory
ascii,47,section:.pdata,-,-,-,-,GimpWadsdashHoraYardSeatDeanScanscowRantKeasfib
ascii,20,section:.pdata,-,-,-,-,KERNEL32.LCMapString
ascii,9,section:.pdata,-,-,-,-,Haesourfe
ascii,21,section:.pdata,-,-,-,-,USER32.GetKeyNameText
ascii,35,section:.pdata,-,-,-,-,HoggSoonLasstwaeNapeCeilBawlscopdub
ascii,29,section:.pdata,-,-,-,-,KERNEL32.SystemTimeToFileTime
ascii,13,section:.pdata,-,-,-,-,Icontellnoway
ascii,24,section:.pdata,-,-,-,-,SHLWAPI.PathRemoveBlanks
ascii,32,section:.pdata,-,-,-,-,ImidslatJokyCombdrubChefBilkSale
ascii,21,section:.pdata,-,-,-,-,USER32.GetShellWindow
ascii,56,section:.pdata,-,-,-,-,IzararfsFlamWostAirsconsMouefemelallPoretweeSacsOxidMinx
ascii,24,section:.pdata,-,-,-,-,SHLWAPI.PathAddExtension
ascii,39,section:.pdata,-,-,-,-,JabsNaveFateLariManyLeeksecshiesBawlwoo
ascii,31,section:.pdata,-,-,-,-,KERNEL32.CreateIoCompletionPort
ascii,24,section:.pdata,-,-,-,-,KatsDoreOmerBetsKoraKeef
ascii,25,section:.pdata,-,-,-,-,KERNEL32.GetShortPathName
ascii,12,section:.pdata,-,-,-,-,KineChamLows
ascii,28,section:.pdata,-,-,-,-,KERNEL32.SetCurrentDirectory
ascii,8,section:.pdata,-,-,-,-,LeerMiff
ascii,29,section:.pdata,-,-,-,-,KERNEL32.LeaveCriticalSection
ascii,43,section:.pdata,-,-,-,-,MaarSectFiscNextMattbamsErasnimstoeaBadshon
ascii,19,section:.pdata,-,-,-,-,USER32.GetClassInfo
ascii,31,section:.pdata,-,-,-,-,MarkMokeOsesShwaSkegpornlimemim
ascii,23,section:.pdata,-,-,-,-,KERNEL32.GetStartupInfo
ascii,50,section:.pdata,-,-,-,-,MeanOrrabirogirtWorkGawpSassPirnVinoLotaPledEidefe
ascii,20,section:.pdata,-,-,-,-,SHLWAPI.SHLockShared
ascii,22,section:.pdata,-,-,-,-,NextLoveOralwanySurfhm
ascii,28,section:.pdata,-,-,-,-,KERNEL32.VerSetConditionMask
ascii,47,section:.pdata,-,-,-,-,NisiBoyolineJiaoveryObiaowedblamHaetMaulweensky
ascii,24,section:.pdata,-,-,-,-,SHLWAPI.PathCanonicalize
ascii,32,section:.pdata,-,-,-,-,OastcabskamiKartDumbInksSomsMass
ascii,28,section:.pdata,-,-,-,-,KERNEL32.SetCurrentDirectory

ascii,19,section:.pdata,-,-,-,-,PeckQuinFillrillsaw
ascii,26,section:.pdata,-,-,-,-,KERNEL32.GetThreadPriority
ascii,20,section:.pdata,-,-,-,-,RamilimaputtHastJobs
ascii,21,section:.pdata,-,-,-,-,KERNEL32.FindNextFile
ascii,48,section:.pdata,-,-,-,-,RemsSlaySoreAnoaaxalbuffusesemeuMapsyogaHangLoud
ascii,22,section:.pdata,-,-,-,-,SHLWAPI.PathMakePretty
ascii,23,section:.pdata,-,-,-,-,RidsFineZingMickMomsdue
ascii,21,section:.pdata,-,-,-,-,USER32.GetMonitorInfo
ascii,25,section:.pdata,-,-,-,-,SeminerdsoloseenYaginobox
ascii,25,section:.pdata,-,-,-,-,SHLWAPI.PathIsLFNFileSpec
ascii,34,section:.pdata,-,-,-,-,SiretomsbritGrewIckyNapaLumsBoaren
ascii,24,section:.pdata,-,-,-,-,KERNEL32.OpenFileMapping
ascii,60,section:.pdata,-,-,-,-,SlabKitsSlayseptPfftjiffSabsdeskOafsNowtMemsKirnKepiMiffDunt
ascii,22,section:.pdata,-,-,-,-,KERNEL32.OpenSemaphore
ascii,28,section:.pdata,-,-,-,-,SoldKartAgueiliaRushWauldhal
ascii,17,section:.pdata,-,-,-,-,SHLWAPI.PathIsUNC
ascii,50,section:.pdata,-,-,-,-,SuitplieGunsMaidBaitFeusJiaotodycolyAlbsLuneToyspe
ascii,14,section:.pdata,-,-,-,-,USER32.GetProp
ascii,32,section:.pdata,-,-,-,-,SungActaKopsMaarposyparefuzedeck
ascii,23,section:.pdata,-,-,-,-,SHLWAPI.PathIsDirectory
ascii,43,section:.pdata,-,-,-,-,ToeaTailecusGeesSoliCadeSpueEndsPlaykaphall
ascii,22,section:.pdata,-,-,-,-,SHLWAPI.PathRemoveArgs
ascii,22,section:.pdata,-,-,-,-,Vavsrubepodsjadebrooli
ascii,19,section:.pdata,-,-,-,-,USER32.GetUpdateRgn
ascii,15,section:.pdata,-,-,-,-,VeerCrawFlateel
ascii,29,section:.pdata,-,-,-,-,SHLWAPI.PathParseIconLocation
ascii,27,section:.pdata,-,-,-,-,WainMeekPinyWonkpooflaudsir
ascii,28,section:.pdata,-,-,-,-,KERNEL32.GetWindowsDirectory
ascii,32,section:.pdata,-,-,-,-,WhopTestrangrapsdebsTzarNipaYins
ascii,19,section:.pdata,-,-,-,-,KERNEL32.DeleteFile
ascii,8,section:.pdata,-,-,-,-,YeukMags
ascii,21,section:.pdata,-,-,-,-,KERNEL32.GlobalHandle
ascii,57,section:.pdata,-,-,-,-,ZetaBeduPirnhipsjailTingSrisTeleAposhuskNameHoerflagemuwo
ascii,15,section:.pdata,-,-,-,-,USER32.LoadIcon

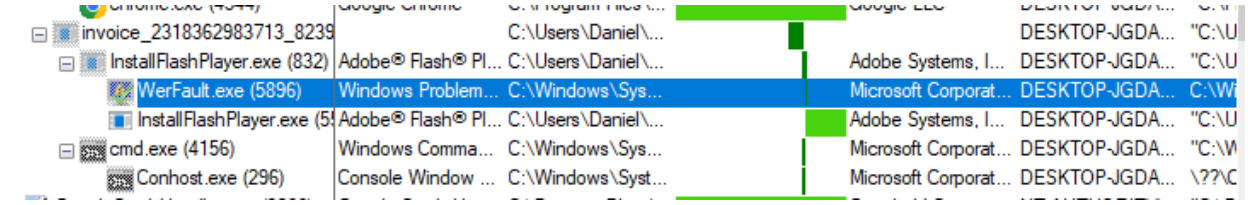
Libraries

- SHLAWPI.dll
- KERNEL32.dll
- USER32.dll

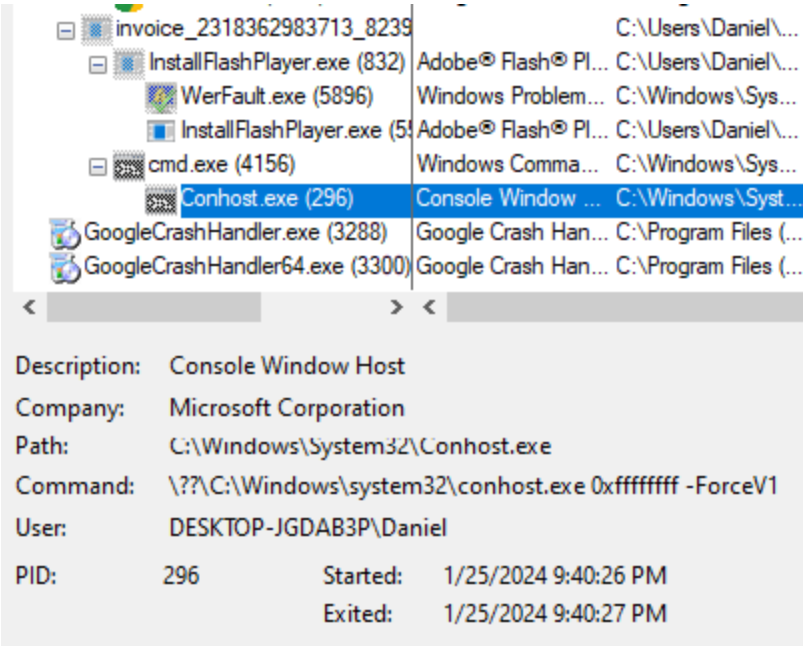
Advanced Static Code Analysis:



Dynamic Code Analysis



The .exe that the malware used to run



Hidden terminal session behind screen executing