

Summary

File Name: widebanner.png

File Type: PE32 executable (console) Intel 80386, for MS Windows

SHA1: 9b8c6f76a25d0974dfcd3b43daf34f07c8754a04

MD5: b17c0ef8b8c0a6740222305f5c20a8cf



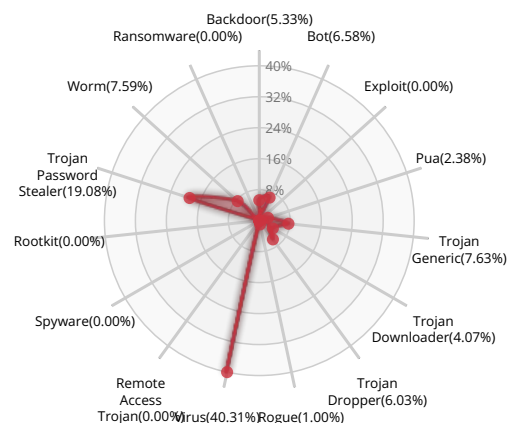
MALWARE

Valkyrie Final Verdict

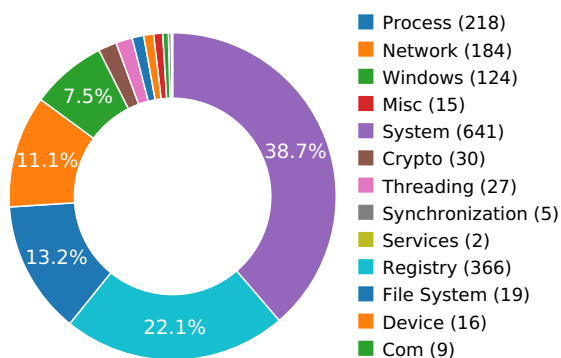
DETECTION SECTION



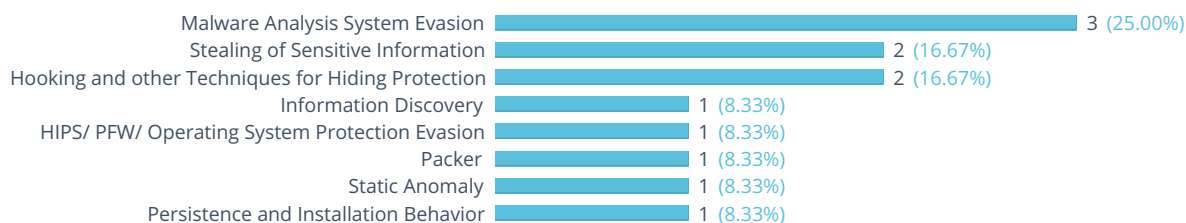
CLASSIFICATION



HIGH LEVEL BEHAVIOR DISTRIBUTION



ACTIVITY OVERVIEW



Activity Details

INFORMATION DISCOVERY



Reads data out of its own binary image

Show sources

HIPS/ PFW/ OPERATING SYSTEM PROTECTION EVASION



Attempts to identify installed AV products by registry key

Show sources

PACKER



The binary likely contains encrypted or compressed data.

Show sources

STEALING OF SENSITIVE INFORMATION



Collects information to fingerprint the system

Show sources

Collects information about installed applications

Show sources

STATIC ANOMALY



Anomalous binary characteristics

Show sources

HOOKING AND OTHER TECHNIQUES FOR HIDING PROTECTION



Creates RWX memory

Show sources

Code injection with CreateRemoteThread in a remote process

Show sources

PERSISTENCE AND INSTALLATION BEHAVIOR



Deletes its original binary from disk

Show sources

MALWARE ANALYSIS SYSTEM EVASION



Tries to suspend Cuckoo threads to prevent logging of malicious activity

Show sources

Detects VirtualBox through the presence of a registry key

Show sources

A process attempted to delay the analysis task by a long amount of time.

Show sources

Behavior Graph

09:01:1309:01:1509:01:17

PID 3044

09:01:13Create ProcessThe malicious file created a child process as 9b8c6f76a25d0974dfcd3b43daf34f07c8754a04.exe (PPID 2728)

- 09:01:14NtAllocateVirtualMem

09:01:14NtReadFile

09:01:14Create Process

09:01:14NtSuspendThread

09:01:15CreateRemoteThread

PID 1716

09:01:15Create ProcessThe malicious file created a child process as svchost.exe (PPID 3044)

- 09:01:17DeleteFileW

09:01:17RegQueryValueExA

09:01:17RegOpenKeyExA

09:01:17RegQueryValueExA

09:01:17RegOpenKeyExA

09:01:1709:01:17RegQueryValueExA
[16 times]

09:01:17NtDelayExecution

Behavior Summary

ACCESSED FILES

C:\Windows\System32*.exe

C:\Users\user\AppData\Local\Temp\9b8c6f76a25d0974dfcd3b43daf34f07c8754a04.exe

C:\

C:\ProgramData\Microsoft\Network\Connections\Pbk\rasphone.pbk

C:\ProgramData\Microsoft\Network\Connections\Pbk*.pbk

C:\Windows\System32\ras*.pbk

C:\Users\user\AppData\Roaming\Microsoft\Network\Connections\Pbk\rasphone.pbk

C:\Users\user\AppData\Roaming\Microsoft\Network\Connections\Pbk*.pbk

READ REGISTRY KEYS

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\CurrentVersion

HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\services\crypt32\DebugHeapFlags

HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Internet Settings\DisableImprovedZoneCheck

HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\CurrentVersion\Internet Settings\Security_HKLM_only

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\GRE_Initialize\DisableMetaFiles

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\InstallDate

HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Lsa\AccessProviders\MartaExtension

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\7-Zip\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\7-Zip\DisplayVersion

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\AddressBook\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Connection Manager\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\DirectDrawEx\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\DXM_Runtime\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Fontcore\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IE40\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IE4Data\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IE5BAKEX\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IEData\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\MobileOptionPack\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\MPlayer2\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Oracle VM VirtualBox Guest Additions\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Oracle VM VirtualBox Guest Additions\DisplayVersion

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Sandboxie\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Sandboxie\DisplayVersion
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Totalcmd64\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Totalcmd64\DisplayVersion
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{0D3E9E15-DE7A-300B-96F1-B4AF12B96488}\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{0D3E9E15-DE7A-300B-96F1-B4AF12B96488}\DisplayVersion
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HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\Interface\{26656EAA-54EB-4E6F-8F85-4F0EF901A406}\ProxyStubClsid32\{Default}
HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\Interface\{8A40A45D-055C-4B62-ABD7-6D613E2CEAEC}\ProxyStubClsid32\{Default}
HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\Interface\{55272A00-42CB-11CE-8135-00AA004BB851}\ProxyStubClsid32\{Default}
HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\CLSID\{B196B286-BAB4-101A-B69C-00AA00341D07}\{Default}

HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\CLSID\{B196B286-BAB4-101A-B69C-00AA00341D07}\InprocServer32\InprocServer32
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HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\CLSID\{B196B286-BAB4-101A-B69C-00AA00341D07}\InprocServer32\ThreadingModel
HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\Interface\{BCD1DE7E-2DB1-418B-B047-4A74E101F8C1}\ProxyStubClsid32(Default)
HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Wow6432Node\Interface\{2A1C9EB2-DF62-4154-B800-63278FCB8037}\ProxyStubClsid32(Default)
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\{E2D0CA08-2243-4725-9430-A8A2D5F46E6B}\WpadDecision
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\{E2D0CA08-2243-4725-9430-A8A2D5F46E6B}\WpadDecisionTime
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\WpadExpirationDays
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\WpadLastNetwork
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\AutoProxyDetectType
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASAPI32\EnableFileTracing
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASAPI32\FileTracingMask
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASAPI32\EnableConsoleTracing
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASAPI32\ConsoleTracingMask
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASAPI32\MaxFileSize
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASAPI32\FileDirectory
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASMANCS\EnableFileTracing
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Tracing\svchost_RASMANCS\FileTracingMask

RESOLVED APIS

user32.dll.FindWindowA
kernel32.dll.FreeConsole
kernel32.dll.GetProcessHeap
kernel32.dll.HeapAlloc
kernel32.dll.VirtualAlloc
kernel32.dll.VirtualProtect
kernel32.dll.VirtualFree
kernel32.dll.LoadLibraryA
kernel32.dll.GetProcAddress
kernel32.dll.UnmapViewOfFile
kernel32.dll.ExitThread
kernel32.dll.HeapReAlloc
cryptsp.dll.CryptAcquireContextW
cryptsp.dll.CryptGenRandom
cryptsp.dll.CryptReleaseContext

oleaut32.dll.#9
kernel32.dll.FreeLibrary
kernel32.dll.GetLastError
kernel32.dll.HeapFree
kernel32.dll.IsBadReadPtr
kernel32.dll.RtlMoveMemory
kernel32.dll.RtlZeroMemory
kernel32.dll.SetLastError
kernel32.dll.CreateThread
kernel32.dll.WaitForSingleObject
kernel32.dll.Sleep
ntdll.dll.vsprintf
ntdll.dll._chkstk
mprapi.dll.MprAdminMIBEntrySet
gdi32.dll.SaveDC
kernel32.dll.InterlockedExchange
kernel32.dll.GlobalLock
kernel32.dll.GetConsoleFontSize
kernel32.dll.LocalFlags
kernel32.dll.RaiseException
kernel32.dll.GetComputerNameW
kernel32.dll.LocalAlloc
cryptsp.dll.CryptCreateHash
cryptsp.dll.CryptHashData
cryptsp.dll.CryptGetHashParam
cryptsp.dll.CryptDestroyHash
ntmarta.dll.GetMartaExtensionInterface
rasapi32.dll.RasConnectionNotificationW
sechost.dll.NotifyServiceStatusChangeA
cryptbase.dll.SystemFunction036
ole32.dll.CoInitializeEx
advapi32.dll.RegDeleteTreeA
advapi32.dll.RegDeleteTreeW
ole32.dll.CoCreateInstance
ole32.dll.CoTaskMemAlloc

oleaut32.dll.#8
oleaut32.dll.DllGetClassObject
oleaut32.dll.DllCanUnloadNow
advapi32.dll.RegOpenKeyW
ole32.dll.CoTaskMemFree
ole32.dll.StringFromIID
iphlpapi.dll.GetAdaptersAddresses
dhcpcsvc.dll.DhcpRequestParams
oleaut32.dll.#2
oleaut32.dll.#6
ole32.dll.CoUninitialize
oleaut32.dll.#500

REGISTRY KEYS

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows NT\CurrentVersion
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\CurrentVersion
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\crypt32
HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\services\crypt32\DebugHeapFlags
HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Internet Settings
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Internet Settings\DisableImprovedZoneCheck
HKEY_LOCAL_MACHINE\Software\Policies\Microsoft\Windows\CurrentVersion\Internet Settings
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\CurrentVersion\Internet Settings\Security_HKLM_only
HKEY_LOCAL_MACHINE\Software\Microsoft\Windows NT\CurrentVersion\GRE_Initialize
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\GRE_Initialize\DisableMetaFiles
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\InstallDate
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\LSA\AccessProviders
HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Lsa\AccessProviders\MartaExtension
HKEY_LOCAL_MACHINE\SOFTWARE\TrendMicro\Vizor
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\7-Zip
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\7-Zip\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\7-Zip\DisplayVersion
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\AddressBook
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\AddressBook\DisplayName

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Connection Manager
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Connection Manager\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\DirectDrawEx
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\DirectDrawEx\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\DXM_Runtime
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\DXM_Runtime\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Fontcore
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Fontcore\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IE40
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IE40\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IE4Data
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\IE5BAKEX
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\MobileOptionPack
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\MPlayer2
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Oracle VM VirtualBox Guest Additions
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Sandboxie
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HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\SchedulingAgent
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\SchedulingAgent\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Totalcmd64
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Totalcmd64\DisplayName
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Totalcmd64\DisplayVersion
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\WIC
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MUTEXES

{1e3103f0-06a5-5093-dc6c-990355d9094a}
{3767e8f0-d83a-4339-8a0a-418e30bbe46d}
IESQMMUTEX_0_208

MODIFIED REGISTRY KEYS

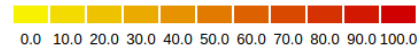
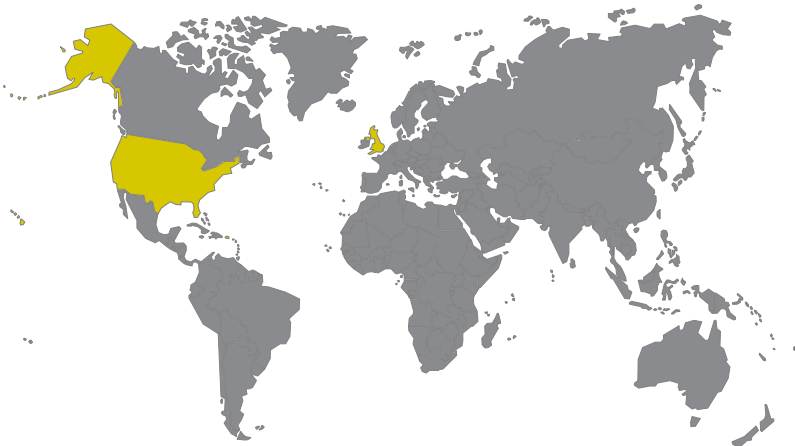
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\{E2D0CA08-2243-4725-9430-A8A2D5F46E6B}\WpadDecisionReason
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\{E2D0CA08-2243-4725-9430-A8A2D5F46E6B}\WpadDecisionTime
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\{E2D0CA08-2243-4725-9430-A8A2D5F46E6B}\WpadDecision
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\{E2D0CA08-2243-4725-9430-A8A2D5F46E6B}\WpadNetworkName
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\0a-00-27-00-00-00\WpadDecisionReason
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\0a-00-27-00-00-00\WpadDecisionTime
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\0a-00-27-00-00-00\WpadDecision

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Connections\DefaultConnectionSettings

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Wpad\WpadLastNetwork

Network Behavior

CONTACTED IPS

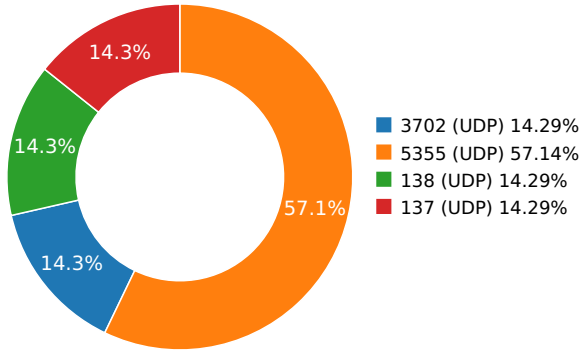


Name	IP	Country	ASN	ASN Name	Trigger Process Type
	210.2.86.72	Vietnam	24085	Quang Trung Software Developm...	Malware Process
	162.243.47.192	United States	14061 62567	DigitalOcean, LLC	Malware Process

UDP PACKETS

Call Time During Execution(sec)	Source IP	Dest IP	Dest Port
3.10201191902	Sandbox	224.0.0.252	5355
3.10532999039	Sandbox	192.168.56.255	137
3.10893893242	Sandbox	224.0.0.252	5355
3.3014690876	Sandbox	239.255.255.250	3702
5.67408704758	Sandbox	224.0.0.252	5355
9.20644497871	Sandbox	192.168.56.255	138
12.5319280624	Sandbox	224.0.0.252	5355

NETWORK PORT DISTRIBUTION



DETAILED FILE INFO

CREATED / DROPPED FILES

FILE PATH	TYPE AND HASHES
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MATCH YARA RULES

MATCH RULES

STATIC FILE INFO

File Name:	widebanner.png
File Type:	PE32 executable (console) Intel 80386, for MS Windows
SHA1:	9b8c6f76a25d0974dfcd3b43daf34f07c8754a04
MD5:	b17c0ef8b8c0a6740222305f5c20a8cf
First Seen Date:	2016-11-02 18:13:08.179944 (2 years ago)
Number Of Clients Seen:	4
Last Analysis Date:	2016-11-02 18:13:08.179944 (2 years ago)
Human Expert Analysis Result:	No human expert analysis verdict given to this sample yet.

DETAILED FILE INFO

ADDITIONAL FILE INFORMATION

PE Headers

PROPERTY	VALUE
Number Of Sections	6
Compilation Time Stamp	0x581A436B [Wed Nov 2 19:50:03 2016 UTC]
Entry Point	0x40c5b0 (.texT)
Machine Type	Intel 386 or later - 32Bit
File Size	143360
Sha256	94364afa3527bdd63e8bb4d4c0138d635fc16f96faded8580a7642cf3a900716
Mime Type	application/x-dosexec

PE Sections

NAME	VIRTUAL ADDRESS	VIRTUAL SIZE	RAW SIZE	ENTROPY	MD5
.texT	0x1000	0xb97a	0xc000	5.548878	-
.rdata	0xd000	0xa0b	0x1000	1.838017	-
.data	0xe000	0x2930	0x2000	1.126097	-
sdqv3e3	0x11000	0x8d1b	0x9000	7.705233[SUSPICIOUS]	-
.SE	0x1a000	0x876e	0x9000	7.806974[SUSPICIOUS]	-
.reloc	0x23000	0x96d	0x1000	0.559560[SUSPICIOUS]	-

PE Imports

- ntdll.dll
 - vsprintf
 - _chkstk
- MPRAPI.dll
 - MprAdminMIBEntrySet
- GDI32.dll
 - SaveDC
- KERNEL32.dll
 - FreeLibrary
 - InterlockedExchange
 - GetLastError
 - LoadLibraryA
 - GlobalLock
 - GetConsoleFontSize
 - LocalFlags
 - RaiseException
 - GetProcAddress
 - GetComputerNameW
 - LocalAlloc

CERTIFICATE VALIDATION

- Certificate Validation is not Applicable ?

SCREENSHOTS

