

Target Analysis Report

1. Static Analysis

(1) File Info

Field	Value
Target File Path	C:\DestDir\04.exe
Hashes	MD5: 70d41eadb33a9d48d112031733406655 SHA1: 013c77d3050346bcb2af4a49b141320467ed8e41 SHA256: d36727b07105a6d517cc0b0919770d027a938b7c5cb6784572cfe346a87c4815
Extension	.exe
MIME Type	application/x-dosexec
PE Signature	MZ_signature: 4D5A PE_signature: 50450000 PE_offset: 0xE8

(2) PE Analysis

1. Sections

Section Name	Size	Entropy
.text	196608	4.11
.rdata	12288	3.75
.data	20480	0.78
.idata	4096	2.64
.reloc	8192	4.91

Library: KERNEL32.dll

Suspicious Functions
IsDebuggerPresent
TerminateProcess
WriteFile
GetProcAddress
LoadLibraryA
CloseHandle
ReadFile

(3) LLM Analysis Result

Field	Value
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probability	0.9707
LLM Result	Malware

2. Dynamic Analysis

(1) API Monitor

Thread ID: 6132 / Type : Anti-Debugging

Type	Count
Ransomware	0
Loader	0
Infostealer	0
RAT	0
Enumeration	0
Injection	0
Evasion	216
Spying	0
Internet	0
Anti-Debugging	270
Helper	108

Thread ID: 3068 / Type : Injection

Type	Count
Ransomware	0
Loader	0
Infostealer	0
RAT	0
Enumeration	0
Injection	2
Evasion	0
Spying	0
Internet	0
Anti-Debugging	0
Helper	1

(2) Event Monitor

Security Event

Event ID: 4672

Field	Value
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event_provider	Microsoft-Windows-Security-Auditing
event_message	S-1-5-18 SYSTEM NT AUTHORITY 0x3e7 SeAssignPrimaryTo...
count	78

Event ID: 4624

Field	Value
event_provider	Microsoft-Windows-Security-Auditing
event_message	S-1-5-18 WIN-96EIKUG0K09\$ WORKGROUP 0x3e7 S-1-5-18 ...
count	88

System Event

Event ID: 7001

Field	Value
event_provider	Microsoft-Windows-Winlogon
event_message	2 S-1-5-21-1731306886-1182467717-1156262048-1003
count	2

Event ID: 6005

Field	Value
event_provider	EventLog
event_message	No additional information
count	2

Event ID: 6006

Field	Value
event_provider	EventLog
event_message	No additional information
count	2

(3) Network Monitor

IP Port List
13.107.21[.]239:443
13.107.246[.]74:443
146.75.42[.]172:80
146.75.94[.]172:80

192.168.140[.]147:137
192.168.140[.]147:49691
192.168.140[.]147:49813
192.168.140[.]147:49859
192.168.140[.]147:49893
192.168.140[.]147:49897
192.168.140[.]147:49943
192.168.140[.]147:49948
192.168.140[.]147:49949
192.168.140[.]147:52496
192.168.140[.]147:5353
192.168.140[.]147:57782
192.168.140[.]147:60127
192.168.140[.]147:60553
192.168.140[.]147:62845
192.168.140[.]1:50505
192.168.140[.]1:52286
192.168.140[.]1:5353
192.168.140[.]1:59090
192.168.140[.]2:137
192.168.140[.]2:53
20.198.119[.]84:443
204.79.197[.]239:443
216.239.34[.]157:443
224.0.0[.]251:5353
224.0.0[.]252:5355
40.115.3[.]253:443

(4) Memory Monitor

Process List

Process List
notepad.exe
gspawn-win32-helper-console.exe
prototype.exe
cmd.exe
g.exe
Runtime.exe

v8.exe
lsass.exe
04.exe
gspawn-win32-helper.exe

Strings

Strings
MDMP
AuthenticAMD
@YAw
/V'~
nBw
-Ewh
QuP!
\1Ew#
nBw
-Ewh

(5) Registry Monitor

Added

Registry
Software\Microsoft\Windows\CurrentVersion\Explorer\StartPage\StartMenu_Start_Time\■■p■■■■■
Software\Sysinternals\ProcDump\EulaAccepted\1

(6) Final Type

Field	Value
Type	Anti-Debugging

Appendix

Library: KERNEL32.dll

Suspicious Functions	Entire Functions
IsDebuggerPresent	IsDebuggerPresent
TerminateProcess	Sleep
WriteFile	MultiByteToWideChar
GetProcAddress	GetCommandLineA
LoadLibraryA	GetVersion
CloseHandle	ExitProcess
ReadFile	RtlUnwind
	RaiseException
	IsBadWritePtr
	IsBadReadPtr
	HeapValidate
	TerminateProcess
	GetCurrentProcess
	DebugBreak
	GetStdHandle
	WriteFile
	InterlockedDecrement
	OutputDebugStringA
	GetProcAddress
	LoadLibraryA
	InterlockedIncrement
	GetModuleFileNameA
	UnhandledExceptionFilter
	FreeEnvironmentStringsA
	FreeEnvironmentStringsW
	WideCharToMultiByte
	GetEnvironmentStrings
	GetEnvironmentStringsW
	SetHandleCount
	GetFileType
	GetStartupInfoA
	GetModuleHandleA
	GetEnvironmentVariableA
	GetVersionExA
	HeapDestroy
	HeapCreate
	HeapFree
	VirtualFree
	GetLastError

	SetFilePointer
	FlushFileBuffers
	CloseHandle
	SetUnhandledExceptionFilter
	HeapAlloc
	HeapReAlloc
	VirtualAlloc
	SetConsoleCtrlHandler
	GetCPInfo
	GetACP
	GetOEMCP
	IsBadCodePtr
	ReadFile
	SetStdHandle
	GetStringTypeA
	GetStringTypeW
	LCMapStringA
	LCMapStringW

API/Function Calls

Thread ID: 6132

API/Function
RtlAllocateHeap
SetProcessDynamicEnforcedCetCompatibleRanges
WriteFile
NtWriteFile
SleepEx
Sleep
RtlGetCurrentServiceSessionId
IsDebuggerPresent
ZwAllocateVirtualMemory
RtlDosPathNameToRelativeNtPathName_U_WithStatus
RtlInterlockedCompareExchange64
RtlRunOnceComplete
RtlUppcaseUnicodeChar
ZwDelayExecution

Thread ID: 3068

API/Function
EtwpGetCpuSpeed
RtlExitUserThread
RtlGetGroupSecurityDescriptor
NtQueryInformationThread
ZwTerminateThread
RtlEnterCriticalSection
memset
TpCheckTerminateWorker
RtlFreeActivationContextStack
RtlReleaseSRWLockExclusive
RtlRetrieveNtUserPfn
RtlGetCurrentServiceSessionId
RtlAcquireSRWLockExclusive
memcmp
LdrShutdownThread
RtlDisownModuleHeapAllocation
RtlFreeHeap

RtlSetThreadWorkOnBehalfTicket
RtlLockHeap
RtlFreeThreadActivationContextStack
TpCallbackIndependent
ZwWaitForWorkViaWorkerFactory
RtlGetNtGlobalFlags
RtlInterlockedCompareExchange64
RtlLeaveCriticalSection

Network Traffic

Protocol	Src:Port	Dst:Port	Payload Len
UDP	192.168.140[.]1:59090	224.0.0[.]252:5355	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:59090	224.0.0[.]252:5355	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]147:52496	192.168.140[.]2:53	
TCP	192.168.140[.]147:49943	13.107.21[.]239:443	
TCP	13.107.21[.]239:443	192.168.140[.]147:49943	
TCP	13.107.21[.]239:443	192.168.140[.]147:49943	
TCP	192.168.140[.]147:49943	13.107.21[.]239:443	
UDP	192.168.140[.]147:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:50505	224.0.0[.]252:5355	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:50505	224.0.0[.]252:5355	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]147:52496	192.168.140[.]2:53	
UDP	192.168.140[.]147:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:52286	224.0.0[.]252:5355	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]1:52286	224.0.0[.]252:5355	
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]147:57782	192.168.140[.]2:53	
UDP	192.168.140[.]2:53	192.168.140[.]147:57782	
UDP	192.168.140[.]147:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]147:5353	224.0.0[.]251:5353	
TCP	13.107.246[.]74:443	192.168.140[.]147:49813	31
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	

UDP	192.168.140[.]147:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
UDP	192.168.140[.]147:60553	192.168.140[.]2:53	
UDP	192.168.140[.]2:53	192.168.140[.]147:60553	
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	184
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	1460
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	1460
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	1163
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	158
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	51
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	349
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	1413
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	103
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	281
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	368
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	99
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	120
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
TCP	40.115.3[.]253:443	192.168.140[.]147:49948	120
TCP	192.168.140[.]147:49948	40.115.3[.]253:443	
TCP	216.239.34[.]157:443	192.168.140[.]147:49859	1153
UDP	192.168.140[.]1:5353	224.0.0[.]251:5353	
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
TCP	192.168.140[.]147:49897	146.75.42[.]172:80	353
TCP	146.75.42[.]172:80	192.168.140[.]147:49897	
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
TCP	146.75.42[.]172:80	192.168.140[.]147:49897	596

TCP	192.168.140[.]147:49893	20.198.119[.]84:443	99
TCP	20.198.119[.]84:443	192.168.140[.]147:49893	
TCP	146.75.42[.]172:80	192.168.140[.]147:49897	596
TCP	192.168.140[.]147:49897	146.75.42[.]172:80	
TCP	20.198.119[.]84:443	192.168.140[.]147:49893	169
TCP	20.198.119[.]84:443	192.168.140[.]147:49893	169
TCP	192.168.140[.]147:49893	20.198.119[.]84:443	
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
UDP	192.168.140[.]147:137	192.168.140[.]2:137	56
TCP	146.75.94[.]172:80	192.168.140[.]147:49691	
UDP	192.168.140[.]147:62845	192.168.140[.]2:53	
UDP	192.168.140[.]147:60127	192.168.140[.]2:53	
UDP	192.168.140[.]2:53	192.168.140[.]147:62845	
UDP	192.168.140[.]2:53	192.168.140[.]147:60127	
TCP	192.168.140[.]147:49949	204.79.197[.]239:443	
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	
TCP	192.168.140[.]147:49949	204.79.197[.]239:443	
TCP	192.168.140[.]147:49949	204.79.197[.]239:443	2004
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	154
TCP	192.168.140[.]147:49949	204.79.197[.]239:443	51
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	
TCP	192.168.140[.]147:49949	204.79.197[.]239:443	99
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	
TCP	192.168.140[.]147:49949	204.79.197[.]239:443	553
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	69
TCP	192.168.140[.]147:49949	204.79.197[.]239:443	38
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	38
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	1460
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	1460
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	1460
TCP	204.79.197[.]239:443	192.168.140[.]147:49949	1460

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