Target Analysis Report

1. Static Analysis

(1) File Info

Field	Value
Target File Path	C:\Users\User\Desktop\DestDir\04.exe
Hashes	MD5: 70d41eadb33a9d48d112031733406655 SHA1: 013c77d3050346bcb2af4a49b141320467ed8e41 SHA256: d36727b07105a6d517cc0b0919770d027a938b7c5cb6784572cfe34 6a87c4815
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: 1100 / Type: Anti-Debugging

Туре	Count
Ransomware	0
Loader	0
Infostealer	0
RAT	0
Enumeration	0
Injection	1
Evasion	196
Spying	0
Internet	0
Anti-Debugging	294
Helper	98

Thread ID: 10932 / Type : Injection

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

Thread ID: 10428 / Type : Injection

Туре	Count
Ransomware	0
Loader	0
Infostealer	0
RAT	0

Enumeration	0
Injection	2
Evasion	0
Spying	0
Internet	0
Anti-Debugging	0
Helper	1

Thread ID: 11196 / Type : Injection

Туре	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
event_provider	Microsoft-Windows-Security-Auditing
event_message	S-1-5-18 SYSTEM NT AUTHORITY 0x3e7 SeAssignPrimaryTo
count	3526

Event ID: 4624

Field	Value
event_provider	Microsoft-Windows-Security-Auditing
event_message	S-1-5-18 WINDEV2407EVAL\$ WORKGROUP 0x3e7 S-1-5-18
count	3765

Event ID: 4625

Field	Value	
event_provider	Microsoft-Windows-Security-Auditing	
event_message	S-1-5-18 WINDEV2407EVAL\$ WORKGROUP 0x3e7 S-1-0-0 U	
count	71	

System Event

Event ID: 7001

Field	Value
event_provider	Microsoft-Windows-Winlogon
event_message	1 S-1-5-21-3265271812-2414955610-4255099824-1000
count	180

Event ID: 7036

Field	Value	
event_provider	VfpExt	
event_message	Driver load complete	
count	384	

Event ID: 6005

Field	Value	
event_provider	EventLog	
event_message	No additional information	
count	192	

Event ID: 6006

Field	Value
event_provider	EventLog
event_message	No additional information
count	140

(3) Network Monitor

IP Port List	
10.0.2[.]15:49818	
10.0.2[.]15:5353	

10.0.2[.]15:55649	
10.0.2[.]15:57285	
10.0.2[.]15:57443	
13.107.246[.]74:443	
168.126.63[.]1:53	
224.0.0[.]251:5353	

(4) Memory Monitor

Process List

Process List	
Runtime.exe	
g.exe	
lsass.exe	
notepad.exe	
cmd.exe	
gspawn-win32-helper-console.exe	
04.exe	
prototype.exe	
gspawn-win32-helper.exe	
v8.exe	

Strings

Strings		
MDMP		
AuthenticAMD		
9+1'		
z:y`F#		
]#S{X\$		
});		
}		
)) ;		
NB10		
Z:_My Project\CodeEngn\Challenge v2.0\Reverse\04\src\Debug\01-IsDebuggerPresent.pdb		

(5) Registry Monitor

Modified

Registry Software\Classes\Local Settings\Software\Microsoft\Windows\Shell\BagMRU\MRUListEx

(6) Final Type

Field	Value
Туре	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
SetrileFollitei
FlushFileBuffers
CloseHandle
SetUnhandledExceptionFilter
HeapAlloc
HeapReAlloc
VirtualAlloc
SetConsoleCtrlHandler
GetCPInfo
GetACP
GetOEMCP
IsBadCodePtr
ReadFile
SetStdHandle
GetStringTypeA
GetStringTypeW
LCMapStringA
LCMapStringW

API/Function Calls

Thread ID: 1100

API/Function				
IsDebuggerPresent				
RtlDelayExecution				
RtlRunOnceBeginInitialize				
LdrpResGetMappingSize				
RtlReAllocateHeap				
ZwDelayExecution				
RtlNumberOfSetBitsUlongPtr				
GetNumaNodeProcessorMask2				
SleepEx				
RtlGetCurrentServiceSessionId				
WriteFile				
ZwWriteFile				
NtAllocateVirtualMemory				
RtlInitializeCriticalSectionEx				
RtlAllocateHeap				
RtlInterlockedCompareExchange64				
RtlWow64GetEquivalentMachineCHPE				
Sleep				

Thread ID: 10932

API/Function
RtlDebugPrintTimes
TpCallbackIndependent
RtlDisownModuleHeapAllocation
RtlLeaveCriticalSection
RtlFreeActivationContextStack
TpWorkOnBehalfSetTicket
NtQueryInformationThread
RtlAcquireSRWLockShared
RtlFreeHeap
RtlAcquireSRWLockExclusive
RtlExitUserThread
MicrosoftTelemetryAssertTriggeredUM
RtlNumberOfSetBitsUlongPtr

LdrShutdownThread
TpWorkOnBehalfClearTicket
RtlFreeThreadActivationContextStack
memcmp
ZwTerminateThread
RtlGetGroupSecurityDescriptor
RtlGetCurrentServiceSessionId
RtlRemovePropertyStore
TpCheckTerminateWorker
RtlReleaseSRWLockShared
RtlReleaseSRWLockExclusive
RtlInterlockedCompareExchange64
RtlGetImageFileMachines

Thread ID: 10428

API/Function
RtlFormatMessageEx
RtlDebugPrintTimes
TpCallbackIndependent
RtlDisownModuleHeapAllocation
RtlClearThreadWorkOnBehalfTicket
RtlLeaveCriticalSection
RtlFreeActivationContextStack
TpWorkOnBehalfSetTicket
NtQueryInformationThread
RtlAcquireSRWLockShared
RtlFreeHeap
RtlAcquireSRWLockExclusive
memset
NtWaitForWorkViaWorkerFactory
RtlExitUserThread
RtlNumberOfSetBitsUlongPtr
RtlSetThreadWorkOnBehalfTicket
LdrShutdownThread
TpWorkOnBehalfClearTicket
RtlFreeThreadActivationContextStack
memcmp
ZwTerminateThread

RtlGetGroupSecurityDescriptor
RtlRetrieveNtUserPfn
RtlGetCurrentServiceSessionId
RtlUTF8ToUnicodeN
RtlGetImageFileMachines
RtlRemovePropertyStore
TpCheckTerminateWorker
EtwpGetCpuSpeed
RtlReleaseSRWLockShared
RtlReleaseSRWLockExclusive
RtlEnterCriticalSection
RtlInterlockedCompareExchange64
MicrosoftTelemetryAssertTriggeredUM

Thread ID: 11196

API/Function
RtlDebugPrintTimes
TpCallbackIndependent
RtlDisownModuleHeapAllocation
RtlLeaveCriticalSection
RtlFreeActivationContextStack
TpWorkOnBehalfSetTicket
NtQueryInformationThread
RtlAcquireSRWLockShared
RtlFreeHeap
RtlAcquireSRWLockExclusive
RtlExitUserThread
MicrosoftTelemetryAssertTriggeredUM
RtlNumberOfSetBitsUlongPtr
LdrShutdownThread
TpWorkOnBehalfClearTicket
RtlFreeThreadActivationContextStack
тетстр
ZwTerminateThread
RtlGetGroupSecurityDescriptor
RtlGetCurrentServiceSessionId
RtlRemovePropertyStore
TpCheckTerminateWorker

RtlReleaseSRWLockShared		
RtlReleaseSRWLockExclusive		
RtlInterlockedCompareExchange64		
RtlGetImageFileMachines		

Network Traffic

Protocol	Src:Port	Dst:Port	Payload Len
UDP	10.0.2[.]15:5353	224.0.0[.]251:5353	
UDP	10.0.2[.]15:57443	168.126.63[.]1:53	
UDP	10.0.2[.]15:57285	168.126.63[.]1:53	
UDP	168.126.63[.]1:53	10.0.2[.]15:57285	
UDP	168.126.63[.]1:53	10.0.2[.]15:57443	
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	1793
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	99
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	607
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1176
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1441
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	74
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	92
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	272
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	667
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	31
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460

TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1088
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1274
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	904
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1398
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1150
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	778
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460

TCP	13.107.246[.]74:443	10.0.2[.]15:49818	1460
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	481
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	
UDP	10.0.2[.]15:5353	224.0.0[.]251:5353	
UDP	10.0.2[.]15:55649	168.126.63[.]1:53	
UDP	168.126.63[.]1:53	10.0.2[.]15:55649	
TCP	10.0.2[.]15:49818	13.107.246[.]74:443	1
TCP	13.107.246[.]74:443	10.0.2[.]15:49818	
UDP	10.0.2[.]15:5353	224.0.0[.]251:5353	