Topics	CAPE
361 A 1 C D 1	Sandbox
Malware Analysis Fundamentals	CFF Explorer
Introduction	CloneZilla
Malware Analysis Lab	code 4
Static Properties Analysis	
Behavioral Analysis Essentials 610.1–52-77	Cscript №
Code Analysis Essentials	
Exploring Network Interactions $\dots 610.1-112-132$	Cutter
D	CyberChef
Reversing Malicious Code	
Core Reversing Concepts	Dd
Reversing Functions	de4dot
Control Flow In-Depth	DIE
API Patterns in Malware 610.2–136-144	$\dots \dots $
64-bit Code Analysis610.2–146-161	$dnSpyEx \dots 610.4-108-109, 113, 116-126$
	Locals
Analyzing Malicious Documents and Scripts	Modules
Malicious PDF File Analysis 610.3–3-35	DotDumper
VBA Macros in MS Office Docs610.3–37-78	dotPeek
Examining Malicious RTF Files 610.3–80-100	Ether
Deobfuscating Malicious Javascript 610.3–102-118	evilclippy 🚨
	Exeinfo PE
In-Depth Malware Analysis	610.4–12
Recognizing Packed Malware610.4–3-13	exiftool 4
Getting Started with Unpacking 610.4–15-26	fakedns 4
Using Debuggers for Dumping 610.4–28-42	feh
Debugging Packed Malware	Fiddler
Analyzing Multi-Technology MW 610.4–56-104	
	file \(\delta \)
Examining .NET Malware	FileScan.io
Understanding Code Injection 610.4–134-152	FLOSS
The state of the late of the l	FOG
Examining Self-Defending Malware	format-bytes
Debugger Detection and Data Prot610.5–3-41	Ghidra
Unpacking Process Hollowing	
Detecting the Analysis Toolkit 610.5–61-92	
Handling Misdirection Techniques610.5–94-142	
Unpacking by Anticipating Actions 610.5–144-167	
	CodeBrowser
	Confused
Cotogonica	Decompiler
${f Categories}$	Find Location (shortcut) 610.4–148
m 1	Saved Work
Tools	grep 4
accept-all-ips 🌢	gunzip $^{\triangle}$
	HashSets
AlgoVPN	Hopper
Any.run610.1–13	httpd 🚨
API Monitor	Hybrid Analysis
$\mathtt{base64dump} \ ^{\color{red} \textcolor{red}{\$}} \ \dots \dots \dots \dots \dots 610.3 6971, \ 74$	Hyper-V
$\dots \dots $	iconv 🐧
bbcrack $lacksquare$ $610.5 ext{}19$	IDA
Binary Ninja	ILSpy 🎉
box-js <mark>∆</mark>	ilspycmd △
brxor 💆	Imports Fixer
Burp	InetSim
bytehist 4	Intezer Analyze
Capa	iptables 4
610 5–45-46	iptables ₩010.1-127-129

jq 🗴	
js 🔬	610.3-106-107, 114
js-beautify 🗴	610.3–104
	610.4–71
LibreOffice	610.3–44
logman 🧗	
Malware Hash Registry	
MetaDefender	
nc 🗴	
numbers-to-string 💆	
oledump 610.3-47, 51, 58	
OleTools	
olevba 🙆	
OllyDumpEx (xdbg plugin)	
Ony Dump Ex (x dog prugm)	
Open Threat Exchange	
OpenVPN	
pdf-parser 💌	
pdfid 💆	
pdftk 4	
PE Tools	
$peframe ext{ } extstyle extstyl$	
pestr 🌢	
PEStudio610.	
610.4-	10, 102, 109-110, 127
	$\dots 610.5 - 37, 58, 113$
pe_unmapper	$. \dots . 610.5 – 163 - 164$
Pinpoint	$\dots \dots 610.3-19$
PowerShell ISE 🎉	$\dots 610.4 - 76 - 79$
ProcDOT	$\dots 610.1-53, 64-66$
Process Hacker	
Process Monitor	
······	
qpdf ₫	
Quttera	
rar 🌢	
re-search 💆	
reg_export *	
RegShot	
REM	
rtfdump 💆	
rtfobj 🕹	
Runsc32	
Runsc64	
ScDbg 🧗	
Scdbgc	
Scout	
Scylla	610.4–22-24, 29, 36
Scylla (xdbg plugin)	$\dots \dots 610.4 - 40 - 41$
	$\dots 610.5-112, 164$
ScyllaHide (xdbg plugin)	
Socurity Troils	610 1 12 16

sed 🙆	610.3–51, 60
set-static-ip 💩	
SetDllCharacteritics 🐉	610 4–19-20
sets 💆	
Shodan	
Speakeasy	010.1-85-80
SpiderMonkey	610.3–106-107, 114
	610.4–71
sshd 🚨	
strdeob 🐘	
strings 👃	
Sysmon	610.2–19
TcpLogView	
ThreatFox	
Thug	
tr 🌢	610 4–71
trid 🙆	
UnpacMe @	
unzip 4	
UrlScan.io	
VBoxCloak	
ViperMonkey	
VirtualBox	
VirusTotal	
Visual Studio Code	
VMWare	
VMWareCloak	
wget 👃	
Winbindex	610.1–13
Windbg	610.1–81
WinSCP *	$\dots 610.4-70, 74$
Wireshark	
X32dbg	
SEH Chain	
X64dbg	
cleardb	
Unpacking Scripts	
xAnalyzer (xdbg plugin)	
xmldump 💆	
xorsearch 🕹	
xxd 🙆	
yara-rules 🌢	
zipdump 💆	$\dots 610.3-43, 55$

API Calls	
BlockInput	$\dots \dots $
CallNextHookEx	610.5–70-71
	erPresent610.5–12
	ats
	610.1–85
	610.2–141
	610.3–96
	610.2–143
	610.2-37
	610.4–136, 138, 151
	,
_	pshot
	610.1–98-100
V 2	
	610.1–85
	610.5–74
	610.2–140-141
	610.5–78
	610.5–141
	610.5–79
v	610.2–140
	610.5-65
	$\dots \dots $
	$\dots \dots $
	$\dots \dots $
	$\dots \dots $
$\operatorname{GetModuleHandle}$	$\dots \dots 610.4-151$
	$\dots \dots $
$\operatorname{GetModuleHandleW}$	610.5–77, 81
	$\dots \dots $
	$\dots \dots $
	$\dots \dots 610.5-51, 148$
$GetSystemTime \dots$	$\dots \dots $
GetTempFileNameW	$\dots \dots $
	. 610.2–121-122, 126, 128-129
	610.1–47, 610.5–65
	$\dots \dots $
	610.3–75
	610.2–46, 51-54
	610.3-75
	610.2–46
	610.2–46-49, 55
	610.3–75
	610.1–89
	610.2–56
	610.3–75
<i>j</i> ==	

	610.4–80
	$\dots \dots 610.5 - 146 - 151$
LockResource	$\dots \dots 610.2 - 140 - 141$
NtQueryInformationFile	610.1–21
NtQueryInformationProc	
NtUnmapViewOfSection	
OpenProcess	
OutputDebugString	
Process32First	610.4–136, 149-150
	610.5–84
Process32Next	
RaiseException	
ReadFile	
	610.3–96
	610.3–45
RegOpenKeyExA	
RegOpenKeyExW	610.5–88
RegQueryValueA	
RegSetValueExA	
ResumeThread	
RtlDecompressBuffer	
SetWindowsHookExA	
ShellExecuteA	
ShellExecuteW	
SizeOfResource	
UnhookWindowsHookEx	
URLDownloadToFileA.	
VirtualAlloc	
VirtualAllocEx	
	610.5–50, 52, 145
VirtualProtect	
	610.5–153-155, 158-159
WriteFile	
WriteProcessMemory	610.4.126.129.144.151
	610.4-130, 138, 144-131 610.5-50, 52-54, 145
	$\dots 010.5-50, 52-54, 145$

${f A}$	Assembly.Load ~	
Access Restrictions	A all that DNG	
Access Violation \rightarrow Memory Access Violation	Authoritative DNS	
ActiveX Control	Automated Analysis Sandbox	
ActiveX Object	Automated Tools	
Activity Diagram	Automatic Action	
Addressing	AutoOpen	
AddressOfEntryPoint	AVG Security Software	
ADMX	Avghookx.dll	610.5-77
ADS		
Affiliate ID	В	
	ъ	
AI Tools	Backdoor	610 1_11/
AlgoVPN	Dackgooi	
AMSI Monitoring *	Balbuzard Toolkit	
Analysis Lab	Base	
Annot (keyword)	Base64	
ANSI	Dascot	
Anti-Debugging	Basic Block	
Defenses	BAT 🖺	
Lessons Learned	Beaconing	
Technique	Behavioral Analysis	
	Denavioral Analysis	
Anti-Malware Scan Interface \rightarrow AMSI		
Antivirus Scanners	Findings	
Any.run	Initial	
API Calls	Tools	
	BeingDebugged	
	BHO	
Examples \rightarrow see Categories	Binary Content	
Patterns	Bit Manipulation Instructions	
Risky	Boolean Instructions	
	Botnet	
Code Injection	Branching	
$\ldots \ldots 610.5 – 27$	Instructions	
DLL Loading At Runtime 610.5–146-148	Primitive	
Process Hollowing	Breakpoint6	
Spying		
API References	610.4	
AppData610.1–39	Defense	
Arbitrary Code	Hardware	
Argument	610.5 - 105, 12	
64-bit	Trigger	
Display	$Set \rightarrow SetBPX$	
Example	Software	
Location	610	
Argument Register	Failure610	0.5-122, 167
Arguments.callee 🖥	Browser Attacks	
Arithmetic Instructions	Browser Field Formatter	
Armadillo	Browser Script	
ASLR	Byte-Usage Histogram	
$\dots \dots $		
Disable		
Assemblies	\mathbf{C}	
Assembly	_	
Assembly (64-bit)	C Representation	610.2-6
Comparison 32-bit	CALL	
Assembly Explorer		,

Step Into/Over	SEH
Suspicious	Compound Expression
Tricky Jump	Compressed Source Code \rightarrow P-code
Call Operand	Conditional Instructions
Call Stack	Conditional Jump610.2–14, 22, 40-44, 99, 109, 122
	Container
	Content-Disposition (header)
Calling Conventions \rightarrow Functions	Context
Capabilities \rightarrow Malware Analysis	Control Channels
CAPE	Control Variable
Carry Flag	Control Words
Cdecl	Counter-Defenses
CDFV2	CPU
CFBF	CPU Core
ChatGPT	CREATE_SUSPENDED610.5–49
CIL	Cross-Reference Table
Cleardb (x64dbg)	Cross-References
Clipboard	CSV 🖹
Cloaking Capabilities	
Cloud Policy	D
Cloudflare	D
CLR	
CMP	Data Manipulation Instructions610.2–38
Cobalt Strike	Data Segment
Code Analysis	Data Structure
	Data Transfer Instructions
Approaches	Data Type Manager
Comparison 32/64-bit	DCTDecode
	Debug Shell
Findings	Debugging
Key Concepts	
Prior Step	
Start	
Tools	
True Beginning	Concealment
Code Block	Detection
Code Injection	Without Dumping Packed Code 610.4–45-46, 54
API Calls	Decision Point
	Decoding
Combined With Packing	Decoding Patterns
DLL610.4–151	Decompilation
Example	
Lessons Learned	Default Configuration
Memory Allocation	Default Hardware
Pattern	Defined Strings
Security Tools	Deobfuscation
Static Code Analysis	$\dots \dots $
Steps	
Target Processes	Dereferencing
Code Lifecycle	Destination Unreachable
Code Segment	Detection Evasion 610.3–8, 11, 18, 31, 38, 46, 93-94
Code-Data Duality	$\dots \dots $
Command & Control (C2)	610.5–92, 139
	Device Drivers
•	Digital Signature
Command Execution	610.3–39
Comment	Direct Addressing
Compiled Code \rightarrow P-code	Disassembly
Compiler	
JIT610.4–107	

Obfuscated Code 610.5–118 Disk Cloning 610.1–34 Disk Drive Identifier 610.5–88 DLL 610.1–14	Tools
Do While Loop 610.2–112 Example 610.2–120 Document.write 610.3–107	ESP
Downloader	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Dropper 610.2–140, 144	EXCEPTION_REGISTRATION 610.5–99 Exceptions 610.5–29 Executable File 610.2–5 Execute Flag 610.4–48
Dumping	Execute Until Return 610.4–94, 98 Execution Flow Concealment 610.5–142 Execution Monitoring 610.1–53
Debugging Without 610.4–45-46, 54 Issues 610.4–26 Lessons Learned 610.4–42 Dword 610.2–28	Exfiltration
Dynamic Code Analysis 610.1–82 Shellcode 610.4–87 Dynamically Allocated Memory 610.2–33	Kit
DynamicBase 610.4−19-20, 23 610.5−5, 73, 120 DynamicInvoke 610.4−115	Exports
Dyre	${f F}$
${f E}$	
	False Positive
E[ABCD]X	Fastcall
Set To Zero	File Reputation
EBP610.2–68, 70	File System
EDI	Fileless Software
Effective Address (EA)	FileScan.io
EFLAGS	Fill With NOP's
EIP	Filter
OEP	610.5–164
Embedded Image	Flags
Embedded Javascript	FLG_HEAP_*
Embedded Links	Folder Sharing
Embedded Objects	Follow Dword in Disassembler
Embedded Program 610.3-4 Emulation 610.1-82-84	Follow In Disassembler
610.1–82-84 	Follow In Dump
Limitation	Follow In Memory Map

010 F 00 F0 100	II 1 II 1
	Hash Values
Follow TCP Stream	HashSets
For Loop	Header File
FOSS	HKCU Software
Frame Pointer	Classes
FS (segment register)	HKCU Software Classes66-67
$\dots \dots $	HKEY_CURRENT_USER610.2–36
Confusion	hModule
FS:[0]	Honeypot
FSG	Hook
FUN	Information
Function Call Graph	Hot Patching
	~
Function Call Tree	HTA
Function Graph	HTML Applications *
Function Size	HTML Components
Functions	HTTP Headers Spoofing610.3–19
Basic Components	HTTPS Emulator
Calling Conventions610.2–72-75, 85, 92, 149	Hybrid Analysis
Control Transfers	Hyper-V
Enter	HypeVPN
Examples	
Leave	-
	I
\mathbf{G}	IAT
	$\dots \dots $
GAR 🖺	$\dots \dots $
GDT	Absent DLL
$\dots \dots $	AutoSearch
General-Purpose Registers \rightarrow Registers	
Generation Number	Fix
Get EIP as OEP	
610.5–111	ICMP
Get Imports	IDA
Get RIP as OEP	IDS
GetEIP (pattern)	$IEX \rightarrow Invoke-Expression$
	If-Else
GetTypes	ImageBase
Global Variables	Immediate (Addressing)
GNU Compiler	Immunity Debugger
GPR 🖺	Import Table
Graph View	Index
Group	Indicators
Group Policy	Indirect Addressing
GS (segment register)610.5–99, 127-128	Indirect Object
Confusion	Indirection
GS:[0]	Infection Marker
GUI Interactions	Inlining
Gzip	InMemory (property)
•	Input Event Blocking
	Instructions
\mathbf{H}	Components
4.4	Equivalents
Hard-Coded IP Address	Types
	Branch
Hardware Breakpoint → Breakpoint	
Hardware Characteristics	INT3 (opcode)
Hardware Components	Intel Syntax (Instruction)
Hardware-Based Access Dword Breakpoint . 610.5–106	Intellectual Property
HARDWARE_DEVICEMAP610.5–88	Intermediate Bytecode

Intermodular Calls	$Lab \rightarrow Malware Analysis \dots$
	Language Code
Internal IP Addressing Scheme	Lateral Movement
Internet Access	Launch (keyword)
Internet Explorer	LEA
Intezer Analyze	LEAVE
Invoke ~	Leetspeak
Invoke-Expression 2	Libraries
$\dots \dots $	License ID
InvokeMember \sim	LIFO
IOC610.1–11, 17, 77	Linked List
$\dots \dots 610.2 - 20, 62$	Linker
$\dots \dots $	Listener
Examples	Listing
Network	Loader
IP Investigation	Local Variables
IRC	Display
ISO <u>6</u> 39-1	Example
ISO 🖺	Loading
ISO/IEC 32000610.3-4	Location (header)
Isolation Measures	Location.href
	LOLBAS
${f J}$	LOLBIN
J	Long Jump
Javascript	Loop
Beautify	Components
Deobfuscation	Example
	Types
Interpreters	LOOP(cc)
Object Definitions	Looping
JB/JC	lpProcName
Equivalence	ipi tocivame
Jcc-Formatted Instructions	
JGE610.2–114	${f M}$
$JIT \rightarrow Compiler \dots$	
JMP610.4–31-33, 132	MAC Address
JNL/JNG	Machine Code
JPEG	Macros
Jump Concealed	Cached Version
Jump Types	Debugging
	Emulation
T/	Extraction
\mathbf{K}	Infection Scenario
WID 1 D 11 1	Lessons Learned
KdDebuggerEnabled	Major Change
Kernel-Mode Debugger	Prevention
Kernel-Mode Malware	
Kernel32.dll	Support 610.3–78 MAEC 610.1–11
	Magic Number
Key Binding	Malicious DLL
Key Differences 32/64-bit	Malicious Pattern 610.5–21, 39, 49-50, 52, 59, 153
Keyboard Event Blocking	Malicious Scripts
Known Patterns	Malware 32/64-bits
KUSER_SHARED_DATA	Malware Analysis
	Capabilities
-	Experimentation
${f L}$	Initial Look \rightarrow PEStudio (see Categories)

Inputs/Outputs	Lessons Learned	610.4–132
Lab610.1–25-26	PowerShell	610.4-115
Detection	Net.WebClient	610.3–108
Report	NIST SP 800-83	610.1-
Stages	Noise Filtering	610.1–62
Malware Data Repositories	NOP	
Malware Hash Registry		
Malware Self-Defense Techniques	Sled	
Malware Bazaar	NoProfile	
Marshal	NSA	
	Nt-Prefixed APIs	
MBC	Ntdll.dll	
MEM_WRITE	NTFS	
Memory Access Violation	NtGlobalFlag	010.5–1
Memory Address		
Memory Breakpoint	O	
Singleshoot	O	
Memory Map	016 + 15 - 110 1	C10 4 111 116
Memory Region Extract610.4–93-101, 108, 126, 131	Obfuscated Decompiled Code	
610.5 - 36, 57	Obfuscation	
Memory Segment Attributes	Layers	
Metadata	Object Code	
$\dots \dots $	Object Number	
MetaDefender	Object Stream	
Microsoft Compiler	ObjStm (keyword)	
Microsoft Excel	ObsidianGUI	
Microsoft Word	OEP	$\dots 610.4-22, 36-37$
Misdirection Technique		610.5–105-111, 150
Lessons Learned	EIP (32-bit)	610.4–3
Missing Applications	Preliminary Actions	610.5–145
MITRE ATT&CK610.1–87	RIP (64-bit)	610.4–3
	OLE Control	
MOTW	OLE1	610.3–81
Mouse Cursor	OLE2	
Mouse Event Blocking	OllyDbg	, ,
Mouse Hooking	OOXML	
MOV	Examination (Without Deco	
Equivalent	Open File Handle Scanning	
Optimization	Open Threat Exchange	
Substraction	OpenAction (keyword)	
Suspicious	OpenVPN	
MOV DWORD PTR	Operands	
MS Office Documents	Addressing Modes	
	Optimization	
Formats	Optional Header	
Analysis	=	
MSI	Ordinal Origin Concealment	
Mutex	-	
	OriginalFilename	
MZ610.2–12	OSINT	
	Outgoing Calls	
${f N}$	Overflow Flag Overlay	
NanoLocker		
NAT	\mathbf{P}	
Native APIs	-	
Native Code	P-code	610.3–40. 47
.NET Framework	P2P	
Debugging	Package Object Server	

D 1:	D 11 11 1 2 210 F F0 F0 F0
Packing	Process Hollowing
$\dots \dots $	API Calls
	Process Replacement
Bypass	PROCESS_INFORMATION
Byte Values	ProcessInformationClass
Combined With Code Injection 610.5–59	Program Tree
Manipulations	Prologue
Options	Example
Symptoms	Propagate Ext Params \rightarrow External Parameters
Verification	Protocol Emulator
PAGE_EXECUTE_READ	Public Cloud
PAGE_EXECUTE_READWRITE 610.4–75, 147	PUSH
	Substraction
Parameter	PXE Booting
64-bit	TAL Booking
Example	
Information	\mathbf{O}
	₩
Patching	QEMU
Payload	Quttera
PCAP ■	
PDF	Qword
Analysis	
Keywords	${f R}$
Lessons Learned	$1\mathbf{t}$
Objects	DAD (10.0.00.00
Dump	RAR
Extraction	Raw Alignment
Reference	Raw Size
Unique Identifier610.3–6	RDTSC
Trailer	Readable Strings
Triage	Rebasing
Version 1.5	Recipe
PE Header	
610.5-98	Redirect
PEB	Reference
$\dots \dots $	Example
Pending Rename	Referenced Strings
Persistence	Reflective Code Loading610.4–114-116
$\dots \dots $	Register Machine
Fileless	Register-Based CPU
Phishing	Registers
Webites	32-bit, 16-bit, 8-bit
PIC	64-bit
PMF 16	Edit
Pointer	General-Purpose
POP	Segment
	610.5–127
Popup	Special-Use
Port Unreachable	Registry Content Extraction
	Registry Key
Post-Infection	
PowerShell	Obfuscated Software
Debugging	Registry Redirection
ISE	
NET	Regsrv32 *
Pre-OEP Actions	Relocation
Predictable Memory Locations610.4–18	REM
Dropoga Activities 610.1.69	
Process Activities	Remainder
Process Attributes	Remainder 610.3−88-89 REP ■ 610.2−133
	Remainder

Resource Section	Frame-Based
Resource Starvation	Handler
Resume All Threads	Structure
RET	Table-Based
Equivalent	Selector
Return Path	FS
Return Register	Self
Reverse Shell	
ReZer0v4	Self-Defending Capabilities 610.1–31 Countermeasures 610.1–32
RFC 1918	Examples
	v e
	Self-Referencing Code
OEP	SEO
RIP-Relative Addressing	Serialization
Risky Capabilities	SetBPX
Rock Debugger	
ROL/ROR	DLL Name
	Settings.xml
Root Object	SFP
Rootkits	Shellcode
Kernel-Mode	Address
User-Mode	API Calls
ROT	Attach
RTF	Debugging
Lessons Learned	Extraction
Threat	Dynamic Code Analysis
Rtl-Prefixed APIs	Emulation
Run to User Code	
	Execution
Run Until Selection	Preliminary
Rundll32.exe	Presence
RunPE	ShellExecute 2
Runtime Environment	Shodan
	Sign Flag
\mathbf{S}	Signatures
S	
Sandbox	Single Stepping
Satana (ransomware)	
SAZ 🗎	SMS
Scale	Snapshot
SCASB	
Schtasks (command)	Software
SCISI Disk Identifier	Social Engineering
Scope	Software Breakpoint \rightarrow Breakpoint
Scrambling	Software Hive
Scripting	Source Code
Sections	Source IP
	Special-Use Registers \rightarrow Registers
	Spyware
Security Tools Presence	SRE
Security Trails	SRP Streams
Segment Registers \rightarrow Registers	SS
Segment Registers \rightarrow Registers	SSH Daemon
	SSL Keys
32/64-bit	Stack
Chain	Breakpoint
First Record	

Pointer	Static Analysis
Segment	TLS Keys
Strings	Toolkit Detection
Stack Cleanup	Lessons Learned
Stack Reuse	TOR
Start (command)	Triage
STARTUPINFOW	Trial and Error
Static Analysis	TrickBot
	Tricky Jump
Findings610.1–50	Trusted Certificate
Tools	Trusted Document
Static Code Analysis	Trusted Location
610.2 – 6	Trusted Publisher
Code Injection	Try-except
Static Variables	
Stdcall	TT
Stopping Condition	\mathbf{U}
Storage	
Stream	UAC
Bytes	Unconditional Jump
Strings	Unexpected DLL
	Unicode String
References	Unique Identifier
Strlen	Unpacking
Structured Storage	Check
Suspended State	Code Extraction
Suspicious Keywords	Code Location
Switch Statement	Debugging
Symbol References	Dump
Symbol Table	Manually
Symbol Tree	Memory Allocation
Symbolic Constants	Techniques
Sysinternals	Upatre
SYSTEM	UPX610.4–8, 12
System Anomalies	Unpacking
System Breakpoint	End
System Calls	URI (keyword)
Syswow64	URL Pattern
	UrlScan.io
${f T}$	User Code
±	User Space Code
Tampared File	User-Agent
Task Manager	User-Interaction Events
Terminated Unicode	UTF-16
TEST610.2–41, 43, 52	
ThemeFontLang	
Themida	
Thiscall	T 7
Threat Intelligence	\mathbf{V}
ThreatFox	
TIB	Valak
610.5–99	$VBA \rightarrow Macros$
Tight Strings	Vectored Exception Handling
Timba	Verb
Timing Execution	Version Number
Tiny PE	Video Controller
TEO Candack Punctions	virtual Alighinent010.5–103

Virtual Network	WireGuard
Custom	WM_LBUTTON*
Host-Only	WM_MOUSEMOVE
Virtual Size	WMI610.4–60
VirtualAlloc	$\dots \dots $
Argument 0x40	Word
EAX	Workbook_Open
VirtualBox	Worm610.1–126
VirtualBox Guest Additions	WriteAllBytes ≥
Virtualization	Wscript.Echo
Artifacts	Wscript.Shell
Detection	
Software	Wsprintf
VirusTotal	
VM Escape	
Vmcheck.dll	${f X}$
VMWare	
OUI	x86 Architecture
Tools	XML Source Code
$\dots \dots $	XObject (keyword)
VPN	XOR610.1–104
Vulnerability	610.3-72, 74
	610.5 - 16-19
${f W}$	Xref
	- -
Wesicmp	${f Y}$
Web Debugger	
Website Investigation	Yara
WH_MOUSE_LL	
While Loop	
Wide Character	7
Winbindex	${f Z}$
WinDbgFrameClass	7 71
Windows Internals	Zero Flag
Windows Registry	Zeta Debugger
Windows Vista/Server 2008	ZIP 1
WindowStyle	Zone.Identifier
Wine	Zw-Prefixed APIs