

FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

Topics

Incident Response Steps 1-23-24

1. Preparation 1-24
2. Identification 1-24
3. Containment 1-24
4. Eradication 1-24
5. Recovery 1-24
6. Lessons Learned 1-24

Service Name

- DcomLaunch 1-76
- LocalServiceAndNoImpersonation 1-76
- LocalServiceNetworkRestricted 1-76
- LocalServiceNoNetwork 1-76
- netsvcs 1-76
- NetworkService 1-76
- RPCSS 1-76

Windows Process

- csrss.exe 1-77
- explorer.exe 1-78
- lsaiso.exe 1-78
- LSASS.exe 1-79
- ntoskrnl.exe 1-80
- RuntimeBroker.exe 1-80
- services.exe 1-77
- smss.exe 1-77
- svchost.exe 1-76
- System 1-76
- taskhostw.exe 1-79
- userinit.exe 1-79
- wininit.exe 1-78, 1-80
- winlogon.exe 1-79, 80

wmic

- group 1-137
- netuse 1-137
- process 1-137
- qfe 1-137
- startup 1-137
- useraccount 1-137

#

- \$STANDARD_INFORMATION ... 4-38, 4-154, 4-156
- \$FILE_NAME 4-154, 4-157
- \$DATA 4-168
- \$logfile Operation Codes 4-186
- \$UsnJrnl 4-187
 - Parsing 4-190
 - Reason Code 4-189

A

Account

- Built-in accounts 2-83

- Enumeration 2-100
- Logon Event 2-95
- Tracking Administrator 2-85
- Tracking Creation 2-87
- Tracking Usage 2-73
- Tracking Usage (RDP) 2-89
- Usage (RDP) 2-91
- AceHash 2-10, 2-24, 2-28
- ACMRU 4-17
- Active Defense 1-28
- Admin Shares 2-134
 - Destination Artifacts 2-134
 - Source Artifacts 2-133
- ADMIN\$ W-2.4-7
- Advanced NTFS Journal Parser (ANJP) 4-192
- Alternate Data Stream 1-67, 4-171
- Amcache.hve 2-55
 - Parsing 2-57
- AmcacheParser.exe 2-58
- AMSI → Anti-Malware Scanning Interface 2-72
- Analysis Scenario 2-72
- AnalyzeMFT 4-157, 4-163
- ANJP → Advanced NTFS Journal Parser 4-192
- ANONYMOUS LOGON 2-83
- Anti-Forensics 1-67, 4-119
- Anti-Malware Script Obfuscation 2-170
- Anti-Virus
 - Bypass 1-67
 - Logs 2-156
- AppCompatCache → Application Compatibility
 - Cache 2-54
- AppCompatCacheParser.exe 2-54
- Application Compatibility Cache 4-12, 2-52
- Application Deployment Software 2-148
- APT19 3-85
- Archives (embedded timestamp) 4-39
- Armoring 1-67
- Artifacts 4-9
 - Account Usage 4-23
 - Browser Usage 4-24
 - Deleted file or File Knowledge 4-17
 - File Opening/Creation 4-14
 - Network 3-123
 - Network Shares 2-133
 - OS Unusual 1-74
 - Physical Location 4-19
 - PowerShell 2-145
 - Program Execution 4-12
 - PsExec 2-135-136
 - Remote Desktop Protocol (RDP) 2-130-132
 - Remote Service 2-141
 - Scheduled Tasks 2-142
 - USB or Drive Usage 4-20
 - WMI 2-143
- at.exe 1-75, 1-101, 2-139
- ATT&CK 1-47, 1-52
 - Collection 1-51
 - Command and Control 1-51



FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

Credential Access	1–50
Defense Evasion	1–50
Discovery	1–50
Execution	1–50
Exfiltration	1–51
Lateral Movement	1–50
Persistence	1–50
Privilege Escalation	1–50
AutoRun	1–67, 1–97
AutoRunsc.exe	1–100, 101, 1–104, 105
AutoStart	1–97

B

BadRabbit	1–139
base64	W-1.4–9
Beacons	1–67
Behavior Detection Anomaly	1–81
BelgaSoft	3–39
Binary Padding	1–67
blks	2–42
Bloodhound	2–100
Browser	
Cache	4–24
Cookies	4–24
Flash & Supercookies	4–25
History	4–24
Search Terms	4–20
Session Restore	4–25
Brute-Force Password Attack	2–81
bstring.exe	3–193
BulkExtractor	3–43
bytehist	1–82

C

Cached Credentials	2–24
Defense	2–27
cachedump	2–24
Cain	2–28
Capability	1–54
Certification Authority	1–69
Chat threads	3–37
CIM → Common Information Model	
cmd.exe	1–75
Code Injection	1–74, 3–134
Reflective	3–149
Review	3–159
Code Signing	1–67, 1–69
Malware	1–71
Command Line Tracking	2–158
Common Information Model (CIM)	1–135
Compromise	1–39, 1–62, 1–65
Conficker	2–121
Containment	1–27
CozyDuke	3–101
CreateInstance	1–104

CreateRemoteThread	3–134, 135
credump	2–10, 2–24, 2–28
Credential	
Attacks (evolution)	2–8
Availability	2–12
Harvesting	2–6
Credential Guard	2–9
CredSSP	2–9, 1–119
CRITS	1–57
Cyber Threat Intelligence	1–33, 1–53
CyberChef	2–171

D

DarkComet	3–92
Data Collection	1–40
Data Encryption	4–120
Data Exfiltration	1–40
dc3dd	3–18
Deep Panda	3–85
Defense Manipulation	1–67
densityscout	1–82, 1–84
Device Guard	2–9
Digital Forensics & IR	1–32
Direct Kernel Object Manipulation (DKOM)	3–168
Directory Table Base (DTB)	3–50
DKOM → Direct Kernel Object Manipulation	
DLL Hijacking	
DLL Search Order Hijacking	1–102
DLL Side-Loading	1–102
Phantom DLL Hijacking	1–102
DLL Injection	1–67, 3–136
DLL Lists	3–140
Domain Protected User	2–9
Download.sqlite	4–11
Driver Acquisition	3–207
Driver Letter	4–21
DTB → Directory Table Base	
DumpIt	3–39
Dun and Bradstreet Rating	1–69
DWM	2–83

E

E-mail Attachments	4–11
ECTXtract	2–183
EDR → Endpoint Detection and Response	
Endpoint Detection and Response (EDR)	3–29
Challenge	3–31
Importance	3–30
Memory	3–32
Enter-PSSession	1–117, 1–119
EPROCESS	3–50, 3–68, 3–168
Eradication Without Identification	1–25
Establish Foothold	1–39
Evasion	1–67
Event Log Explorer	W-2.3–1, 2–103, 2–183

FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

Event Viewer	2-74
EventLog	2-64
Application	2-67
Clearing	2-123
Clearing (Selective)	2-126
Deletion	4-121
EventID	2-191
Extraction	2-183
Forwarding	W-3.4-11
PowerShell	2-185
Security	2-68
Security Event	2-69
Service	2-67
Summary	2-182
Tampering	4-121
Types	2-66
eventlogedit	2-126
eventvwr.exe	2-74
EVT	2-64
evtwalk	2-183
EVTX	2-64
evtx-view	2-183
Executive Process Block	3-50

F

F-Response	3-7
Acquire Memory	3-18
Agent Service	3-15
Attach Remote Drive	3-17
Enterprise	3-8
GPO	3-14
MSI	3-12
SIFT	3-39
Fast forensics	4-80
fgdump	2-10
File	
Delete	4-119
Download	4-11
Handle	3-111
Wiping	4-119
File System	
Journaling	4-182-185
Filename	
Hijacking	1-67
Filename	4-176
filter_windows	4-81
Firmware	1-67
fls	4-30, 4-48
foremost	2-42
Forensics (Remote)	3-4
Format-Wide	1-115
fr_ace	
add	3-16
mount	3-17
query	3-16
Frequent Compilation	1-67
FU Rootkit	3-170

fxsst.dll	1-103
-----------	-------

G

Get-Alias	1-115
Get-ChildItem	1-115
Get-LsaSecret.ps1	2-29
Get-Process	1-115
Get-Service	1-115
Get-SvcFail.ps1	1-100
Get-WinEvent	2-185
Get-WmiObject	1-104, 1-140
GlassRAT	1-100
Golden Ticket	2-31, 2-34
gpedit.msc	2-68
grep	3-194
Group Enumeration	2-100
Group Managed Service Account	2-9
GRR	3-7, 3-210
gsecdump	2-10, 2-13, 2-28

H

Handle	3-111
Hashes	2-10
Defense	2-17
Hibernation Files	3-39, 3-43
Windows 10	3-47
Hibernation Recon	3-43
hibr2bin	3-43
Hiding in Plain Sight	1-66
Historical Data	4-124
Hunting	1-29, 1-31-34
Automated to Manual	1-64
Steps (color)	1-62

I

I/O Request Packet (IRP)	3-161
IAT → Import Address Table	
Identification	1-31-34
IDT → Interrupt Descriptor Table	
Impact	1-53
Import Address Table (IAT)	3-161
Incident Response	1-23-24
Intelligence-Driven	1-39
Process	1-38
Remote	3-4
Team	1-32
Incognito	2-19, 1-119
Incognito mode	3-37
Index.dat	4-12, 4-17
Indicator of Compromise	1-56
Atomic	1-41
Behavioral	1-42
Computed	1-42
IOC Editor	1-57
Language	1-56
InInitializationOrderModule List	3-140

FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

Initial Compromise	1–39
Inline API	3–161
InLoadOrderModule List	3–140
InMemoryOrderModule List	3–140
Intelligence Development	1–27
Intelligence-Driven Incident Response	1–39
Intent	1–54
Internet Evidence Finder	3–43
Interrupt Descriptor Table (IDT)	3–161
Invoke-Command	1–117
IOC Analysis	3–212
IPRIP → RIP Listener Service	
IRP→ I/O Request Packet	
istat	4–162, 4–173–175

J

jobparser.py	2–115
jp	4–191
Jump List	4–13

K

Kansa	1–120–129
3 rd party tools	1–126
Configuration	1–124
Get-AutoRunsc.ps1	1–126
Get-CertStore.ps1	1–126
Get-FlsBodyfile.ps1	1–126
Get-Handle.ps1	1–126
Get-LogparserStack.ps1	1–127
Get-ProcDump.ps1	1–126
Get-RekalPslist.ps1	1–126
Remote	W-1.5–6
Kansa PowerShell Framework	1–104
KAPE	3–22
Collection	3–25
Options	3–23
KB2871997	2–8
KDBG → Kernel Debugger Datablock	
KdCopyDataBlock	3–59
Kerberoasting	2–31, 2–34
Kerberos	2–96, 1–119
Attacks	2–34
Attacks (Defense)	2–38
Kernel Debugger Datablock (KDBG)	3–50
Identification	3–59
Kernel Patch Protection	3–164
Kernel Processor Control Region (KPCR)	3–50
Kill Chain	1–41, 1–43
Actions on Objectives	1–44
Delivery	1–43
Exploitation	1–43
Persistence	1–44
Reconnaissance	1–43
kpartx	3–17
kpartx	W-3.1–16

KPCR → Kernel Processor Control Region	
--	--

L


LAPS → Local Administrator Password Solution	
Last visited MRU	4–12, 4–15, 4–17
Lateral Movement	1–40
Overview	2–5
Scheduled Tasks	2–112
Shares	2–106
Tracking	2–105
Least frequency of occurrence analysis	1–127
LiveSSP	2–10
LoadLibrary	3–134, 3–149
Local Account	2–95
Abuse	2–98
Local Admin (Limitations)	2–6–7
Local Administrator Password Solution (LAPS) ..	2–17
LOCAL SERVICE	2–83
Location: Internet Explorer	4–17
log2timeline	4–30, 4–60, 4–69
Arguments	4–70
Device examples	4–73
Parser lists	4–85
VSS	4–131
Logon	
Error Code	2–96
Event	2–95
Last	4–23
Session Identification	2–79
Success/Failure	4–23
Type	2–12, 4–23
Type Codes	2–77
LSA Secret	2–28
Defense	2–30
LSASS	2–10
Security EventLog	2–68

M

MACB	4–35–36
mactime	4–68
MagnetForensics	3–39
Maintain presence	1–39
Malware	
Code Signing	1–71
Dormant	1–62, 1–67
Evasion techniques	1–67
Execution	2–155
Fileless	4–120
Identification	1–81
Locations	1–66
Names	1–66
Paradox	1–61
Malware Persistence	1–96
AutoStart Locations	1–97
BIOS Flashing	1–96



FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

DLL Hijacking	1-102
Local Group Policy	1-96
MS Office Add-in	1-96
Scheduled Tasks	1-101
Service Creation/Replacement	1-99
Service Failure Recovery	1-100
WMI Event Consumers	1-104
Managed Service Account	2-8
Master File Table (MFT)	4-147
File Record Header	4-152
Outlier	4-166
Sequential Entries	4-151
Structure	4-148
Memory	
Acquisition	3-39
Analysis	3-49
Analysis 	3-50
Compression	3-45
Dump	3-39
Finding the first hit	3-66
Forensics	3-35
Advantages	3-37
Motivations	3-36
Windows 10	3-45
Offset	3-79
Page Execute ReadWrite	3-150
Virtual Machine	3-41
Metadata Layer	4-150
MetaSploit	2-10, 2-19, 2-24, 2-28, 2-39
MFT → Master File Table	
MFTECmd	4-30, 4-46, 4-157
Microsoft Online Accounts	2-79
Mimikatz	2-9, 10, 2-15, 2-20, 2-28, 2-32, 1-119
EventLog Clearing	2-126
MOF	1-141
MOF → WMI/MOF Files	
mofcomp.exe	1-104, 2-144, 1-150
mount	3-17
MountPoints2	4-43, 1-75, 2-133
MsCash2	2-24
mstsc.exe	2-130
Mutant	3-113
Mutex	3-113
MZ	3-152-154

N

net.exe	1-75, 2-133
net1.exe	2-133
netstat.exe	1-115
NetTraveler	1-103
Network Artifacts	3-123
Review	3-129
Network History	4-20
NETWORK SERVICE	2-83
Network Shares	
Admin	2-133
Tracking	2-106

New-PSDrive	1-115
Nishang	2-29
NotPetya	1-139
NTDS.DIT	2-39
ntdsdump	2-39
NTDSXtract	2-39
NTFS	4-140
Alternate Data Stream	4-171
Features	4-142
File Deletion	4-195
File Write	4-194
Index slack space	4-180
System Files	4-144
Timestamp	4-36
NTLM	2-10
ntoskrnl.exe	3-161


O

Office Recent Files	4-15
Open/Save MRU	4-11, 4-14
OpenIOC	1-57
Opportunity	1-54
Order of Volatility	1-124
Out-GridView	1-115
Overpass the Hash	2-34

P

Packing	1-67
Page Directory Offset (PDB)	3-78
Page File	3-39
Pass-the-hash attacks	2-10
Mitigations	2-9
Pass-the-ticket	2-31, 2-34
Passware	3-43
Password	
Last change	4-23
PatchGuard	3-164
PDB → Page Directory Offset	
PEB → Process Environment Block	
PECmd.exe	2-47
Perimeter	3-30
pescan	1-82, 1-87
Phishing Attack	4-98-100
pinfo	4-89
pinfo	4-60
Pivot	4-26-27
Places.sqlite	4-12
Plaso	4-60
Linux/Android/Mac Parsers	4-66
mactime	4-68
Registry Parsers	4-63
Web History Parsers	4-65
Windows Parsers	4-61
Plug-and-Play Event Log	4-22
PlugX	1-103

FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

Poison Ivy	1-103
Ports	W-3.4-4
powercfg.exe	3-43
PowerShell	1-114
Authentication	1-119
Basics	1-115
Command History	2-176
Enabling logs	2-166
Log hunting	2-168
Logs	2-164
Malicious (logs)	2-167
Obfuscation	2-170
Processes	3-87
Remote Artifacts	2-147
Remoting	1-117
Source Artifacts	2-145
Transcript Logs	2-173-174
powershell.exe	1-75, 2-146
PowerView	2-100
Prefetch	4-13, 4-15, 2-42
First/Last Execution	2-45
From memory	4-137
prefetchparser	4-137
Privileged Local Account Abuse	2-98
Proactive Response	1-29
ProcDump	1-75
Process	
Acquisition	3-207
Analysis	3-70
Anomaly 	1-76
Environment Block (PEB)	3-50
Hollowing	3-135
Injection	1-67
Objects	3-94, 3-121
Process tree	3-33
Rogue	1-73
Terminated	3-80
Tracking	2-158, 2-160
Command Line	2-162
Profiling Account Usage	2-72
Protected Processes	2-9
PsActiveProcessHead	3-50
PsExec	2-10, 1-75, 2-121, 2-136
Destination Artifacts	2-136
Source Artifacts	2-135
pservices.exe	2-137
PsLoggedOn	1-75
PsLogList	2-183
psort	4-93
psort	4-60
PspCid	3-170
PSReadline	2-176
PWDumpX	2-24
PWDumpX	2-10

Q

qc	1-74
----------	------

qprivs	1-74
qtriggerinfo	1-74
queryex	1-74

R

rar.exe	1-75
RasAuto	1-100
rdpclip.exe	2-132
Reactive Response	1-29, 1-31-34
Recent Files	4-14
RecentFileCache.bcf	2-55
Reconnaissance Tracking	2-100
Recycle Bin	4-18
RedLine	1-57
reg.exe	1-75, 2-139
Registry	
Deletion	4-120
Hiding Data	4-120
RegRipper	1-98, 2-130
Rekall	1-130, 3-210
Remediation	1-35
Requirements	1-36
Steps	1-37
Remote Credential Guard	2-9
Remote Desktop Protocol (RDP)	
Logging	2-93
Source Artifacts	2-130
Usage	4-24
Remote Service Artifacts	2-141
Restricted Admin	2-9
RID 500	2-7
RIP Listener Service (IPRIP)	1-99
rip.pl	W-3.1-18
Rogue Process Analysis	3-94
Rootkit	1-67, 1-74, 1-130
Detection	3-180
Hooking	3-161
Run MRU	4-14

S

SACL → System Access Control List	
Sakula	1-103
SAM Registry Hive	2-10
sc.exe	1-74, 75, 1-100, 2-139
Scheduled Tasks	
Artifacts	2-142
Artifacts (v1.2)	2-115
Logs	2-114
Tracking	2-112
schtasks.exe	1-75, 1-101, 2-139
SCM → Service Control Manager	
scrcons.exe	3-87, 2-144, 2-180
Scripting	1-112
Bash	1-112
PowerShell	1-112
WMI	1-112
Search (Win7-10)	4-19



FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

Search (XP)	4-17
Security Identifier (SID)	3-103, 3-107
Security Tokens → Tokens	
SeDebug	2-85
SeImpersonate	2-19
Select-String	1-115
Service Control Manager	2-119
Service Events	4-13
Service Hijacking	1-67
Service Replacement	1-67
Services	
Suspicious	2-119
Unknown	1-74
Set-WmiInstance	1-104
SeTakeOwnership	2-85
SetWindowsHookEx	3-135
Shell bags	4-15
ShimCache	2-51, 4-138
shimcachemem	4-138
Shortcut (LNK) files	4-15, 4-22
SID → Security Identifier	
sigcheck	1-82, 1-89
Silver Ticket	2-34
Skeleton Key	2-34
Skype	4-11
SMB	
File copy	4-43
SMBShell	2-10
SSDT → System Service Descriptor Table	
Stacking	1-127
Statistics (incident)	1-13
STIX	1-56
Strings	3-193
StuxNet	1-141, 3-147
Super Timeline	4-53
Creation steps	4-96
Filter	4-78
Output	4-105
Targeted	4-75
Suspicious Services	2-119
Swap File	3-39
SxS → DLL Hijacking/DLL Side-Loading	
SysMon	2-188
SYSTEM	2-83
System Access Control List	2-69
System Service Descriptor Table (SSDT)	3-161
SYSTEM32	W-2.1-9
SYSWOW64	W-2.1-9

T

Target Collection	3-25
Task (Start time)	W-2.4-22
TDL3/TDSS	3-144
TeamViewer	2-131
Temporal proximity	4-26
Threat	1-53
Thumbnails	4-18

Thumbs.db	4-19
Tickets	2-31
Defense	2-36
Timeline	
Benefits	4-5
Comparison	4-30
Context	4-29
Filesystem	4-44
Process Analysis	4-32
Super Timeline	4-53
Utopia and Reality	4-5-6
Timestamp	4-35-36
Lateral Movement Analysis	4-43
Timestamp	1-67, 4-119
Detection	4-162
Evidence	2-51
Timezone	4-19
Tokens	2-19
Defense	2-22
Tracking	
Account Creation	2-87
Account Usage	2-73
Account Usage (RDP)	2-89
Command Line	2-158-162
Lateral Movement	2-105
Network Shares	2-106
Process	2-158-160
Reconnaissance	2-100
Scheduled Tasks	2-112
Triage	4-80
Filesystem Timeline	4-35
Trusted Code	1-69
TsPkg	2-9, 10
tstheme.exe	2-132

U

UAC → User Access Control	
UMFD	2-83
USB First/Last Times	4-21
USB Key Identification	4-20
User Access Control (UAC)	2-8
UserAssist	4-14

V

VAD→ Virtual Address Descriptor	
Virtual Address Descriptor (VAD)	3-50
Virtual Secure Mode	3-45
VirtualAllocEx	3-135
Visibility	3-30
VNC	2-131
Volatility	3-43, 3-53
apihooks	3-163, 3-177
baseline	3-91
cmdline	3-99
cmdscan	3-184, 3-197-198
connections	3-125

FOR508 – Advanced Incident Response, Threat Hunting, & Digital Forensics

connscan	3-125
consoles	3-184, 3-197-198
devicetree	3-172
dlldump	3-184, 185
dlllist	3-99, 100
driverbl	3-91, 3-175
driverirp	3-163
dumpfiles	3-184, 3-201
filescan	3-61, 3-184, 3-204
getsids	3-99, 3-103
handles	3-99, 3-110
hivelist	3-61
hollowfind	3-139
idt	3-163
imagecopy	3-43, 3-64
imageinfo	3-58
kdbgscan	3-59, 3-62
ldrmodules	3-139, 140
malfind	3-139, 3-151
malprocfind	3-73, 3-89
memdump	3-184, 3-192
moddump	3-184, 3-187
modscan	3-163, 3-172
modules	3-172
mutantscan	3-99
netscan	3-125, 126
openioc_scan	3-212
procdump	3-184, 3-191
processbl	3-73, 3-91
pslist	3-59, 3-61, 3-73, 74
psscan	3-61, 3-73, 3-78, 3-80
pstree	3-73, 3-82
psxview	3-163, 3-169
servicebl	3-91, 3-99, 3-119
sockets	3-125
sockscan	3-125
ssdt	3-163, 164
svcsan	3-99, 3-115
threadmap	3-139
vaddump	3-192
vainfo	3-201
Help	3-56
Image identification	3-61
Profile	3-60
Usage	3-54
Volume GUID	2-55
Volume Name	4-21
Volume Serial Number	4-22
Volume Shadow Copy	4-124
Examination	4-126
log2timeline	4-131
vshadowinfo	4-127
vshadowmount	4-128
VSM → Virtual Secure Mode	
VSSAdmin	2-39
Vulnerability	1-53
Exploitation	2-150

W

WannaCry	1-139
WBEM → Web-Based Enterprise Management	
WCE	2-10
WDigest	2-9, 10
Web Server Intrusion	4-97
Web-Based Enterprise Management (WBEM) ...	1-135
WebShell	1-67, 3-85
What is Evil?	1-73
What is Normal?	1-73
win32k.sys	3-161
Windows Remote Management	2-115, 2-139
Windows Service	1-99
Windows Time Rules	4-38, 4-160-161
winpmem Driver	3-39, 1-130
winrm.vbs	1-75, 1-117
winrs.exe	2-139
wisp	4-180
WMI	1-112, 1-135
Attacks	1-136
Consumers	1-148
Database	1-146
Destination Artifacts	2-144
Event Consumer Backdoor	1-140
Event Consumers	1-104
Hunting	1-149
Investigation	1-142
Lateral Movement	1-139
Log Hunting	2-180
Logs	2-177
MOF Files	1-150
Persistence	2-177
PowerShell	1-144
Privilege Escalation	1-138
Processes	3-87
PyWMIPersistenceFinder.py	1-147
Source Artifacts	2-143
WBEM AutoRecover Folder	1-152
WBEM AutoRecover Key	1-154
wmic.exe	1-75, 3-87, 1-113, 2-143
wmiprvse.exe	3-87, 2-144
WordWheelQuery	4-19
WriteProcessMemory	3-135
WSMAN	1-117
wsmprovhost.exe	3-87, 2-147

Y

Yara	1-57
------------	------

Z

Zbot	3-178
Zero Configuration	1-67
Zeus	3-178
Zone Identifier	4-172