
Mitre Attack Data Sources

32

Mitre Attack Data Objects

99

Total Techniques and Sub-techniques

552

Total Techniques

185

Total Sub-Techniques

367

Mitre Attack Data Sources

DS

Active Directory

Application Log

Cloud Service

Cloud Storage

Cluster

Command

Container

Drive

Driver

File

Firewall

Firmware

Group

Image

Instance

Kernel

Logon Session

Module

Network Share

Network Traffic

Pod

Process

Scheduled Job

Script

Sensor Health

Service

Snapshot

User Account

Volume

WMI

Web Credential

Windows Registry

Mitre Attack Data Objects

DS

Active Directory: Active Directory Credential Request
Active Directory: Active Directory Object Access
Active Directory: Active Directory Object Creation
Active Directory: Active Directory Object Deletion
Active Directory: Active Directory Object Modification
Application Log: Application Log Content
Cloud Service: Cloud Service Disable
Cloud Service: Cloud Service Enumeration
Cloud Service: Cloud Service Metadata
Cloud Service: Cloud Service Modification
Cloud Storage: Cloud Storage Access
Cloud Storage: Cloud Storage Creation
Cloud Storage: Cloud Storage Deletion
Cloud Storage: Cloud Storage Enumeration
Cloud Storage: Cloud Storage Metadata
Cloud Storage: Cloud Storage Modification
Cluster: Cluster Metadata
Command: Command Execution
Container: Container Creation
Container: Container Enumeration
Container: Container Metadata
Container: Container Start
Drive: Drive Access
Drive: Drive Creation
Drive: Drive Modification
Driver: Driver Load
Driver: Driver Metadata
File: File Access
File: File Content
File: File Creation
File: File Deletion
File: File Metadata
File: File Modification
Firewall: Firewall Disable
Firewall: Firewall Enumeration
Firewall: Firewall Metadata
Firewall: Firewall Rule Modification
Firmware: Firmware Modification
Group: Group Enumeration
Group: Group Metadata
Group: Group Modification
Image: Image Creation
Image: Image Deletion
Image: Image Metadata
Image: Image Modification
Instance: Instance Creation
Instance: Instance Deletion
Instance: Instance Enumeration
Instance: Instance Metadata
Instance: Instance Modification

DS

Instance: Instance Start
Instance: Instance Stop
Kernel: Kernel Module Load
Logon Session: Logon Session Creation
Logon Session: Logon Session Metadata
Module: Module Load
Network Share: Network Share Access
Network Traffic: Network Connection Creation
Network Traffic: Network Traffic Content
Network Traffic: Network Traffic Flow
Pod: Pod Creation
Pod: Pod Enumeration
Pod: Pod Metadata
Pod: Pod Modification
Process: OS API Execution
Process: Process Access
Process: Process Creation
Process: Process Metadata
Process: Process Termination
Scheduled Job: Scheduled Job Creation
Scheduled Job: Scheduled Job Metadata
Scheduled Job: Scheduled Job Modification
Script: Script Execution
Sensor Health: Host Status
Service: Service Creation
Service: Service Metadata
Service: Service Modification
Snapshot: Snapshot Creation
Snapshot: Snapshot Deletion
Snapshot: Snapshot Enumeration
Snapshot: Snapshot Metadata
Snapshot: Snapshot Modification
User Account: User Account Authentication
User Account: User Account Creation
User Account: User Account Deletion
User Account: User Account Metadata
User Account: User Account Modification
Volume: Volume Creation
Volume: Volume Deletion
Volume: Volume Enumeration
Volume: Volume Metadata
Volume: Volume Modification
WMI: WMI Creation
Web Credential: Web Credential Creation
Web Credential: Web Credential Usage
Windows Registry: Windows Registry Key Access
Windows Registry: Windows Registry Key Creation
Windows Registry: Windows Registry Key Deletion
Windows Registry: Windows Registry Key Modification

Number of Techniques and Sub-techniques covered per data source/data object pair

DS	count
Command: Command Execution	243
Process: Process Creation	197
File: File Modification	95
Network Traffic: Network Traffic Content	89
Network Traffic: Network Traffic Flow	84
File: File Creation	82
Process: OS API Execution	76
Network Traffic: Network Connection Creation	58
Windows Registry: Windows Registry Key Modification	56
Application Log: Application Log Content	50
Module: Module Load	49
File: File Access	45
File: File Metadata	32
Logon Session: Logon Session Creation	31
Script: Script Execution	21
User Account: User Account Authentication	20
Process: Process Access	18
Sensor Health: Host Status	15
Windows Registry: Windows Registry Key Creation	15
Service: Service Creation	14
Active Directory: Active Directory Object Modification	13
Service: Service Metadata	11
Driver: Driver Load	10
File: File Deletion	10
Process: Process Metadata	10
Firmware: Firmware Modification	9
Scheduled Job: Scheduled Job Creation	8
Active Directory: Active Directory Credential Request	7
User Account: User Account Metadata	7
Container: Container Creation	6
Drive: Drive Modification	6
File: File Content	6
User Account: User Account Creation	6
User Account: User Account Modification	6
Web Credential: Web Credential Usage	6
Windows Registry: Windows Registry Key Access	6
Drive: Drive Access	5
Instance: Instance Creation	5
Logon Session: Logon Session Metadata	5
Service: Service Modification	5
Active Directory: Active Directory Object Creation	4
Drive: Drive Creation	4
Image: Image Creation	4
Instance: Instance Start	4
Network Share: Network Share Access	4
Windows Registry: Windows Registry Key Deletion	4
Container: Container Start	3
Firewall: Firewall Disable	3
Firewall: Firewall Rule Modification	3

DS	count
Instance: Instance Deletion	3
Instance: Instance Metadata	3
Process: Process Termination	3
Snapshot: Snapshot Creation	3
Web Credential: Web Credential Creation	3
Active Directory: Active Directory Object Access	2
Active Directory: Active Directory Object Deletion	2
Cloud Service: Cloud Service Disable	2
Cloud Service: Cloud Service Enumeration	2
Cloud Service: Cloud Service Modification	2
Cloud Storage: Cloud Storage Metadata	2
Cloud Storage: Cloud Storage Modification	2
Driver: Driver Metadata	2
Firewall: Firewall Enumeration	2
Firewall: Firewall Metadata	2
Group: Group Enumeration	2
Group: Group Metadata	2
Group: Group Modification	2
Image: Image Metadata	2
Instance: Instance Modification	2
Instance: Instance Stop	2
Kernel: Kernel Module Load	2
Scheduled Job: Scheduled Job Metadata	2
Scheduled Job: Scheduled Job Modification	2
Snapshot: Snapshot Deletion	2
Snapshot: Snapshot Modification	2
Volume: Volume Deletion	2
WMI: WMI Creation	2
Cloud Service: Cloud Service Metadata	1
Cloud Storage: Cloud Storage Access	1
Cloud Storage: Cloud Storage Creation	1
Cloud Storage: Cloud Storage Deletion	1
Cloud Storage: Cloud Storage Enumeration	1
Cluster: Cluster Metadata	1
Container: Container Enumeration	1
Container: Container Metadata	1
Image: Image Deletion	1
Image: Image Modification	1
Instance: Instance Enumeration	1
Pod: Pod Creation	1
Pod: Pod Enumeration	1
Pod: Pod Metadata	1
Pod: Pod Modification	1
Snapshot: Snapshot Enumeration	1
Snapshot: Snapshot Metadata	1
User Account: User Account Deletion	1
Volume: Volume Creation	1
Volume: Volume Enumeration	1
Volume: Volume Metadata	1
Volume: Volume Modification	1

Number of Techniques covered per data source/data object pair

DS	count
Command: Command Execution	88
Process: Process Creation	78
Network Traffic: Network Traffic Content	40
Network Traffic: Network Traffic Flow	39
Process: OS API Execution	38
Network Traffic: Network Connection Creation	30
File: File Modification	29
File: File Creation	28
Application Log: Application Log Content	22
File: File Access	21
Windows Registry: Windows Registry Key Modification	19
Module: Module Load	14
File: File Metadata	12
Logon Session: Logon Session Creation	11
Script: Script Execution	11
Active Directory: Active Directory Object Modification	7
User Account: User Account Authentication	7
Windows Registry: Windows Registry Key Creation	7
Process: Process Access	6
Service: Service Metadata	6
Driver: Driver Load	5
File: File Deletion	5
Sensor Health: Host Status	5
Service: Service Creation	5
Container: Container Creation	4
Firmware: Firmware Modification	4
Process: Process Metadata	4
Drive: Drive Access	3
Drive: Drive Creation	3
Drive: Drive Modification	3
Image: Image Creation	3
Instance: Instance Creation	3
Instance: Instance Metadata	3
Logon Session: Logon Session Metadata	3
Network Share: Network Share Access	3
User Account: User Account Metadata	3
User Account: User Account Modification	3
Windows Registry: Windows Registry Key Access	3
Windows Registry: Windows Registry Key Deletion	3
Active Directory: Active Directory Credential Request	2
Active Directory: Active Directory Object Creation	2
Cloud Service: Cloud Service Enumeration	2
Cloud Storage: Cloud Storage Metadata	2
Cloud Storage: Cloud Storage Modification	2
Container: Container Start	2
File: File Content	2
Instance: Instance Deletion	2
Instance: Instance Start	2
Process: Process Termination	2
Snapshot: Snapshot Creation	2

DS	count
Snapshot: Snapshot Deletion	2
Snapshot: Snapshot Modification	2
User Account: User Account Creation	2
Volume: Volume Deletion	2
Web Credential: Web Credential Usage	2
Active Directory: Active Directory Object Access	1
Active Directory: Active Directory Object Deletion	1
Cloud Service: Cloud Service Disable	1
Cloud Service: Cloud Service Metadata	1
Cloud Service: Cloud Service Modification	1
Cloud Storage: Cloud Storage Access	1
Cloud Storage: Cloud Storage Creation	1
Cloud Storage: Cloud Storage Deletion	1
Cloud Storage: Cloud Storage Enumeration	1
Cluster: Cluster Metadata	1
Container: Container Enumeration	1
Container: Container Metadata	1
Driver: Driver Metadata	1
Firewall: Firewall Disable	1
Firewall: Firewall Enumeration	1
Firewall: Firewall Metadata	1
Firewall: Firewall Rule Modification	1
Group: Group Enumeration	1
Group: Group Metadata	1
Group: Group Modification	1
Image: Image Deletion	1
Image: Image Metadata	1
Image: Image Modification	1
Instance: Instance Enumeration	1
Instance: Instance Modification	1
Instance: Instance Stop	1
Kernel: Kernel Module Load	1
Pod: Pod Creation	1
Pod: Pod Enumeration	1
Pod: Pod Metadata	1
Pod: Pod Modification	1
Scheduled Job: Scheduled Job Creation	1
Scheduled Job: Scheduled Job Metadata	1
Scheduled Job: Scheduled Job Modification	1
Service: Service Modification	1
Snapshot: Snapshot Enumeration	1
Snapshot: Snapshot Metadata	1
User Account: User Account Deletion	1
Volume: Volume Creation	1
Volume: Volume Enumeration	1
Volume: Volume Metadata	1
Volume: Volume Modification	1
WMI: WMI Creation	1
Web Credential: Web Credential Creation	1

Number of Sub-Techniques covered per data source/data object pair

DS	count
Command: Command Execution	155
Process: Process Creation	119
File: File Modification	66
File: File Creation	54
Network Traffic: Network Traffic Content	49
Network Traffic: Network Traffic Flow	45
Process: OS API Execution	38
Windows Registry: Windows Registry Key Modification	37
Module: Module Load	35
Application Log: Application Log Content	28
Network Traffic: Network Connection Creation	28
File: File Access	24
File: File Metadata	20
Logon Session: Logon Session Creation	20
User Account: User Account Authentication	13
Process: Process Access	12
Script: Script Execution	10
Sensor Health: Host Status	10
Service: Service Creation	9
Windows Registry: Windows Registry Key Creation	8
Scheduled Job: Scheduled Job Creation	7
Active Directory: Active Directory Object Modification	6
Process: Process Metadata	6
Active Directory: Active Directory Credential Request	5
Driver: Driver Load	5
File: File Deletion	5
Firmware: Firmware Modification	5
Service: Service Metadata	5
File: File Content	4
Service: Service Modification	4
User Account: User Account Creation	4
User Account: User Account Metadata	4
Web Credential: Web Credential Usage	4
Drive: Drive Modification	3
User Account: User Account Modification	3
Windows Registry: Windows Registry Key Access	3
Active Directory: Active Directory Object Creation	2
Container: Container Creation	2
Drive: Drive Access	2
Firewall: Firewall Disable	2
Firewall: Firewall Rule Modification	2
Instance: Instance Creation	2
Instance: Instance Start	2
Logon Session: Logon Session Metadata	2
Web Credential: Web Credential Creation	2
Active Directory: Active Directory Object Access	1
Active Directory: Active Directory Object Deletion	1
Cloud Service: Cloud Service Disable	1
Cloud Service: Cloud Service Modification	1
Container: Container Start	1

DS	count
Drive: Drive Creation	1
Driver: Driver Metadata	1
Firewall: Firewall Enumeration	1
Firewall: Firewall Metadata	1
Group: Group Enumeration	1
Group: Group Metadata	1
Group: Group Modification	1
Image: Image Creation	1
Image: Image Metadata	1
Instance: Instance Deletion	1
Instance: Instance Modification	1
Instance: Instance Stop	1
Kernel: Kernel Module Load	1
Network Share: Network Share Access	1
Process: Process Termination	1
Scheduled Job: Scheduled Job Metadata	1
Scheduled Job: Scheduled Job Modification	1
Snapshot: Snapshot Creation	1
WMI: WMI Creation	1
Windows Registry: Windows Registry Key Deletion	1

Techniques and Sub-Techniques not detectable by Mitre data sources

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Techniques and Sub-Techniques not detectable by Mitre data sources

tactics	technique	ID
Resource Development	Acquire Infrastructure	T1583
Resource Development	Acquire Infrastructure: Botnet	T1583.005
Resource Development	Acquire Infrastructure: DNS Server	T1583.002
Resource Development	Acquire Infrastructure: Domains	T1583.001
Resource Development	Acquire Infrastructure: Server	T1583.004
Resource Development	Acquire Infrastructure: Virtual Private Server	T1583.003
Resource Development	Acquire Infrastructure: Web Services	T1583.006
Resource Development	Compromise Accounts	T1586
Resource Development	Compromise Accounts: Email Accounts	T1586.002
Resource Development	Compromise Accounts: Social Media Accounts	T1586.001
Resource Development	Compromise Infrastructure	T1584
Resource Development	Compromise Infrastructure: Botnet	T1584.005
Resource Development	Compromise Infrastructure: DNS Server	T1584.002
Resource Development	Compromise Infrastructure: Domains	T1584.001
Resource Development	Compromise Infrastructure: Server	T1584.004
Resource Development	Compromise Infrastructure: Virtual Private Server	T1584.003
Resource Development	Compromise Infrastructure: Web Services	T1584.006
Resource Development	Develop Capabilities	T1587
Resource Development	Develop Capabilities: Code Signing Certificates	T1587.002
Resource Development	Develop Capabilities: Digital Certificates	T1587.003
Resource Development	Develop Capabilities: Exploits	T1587.004
Resource Development	Develop Capabilities: Malware	T1587.001
Resource Development	Establish Accounts	T1585
Resource Development	Establish Accounts: Email Accounts	T1585.002
Resource Development	Establish Accounts: Social Media Accounts	T1585.001
Execution	Exploitation for Client Execution	T1203
Credential Access	Exploitation for Credential Access	T1212
Defense Evasion	Exploitation for Defense Evasion	T1211
Reconnaissance	Gather Victim Host Information	T1592
Reconnaissance	Gather Victim Host Information: Client Configurations	T1592.004
Reconnaissance	Gather Victim Host Information: Firmware	T1592.003
Reconnaissance	Gather Victim Host Information: Hardware	T1592.001
Reconnaissance	Gather Victim Host Information: Software	T1592.002
Reconnaissance	Gather Victim Identity Information	T1589
Reconnaissance	Gather Victim Identity Information: Credentials	T1589.001
Reconnaissance	Gather Victim Identity Information: Email Addresses	T1589.002
Reconnaissance	Gather Victim Identity Information: Employee Names	T1589.003
Reconnaissance	Gather Victim Network Information	T1590
Reconnaissance	Gather Victim Network Information: DNS	T1590.002
Reconnaissance	Gather Victim Network Information: Domain Properties	T1590.001
Reconnaissance	Gather Victim Network Information: IP Addresses	T1590.005
Reconnaissance	Gather Victim Network Information: Network Security Appliances	T1590.006
Reconnaissance	Gather Victim Network Information: Network Topology	T1590.004
Reconnaissance	Gather Victim Network Information: Network Trust Dependencies	T1590.003
Reconnaissance	Gather Victim Org Information	T1591
Reconnaissance	Gather Victim Org Information: Business Relationships	T1591.002
Reconnaissance	Gather Victim Org Information: Determine Physical Locations	T1591.001
Reconnaissance	Gather Victim Org Information: Identify Business Tempo	T1591.003
Reconnaissance	Gather Victim Org Information: Identify Roles	T1591.004
Initial Access	Hardware Additions	T1200

tactics	technique	ID
Defense Evasion	Obfuscated Files or Information: Indicator Removal from Tools	T1027.005
Resource Development	Obtain Capabilities	T1588
Resource Development	Obtain Capabilities: Code Signing Certificates	T1588.003
Resource Development	Obtain Capabilities: Digital Certificates	T1588.004
Resource Development	Obtain Capabilities: Exploits	T1588.005
Resource Development	Obtain Capabilities: Malware	T1588.001
Resource Development	Obtain Capabilities: Tool	T1588.002
Resource Development	Obtain Capabilities: Vulnerabilities	T1588.006
Reconnaissance	Search Closed Sources	T1597
Reconnaissance	Search Closed Sources: Purchase Technical Data	T1597.002
Reconnaissance	Search Closed Sources: Threat Intel Vendors	T1597.001
Reconnaissance	Search Open Technical Databases	T1596
Reconnaissance	Search Open Technical Databases: CDNs	T1596.004
Reconnaissance	Search Open Technical Databases: DNS/Passive DNS	T1596.001
Reconnaissance	Search Open Technical Databases: Digital Certificates	T1596.003
Reconnaissance	Search Open Technical Databases: Scan Databases	T1596.005
Reconnaissance	Search Open Technical Databases: WHOIS	T1596.002
Reconnaissance	Search Open Websites/Domains	T1593
Reconnaissance	Search Open Websites/Domains: Search Engines	T1593.002
Reconnaissance	Search Open Websites/Domains: Social Media	T1593.001
Resource Development	Stage Capabilities	T1608
Resource Development	Stage Capabilities: Drive-by Target	T1608.004
Resource Development	Stage Capabilities: Install Digital Certificate	T1608.003
Resource Development	Stage Capabilities: Link Target	T1608.005
Resource Development	Stage Capabilities: Upload Malware	T1608.001
Resource Development	Stage Capabilities: Upload Tool	T1608.002
Initial Access	Supply Chain Compromise	T1195
Initial Access	Supply Chain Compromise: Compromise Hardware Supply Chain	T1195.003
Initial Access	Supply Chain Compromise: Compromise Software Dependencies and Development Tools	T1195.001
Initial Access	Supply Chain Compromise: Compromise Software Supply Chain	T1195.002

Windows only Techniques and Sub-techniques

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MacOS only Techniques and Sub-techniques

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Linux only Techniques and Sub-techniques

9

Windows only Techniques and Sub-techniques

tactics	technique	ID	DS
Credential Access	Steal or Forge Kerberos Tickets	T1558	Active Directory: Active Directory Credential Request
Credential Access	Steal or Forge Kerberos Tickets: AS-REP Roasting	T1558.004	Active Directory: Active Directory Credential Request
Credential Access	Steal or Forge Kerberos Tickets: Golden Ticket	T1558.001	Active Directory: Active Directory Credential Request
Credential Access	Steal or Forge Kerberos Tickets: Kerberoasting	T1558.003	Active Directory: Active Directory Credential Request
Defense Evasion, Lateral Movement	Use Alternate Authentication Material: Pass the Hash	T1550.002	Active Directory: Active Directory Credential Request
Defense Evasion, Lateral Movement	Use Alternate Authentication Material: Pass the Ticket	T1550.003	Active Directory: Active Directory Credential Request
Credential Access	OS Credential Dumping: DCSync	T1003.006	Active Directory: Active Directory Object Access
Defense Evasion, Privilege Escalation	Domain Policy Modification: Group Policy Modification	T1484.001	Active Directory: Active Directory Object Creation
Defense Evasion	Rogue Domain Controller	T1207	Active Directory: Active Directory Object Creation
Defense Evasion, Privilege Escalation	Access Token Manipulation	T1134	Active Directory: Active Directory Object Modification
Defense Evasion, Privilege Escalation	Access Token Manipulation: SID-History Injection	T1134.005	Active Directory: Active Directory Object Modification
Persistence, Privilege Escalation	Boot or Logon Initialization Scripts: Network Logon Script	T1037.003	Active Directory: Active Directory Object Modification
Defense Evasion	File and Directory Permissions Modification: Windows File and Directory Permissions Modification	T1222.001	Active Directory: Active Directory Object Modification
Defense Evasion, Privilege Escalation	Abuse Elevation Control Mechanism: Bypass User Account Control	T1548.002	Command: Command Execution
Defense Evasion, Privilege Escalation	Access Token Manipulation: Create Process with Token	T1134.002	Command: Command Execution
Defense Evasion, Privilege Escalation	Access Token Manipulation: Make and Impersonate Token	T1134.003	Command: Command Execution
Defense Evasion, Privilege Escalation	Access Token Manipulation: Token Impersonation/Theft	T1134.001	Command: Command Execution
Defense Evasion, Persistence	BITS Jobs	T1197	Command: Command Execution
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Active Setup	T1547.014	Command: Command Execution

tactics	technique	ID	DS
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Authentication Package	T1547.002	Command: Command Execution
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Registry Run Keys / Startup Folder	T1547.001	Command: Command Execution
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Security Support Provider	T1547.005	Command: Command Execution
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Time Providers	T1547.003	Command: Command Execution
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Winlogon Helper DLL	T1547.004	Command: Command Execution
Persistence, Privilege Escalation	Boot or Logon Initialization Scripts: Logon Script (Windows)	T1037.001	Command: Command Execution
Execution	Command and Scripting Interpreter: PowerShell	T1059.001	Command: Command Execution
Execution	Command and Scripting Interpreter: Windows Command Shell	T1059.003	Command: Command Execution
Persistence, Privilege Escalation	Create or Modify System Process: Windows Service	T1543.003	Command: Command Execution
Credential Access	Credentials from Password Stores: Windows Credential Manager	T1555.004	Command: Command Execution
Defense Evasion	Direct Volume Access	T1006	Command: Command Execution
Discovery	Domain Trust Discovery	T1482	Command: Command Execution
Collection	Email Collection: Local Email Collection	T1114.001	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Accessibility Features	T1546.008	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: AppCert DLLs	T1546.009	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: AppInit DLLs	T1546.010	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Application Shimming	T1546.011	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Change Default File Association	T1546.001	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Component Object Model Hijacking	T1546.015	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Image File Execution Options Injection	T1546.012	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Netsh Helper DLL	T1546.007	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: PowerShell Profile	T1546.013	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Screensaver	T1546.002	Command: Command Execution
Persistence, Privilege Escalation	Event Triggered Execution: Windows Management Instrumentation Event Subscription	T1546.003	Command: Command Execution
Defense Evasion	Hide Artifacts: NTFS File Attributes	T1564.004	Command: Command Execution
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: COR_PROFILER	T1574.012	Command: Command Execution
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: Services Registry Permissions Weakness	T1574.011	Command: Command Execution
Defense Evasion	Impair Defenses: Disable Windows Event Logging	T1562.002	Command: Command Execution
Defense Evasion	Indicator Removal on Host: Clear Windows Event Logs	T1070.001	Command: Command Execution
Defense Evasion	Indicator Removal on Host: Network Share Connection Removal	T1070.005	Command: Command Execution
Defense Evasion	Indirect Command Execution	T1202	Command: Command Execution
Defense Evasion	Modify Registry	T1112	Command: Command Execution
Credential Access	OS Credential Dumping: Cached Domain Credentials	T1003.005	Command: Command Execution
Credential Access	OS Credential Dumping: LSA Secrets	T1003.004	Command: Command Execution
Credential Access	OS Credential Dumping: LSASS Memory	T1003.001	Command: Command Execution
Credential Access	OS Credential Dumping: NTDS	T1003.003	Command: Command Execution
Credential Access	OS Credential Dumping: Security Account Manager	T1003.002	Command: Command Execution
Discovery	Query Registry	T1012	Command: Command Execution
Lateral Movement	Remote Service Session Hijacking: RDP Hijacking	T1563.002	Command: Command Execution
Lateral Movement	Remote Services: SMB/Windows Admin Shares	T1021.002	Command: Command Execution
Lateral Movement	Remote Services: Windows Remote Management	T1021.006	Command: Command Execution
Execution, Persistence, Privilege Escalation	Scheduled Task/Job: At (Windows)	T1053.002	Command: Command Execution
Execution, Persistence, Privilege Escalation	Scheduled Task/Job: Scheduled Task	T1053.005	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution	T1218	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: CMSTP	T1218.003	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Compiled HTML File	T1218.001	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Control Panel	T1218.002	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: InstallUtil	T1218.004	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Mshta	T1218.005	Command: Command Execution

tactics	technique	ID	DS
Defense Evasion	Signed Binary Proxy Execution: Msiexec	T1218.007	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Odbconfnf	T1218.008	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Regsvcs/Regasm	T1218.009	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Regsvr32	T1218.010	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Rundll32	T1218.011	Command: Command Execution
Defense Evasion	Signed Binary Proxy Execution: Verclsid	T1218.012	Command: Command Execution
Defense Evasion	Signed Script Proxy Execution	T1216	Command: Command Execution
Defense Evasion	Signed Script Proxy Execution: PubPrn	T1216.001	Command: Command Execution
Discovery	System Service Discovery	T1007	Command: Command Execution
Execution	System Services: Service Execution	T1569.002	Command: Command Execution
Discovery	System Time Discovery	T1124	Command: Command Execution
Defense Evasion	Trusted Developer Utilities Proxy Execution	T1127	Command: Command Execution
Defense Evasion	Trusted Developer Utilities Proxy Execution: MSBuild	T1127.001	Command: Command Execution
Credential Access	Unsecured Credentials: Credentials in Registry	T1552.002	Command: Command Execution
Credential Access	Unsecured Credentials: Group Policy Preferences	T1552.006	Command: Command Execution
Execution	Windows Management Instrumentation	T1047	Command: Command Execution
Initial Access, Lateral Movement	Replication Through Removable Media	T1091	Drive: Drive Creation
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: LSASS Driver	T1547.008	Driver: Driver Load
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Print Processors	T1547.012	Driver: Driver Load
Defense Evasion, Persistence	Pre-OS Boot: Component Firmware	T1542.002	Driver: Driver Metadata
Credential Access	Forced Authentication	T1187	File: File Access
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Port Monitors	T1547.010	File: File Creation
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Shortcut Modification	T1547.009	File: File Creation
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: DLL Search Order Hijacking	T1574.001	File: File Creation
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: DLL Side-Loading	T1574.002	File: File Creation
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: Executable Installer File Permissions Weakness	T1574.005	File: File Creation
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: Path Interception by PATH Environment Variable	T1574.007	File: File Creation
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: Path Interception by Search Order Hijacking	T1574.008	File: File Creation
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: Path Interception by Unquoted Path	T1574.009	File: File Creation
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: Services File Permissions Weakness	T1574.010	File: File Creation
Credential Access, Defense Evasion, Persistence	Modify Authentication Process: Password Filter DLL	T1556.002	File: File Creation
Defense Evasion	Subvert Trust Controls: Mark-of-the-Web Bypass	T1553.005	File: File Creation
Lateral Movement	Taint Shared Content	T1080	File: File Creation
Defense Evasion, Privilege Escalation	Process Injection: Process Doppelgänger	T1055.013	File: File Metadata
Credential Access, Defense Evasion, Persistence	Modify Authentication Process: Domain Controller Authentication	T1556.001	File: File Modification
Defense Evasion	Subvert Trust Controls: SIP and Trust Provider Hijacking	T1553.003	File: File Modification
Defense Evasion, Persistence	Pre-OS Boot: System Firmware	T1542.001	Firmware: Firmware Modification
Collection	Man in the Browser	T1185	Logon Session: Logon Session Creation
Lateral Movement	Remote Services: Remote Desktop Protocol	T1021.001	Logon Session: Logon Session Creation
Credential Access	Steal or Forge Kerberos Tickets: Silver Ticket	T1558.002	Logon Session: Logon Session Metadata
Execution	Inter-Process Communication	T1559	Module: Module Load
Execution	Inter-Process Communication: Component Object Model	T1559.001	Module: Module Load
Execution	Inter-Process Communication: Dynamic Data Exchange	T1559.002	Module: Module Load
Defense Evasion, Privilege Escalation	Process Injection: Dynamic-link Library Injection	T1055.001	Module: Module Load
Lateral Movement	Remote Services: Distributed Component Object Model	T1021.003	Module: Module Load
Execution	Shared Modules	T1129	Module: Module Load

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Defense Evasion	XSL Script Processing	T1220	Module: Module Load
Defense Evasion	Template Injection	T1221	Network Traffic: Network Connection Creation
Collection, Credential Access	Man-in-the-Middle: LLMNR/NBT-NS Poisoning and SMB Relay	T1557.001	Network Traffic: Network Traffic Flow
Defense Evasion, Privilege Escalation	Access Token Manipulation: Parent PID Spoofing	T1134.004	Process: OS API Execution
Collection, Credential Access	Input Capture: Credential API Hooking	T1056.004	Process: OS API Execution
Defense Evasion, Privilege Escalation	Process Injection: Asynchronous Procedure Call	T1055.004	Process: OS API Execution
Defense Evasion, Privilege Escalation	Process Injection: Extra Window Memory Injection	T1055.011	Process: OS API Execution
Defense Evasion, Privilege Escalation	Process Injection: Portable Executable Injection	T1055.002	Process: OS API Execution
Defense Evasion, Privilege Escalation	Process Injection: Process Hollowing	T1055.012	Process: OS API Execution
Defense Evasion, Privilege Escalation	Process Injection: Thread Execution Hijacking	T1055.003	Process: OS API Execution
Defense Evasion, Privilege Escalation	Process Injection: Thread Local Storage	T1055.005	Process: OS API Execution

MacOS only Techniques and Sub-techniques

tactics	technique	ID
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Re-opened Applications	T1547.007
Persistence, Privilege Escalation	Boot or Logon Initialization Scripts: Logon Script (Mac)	T1037.002
Persistence, Privilege Escalation	Boot or Logon Initialization Scripts: Startup Items	T1037.005
Execution	Command and Scripting Interpreter: AppleScript	T1059.002
Persistence, Privilege Escalation	Create or Modify System Process: Launch Agent	T1543.001
Persistence, Privilege Escalation	Create or Modify System Process: Launch Daemon	T1543.004
Credential Access	Credentials from Password Stores: Keychain	T1555.001
Persistence, Privilege Escalation	Event Triggered Execution: Emond	T1546.014
Persistence, Privilege Escalation	Event Triggered Execution: LC_LOAD_DYLIB Addition	T1546.006
Execution, Persistence, Privilege Escalation	Scheduled Task/Job: Launchd	T1053.004
Defense Evasion	Subvert Trust Controls: Gatekeeper Bypass	T1553.001
Execution	System Services: Launchctl	T1569.001
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: Plist Modification	T1547.011
Defense Evasion, Persistence, Privilege Escalation	Hijack Execution Flow: Dyllib Hijacking	T1574.004
Defense Evasion	Hide Artifacts: Hidden Users	T1564.002
Defense Evasion, Privilege Escalation	Abuse Elevation Control Mechanism: Elevated Execution with Prompt	T1548.004

Linux only Techniques and Sub-techniques

tactics	technique	ID
Persistence, Privilege Escalation	Boot or Logon Autostart Execution: XDG Autostart Entries	T1547.013
Persistence, Privilege Escalation	Create or Modify System Process: Systemd Service	T1543.002
Credential Access	OS Credential Dumping: /etc/passwd and /etc/shadow	T1003.008
Credential Access	OS Credential Dumping: Proc Filesystem	T1003.007
Execution, Persistence, Privilege Escalation	Scheduled Task/Job: At (Linux)	T1053.001
Execution, Persistence, Privilege Escalation	Scheduled Task/Job: Systemd Timers	T1053.006
Defense Evasion, Privilege Escalation	Process Injection: Proc Memory	T1055.009
Defense Evasion, Privilege Escalation	Process Injection: VDSO Hijacking	T1055.014
Defense Evasion, Privilege Escalation	Process Injection: Ptrace System Calls	T1055.008