

Cobalt Strike, Software S0154 | MITRE ATT&CK®

Archived: 2026-04-05 14:06:54 UTC

Enterprise [T1548](#) [.002 Abuse Elevation Control Mechanism: Bypass User Account Control](#)

[Cobalt Strike](#) can use a number of known techniques to bypass Windows UAC. [\[1\]\[2\]](#)

[.003 Abuse Elevation Control Mechanism: Sudo and Sudo Caching](#)

[Cobalt Strike](#) can use `sudo` to run a command. [\[2\]](#)

Enterprise [T1134](#) [.001 Access Token Manipulation: Token Impersonation/Theft](#)

[Cobalt Strike](#) can steal access tokens from exiting processes. [\[1\]\[2\]](#)

[.003 Access Token Manipulation: Make and Impersonate Token](#)

[Cobalt Strike](#) can make tokens from known credentials. [\[1\]](#)

[.004 Access Token Manipulation: Parent PID Spoofing](#)

[Cobalt Strike](#) can spawn processes with alternate PPIDs. [\[3\]\[2\]](#)

Enterprise [T1087](#) [.002 Account Discovery: Domain Account](#)

[Cobalt Strike](#) can determine if the user on an infected machine is in the admin or domain admin group. [\[4\]](#)

Enterprise [T1071](#) [.001 Application Layer Protocol: Web Protocols](#)

[Cobalt Strike](#) can use a custom command and control protocol that can be encapsulated in HTTP or HTTPS. All protocols use their standard assigned ports. [\[1\]\[5\]\[2\]\[6\]\[7\]](#)

[.002 Application Layer Protocol: File Transfer Protocols](#)

[Cobalt Strike](#) can conduct peer-to-peer communication over Windows named pipes encapsulated in the SMB protocol. All protocols use their standard assigned ports. [\[1\]\[5\]](#)

[.004 Application Layer Protocol: DNS](#)

[Cobalt Strike](#) can use a custom command and control protocol that can be encapsulated in DNS. All protocols use their standard assigned ports. [\[1\]\[5\]\[2\]](#)

Enterprise [T1197](#) [BITS Jobs](#)

[Cobalt Strike](#) can download a hosted "beacon" payload using [BITSAdmin](#). [\[8\]\[5\]\[2\]](#)

Enterprise [T1185 Browser Session Hijacking](#)

[Cobalt Strike](#) can perform browser pivoting and inject into a user's browser to inherit cookies, authenticated HTTP sessions, and client SSL certificates.^{[1][2]}

Enterprise [T1059 .001 Command and Scripting Interpreter: PowerShell](#)

[Cobalt Strike](#) can execute a payload on a remote host with PowerShell. This technique does not write any data to disk.^{[1][4]} [Cobalt Strike](#) can also use [PowerSploit](#) and other scripting frameworks to perform execution.^{[9][3][5][2]}

[.003 Command and Scripting Interpreter: Windows Command Shell](#)

[Cobalt Strike](#) uses a command-line interface to interact with systems.^{[9][5][2][10]}

[.005 Command and Scripting Interpreter: Visual Basic](#)

[Cobalt Strike](#) can use VBA to perform execution.^{[9][3][5]}

[.006 Command and Scripting Interpreter: Python](#)

[Cobalt Strike](#) can use Python to perform execution.^{[9][3][5][2]}

[.007 Command and Scripting Interpreter: JavaScript](#)

The [Cobalt Strike](#) System Profiler can use JavaScript to perform reconnaissance actions.^[5]

Enterprise [T1543 .003 Create or Modify System Process: Windows Service](#)

[Cobalt Strike](#) can install a new service.^[9]

Enterprise [T1132 .001 Data Encoding: Standard Encoding](#)

[Cobalt Strike](#) can use Base64, URL-safe Base64, or NetBIOS encoding in its C2 traffic.^[2]

Enterprise [T1005 Data from Local System](#)

[Cobalt Strike](#) can collect data from a local system.^{[9][2]}

Enterprise [T1001 .003 Data Obfuscation: Protocol or Service Impersonation](#)

[Cobalt Strike](#) can leverage the HTTP protocol for C2 communication, while hiding the actual data in either an HTTP header, URI parameter, the transaction body, or appending it to the URI.^[2]

Enterprise [T1030 Data Transfer Size Limits](#)

[Cobalt Strike](#) will break large data sets into smaller chunks for exfiltration.^[1]

Enterprise [T1140 Deobfuscate/Decode Files or Information](#)

[Cobalt Strike](#) can deobfuscate shellcode using a rolling XOR and decrypt metadata from Beacon sessions. ^{[5][2]}

Enterprise [T1573 .001 Encrypted Channel: Symmetric Cryptography](#)

[Cobalt Strike](#) has the ability to use AES-256 symmetric encryption in CBC mode with HMAC-SHA-256 to encrypt task commands and XOR to encrypt shell code and configuration data. ^[5]

[.002 Encrypted Channel: Asymmetric Cryptography](#)

[Cobalt Strike](#) can use RSA asymmetric encryption with PKCS1 padding to encrypt data sent to the C2 server. ^[5]

Enterprise [T1203 Exploitation for Client Execution](#)

[Cobalt Strike](#) can exploit Oracle Java vulnerabilities for execution, including CVE-2011-3544, CVE-2013-2465, CVE-2012-4681, and CVE-2013-2460. ^{[5][2]}

Enterprise [T1068 Exploitation for Privilege Escalation](#)

[Cobalt Strike](#) can exploit vulnerabilities such as MS14-058. ^{[9][2]}

Enterprise [T1083 File and Directory Discovery](#)

[Cobalt Strike](#) can explore files on a compromised system. ^[2]

Enterprise [T1564 .010 Hide Artifacts: Process Argument Spoofing](#)

[Cobalt Strike](#) can use spoof arguments in spawned processes that execute beacon commands. ^[2]

Enterprise [T1562 .001 Impair Defenses: Disable or Modify Tools](#)

[Cobalt Strike](#) has the ability to use Smart Applet attacks to disable the Java SecurityManager sandbox. ^{[5][2]}

Enterprise [T1070 .006 Indicator Removal: Timestomp](#)

[Cobalt Strike](#) can timestomp any files or payloads placed on a target machine to help them blend in. ^{[1][2]}

Enterprise [T1105 Ingress Tool Transfer](#)

[Cobalt Strike](#) can deliver additional payloads to victim machines. ^{[5][2]}

Enterprise [T1056 .001 Input Capture: Keylogging](#)

[Cobalt Strike](#) can track key presses with a keylogger module. ^{[1][1][2]}

Enterprise [T1112 Modify Registry](#)

[Cobalt Strike](#) can modify Registry values within

`HKEY_CURRENT_USER\Software\Microsoft\Office\Excel\Security\AccessVBOM` to enable the execution of additional code. ^[5]

Enterprise [T1106 Native API](#)

[Cobalt Strike](#)'s Beacon payload is capable of running shell commands without `cmd.exe` and PowerShell commands without `powershell.exe`.^{[1][5][2]}

Enterprise [T1046 Network Service Discovery](#)

[Cobalt Strike](#) can perform port scans from an infected host.^{[1][5][2]}

Enterprise [T1135 Network Share Discovery](#)

[Cobalt Strike](#) can query shared drives on the local system.^[9]

Enterprise [T1095 Non-Application Layer Protocol](#)

[Cobalt Strike](#) can be configured to use TCP, ICMP, and UDP for C2 communications.^{[5][2]}

Enterprise [T1027 Obfuscated Files or Information](#)

[Cobalt Strike](#) can hash functions to obfuscate calls to the Windows API and use a public/private key pair to encrypt Beacon session metadata.^{[5][2]}

[.005 Indicator Removal from Tools](#)

[Cobalt Strike](#) includes a capability to modify the Beacon payload to eliminate known signatures or unpacking methods.^{[1][2]}

Enterprise [T1137 .001 Office Application Startup: Office Template Macros](#)

[Cobalt Strike](#) has the ability to use an Excel Workbook to execute additional code by enabling Office to trust macros and execute code without user permission.^[5]

Enterprise [T1003 .001 OS Credential Dumping: LSASS Memory](#)

[Cobalt Strike](#) can spawn a job to inject into LSASS memory and dump password hashes.^[2]

[.002 OS Credential Dumping: Security Account Manager](#)

[Cobalt Strike](#) can recover hashed passwords.^[1]

Enterprise [T1069 .001 Permission Groups Discovery: Local Groups](#)

[Cobalt Strike](#) can use `net localgroup` to list local groups on a system.^[2]

[.002 Permission Groups Discovery: Domain Groups](#)

[Cobalt Strike](#) can identify targets by querying account groups on a domain controller.^[2]

Enterprise [T1057 Process Discovery](#)

[Cobalt Strike](#)'s Beacon payload can collect information on process details.^{[1][5][2]}

Enterprise [T1055 Process Injection](#)

[Cobalt Strike](#) can inject a variety of payloads into processes dynamically chosen by the adversary.^{[1][2][12]}

[.001 Dynamic-link Library Injection](#)

[Cobalt Strike](#) has the ability to load DLLs via reflective injection.^{[5][2]}

[.012 Process Hollowing](#)

[Cobalt Strike](#) can use process hollowing for execution.^{[9][2]}

Enterprise [T1572 Protocol Tunneling](#)

[Cobalt Strike](#) uses a custom command and control protocol that is encapsulated in HTTP, HTTPS, or DNS. In addition, it conducts peer-to-peer communication over Windows named pipes encapsulated in the SMB protocol. All protocols use their standard assigned ports.^{[1][2]}

Enterprise [T1090 .001 Proxy: Internal Proxy](#)

[Cobalt Strike](#) can be configured to have commands relayed over a peer-to-peer network of infected hosts. This can be used to limit the number of egress points, or provide access to a host without direct internet access.^{[1][2]}

[.004 Proxy: Domain Fronting](#)

[Cobalt Strike](#) has the ability to accept a value for HTTP Host Header to enable domain fronting.^[2]

Enterprise [T1012 Query Registry](#)

[Cobalt Strike](#) can query `HKEY_CURRENT_USER\Software\Microsoft\Office\Excel\Security\AccessVBOM\` to determine if the security setting for restricting default programmatic access is enabled.^{[5][2]}

Enterprise [T1620 Reflective Code Loading](#)

[Cobalt Strike](#)'s `execute-assembly` command can run a .NET executable within the memory of a sacrificial process by loading the CLR.^[2]

Enterprise [T1021 .001 Remote Services: Remote Desktop Protocol](#)

[Cobalt Strike](#) can start a VNC-based remote desktop server and tunnel the connection through the already established C2 channel.^{[1][13]}

[.002 Remote Services: SMB/Windows Admin Shares](#)

[Cobalt Strike](#) can use Windows admin shares (C\$ and ADMIN\$) for lateral movement.^{[9][10]}

[.003 Remote Services: Distributed Component Object Model](#)

[Cobalt Strike](#) can deliver Beacon payloads for lateral movement by leveraging remote COM execution. ^[14]

[.004 Remote Services: SSH](#)

[Cobalt Strike](#) can SSH to a remote service. ^{[9][2]}

[.006 Remote Services: Windows Remote Management](#)

[Cobalt Strike](#) can use `WinRM` to execute a payload on a remote host. ^{[1][2]}

Enterprise [T1018 Remote System Discovery](#)

[Cobalt Strike](#) uses the native Windows Network Enumeration APIs to interrogate and discover targets in a Windows Active Directory network. ^{[1][5][2]}

Enterprise [T1029 Scheduled Transfer](#)

[Cobalt Strike](#) can set its Beacon payload to reach out to the C2 server on an arbitrary and random interval. ^[1]

Enterprise [T1113 Screen Capture](#)

[Cobalt Strike](#)'s Beacon payload is capable of capturing screenshots. ^{[1][11][2]}

Enterprise [T1518 Software Discovery](#)

The [Cobalt Strike](#) System Profiler can discover applications through the browser and identify the version of Java the target has. ^[2]

Enterprise [T1553 .002 Subvert Trust Controls: Code Signing](#)

[Cobalt Strike](#) can use self signed Java applets to execute signed applet attacks. ^{[5][2]}

Enterprise [T1218 .011 System Binary Proxy Execution: Rundll32](#)

[Cobalt Strike](#) can use `rundll32.exe` to load DLL from the command line. ^{[2][12][10]}

Enterprise [T1016 System Network Configuration Discovery](#)

[Cobalt Strike](#) can determine the NetBios name and the IP addresses of targets machines including domain controllers. ^{[4][2]}

Enterprise [T1049 System Network Connections Discovery](#)

[Cobalt Strike](#) can produce a sessions report from compromised hosts. ^[5]

Enterprise [T1007 System Service Discovery](#)

[Cobalt Strike](#) can enumerate services on compromised hosts. ^[2]

Enterprise [T1569 .002 System Services: Service Execution](#)

[Cobalt Strike](#) can use [PsExec](#) to execute a payload on a remote host. It can also use Service Control Manager to start new services. [\[1\]\[9\]\[2\]](#)

Enterprise [T1550 .002 Use Alternate Authentication Material: Pass the Hash](#)

[Cobalt Strike](#) can perform pass the hash. [\[9\]](#)

Enterprise [T1078 .002 Valid Accounts: Domain Accounts](#)

[Cobalt Strike](#) can use known credentials to run commands and spawn processes as a domain user account. [\[1\]\[3\]\[2\]](#)

[.003 Valid Accounts: Local Accounts](#)

[Cobalt Strike](#) can use known credentials to run commands and spawn processes as a local user account. [\[1\]\[3\]](#)

Enterprise [T1047 Windows Management Instrumentation](#)

[Cobalt Strike](#) can use WMI to deliver a payload to a remote host. [\[1\]\[2\]\[12\]](#)

Source: <https://attack.mitre.org/software/S0154/>