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## Cobalt Strike

[Cobalt Strike](#) is a commercial, full-featured, penetration testing tool which bills itself as “adversary simulation software designed to execute targeted attacks and emulate the post-exploitation actions of advanced threat actors”. Cobalt Strike’s interactive post-exploit capabilities cover the full range of ATT&CK tactics, all executed within a single, integrated system. <sup>[1]</sup>

In addition to its own capabilities, [Cobalt Strike](#) leverages the capabilities of other well-known tools such as Metasploit and [Mimikatz](#). <sup>[1]</sup>

ID: S0154

Type: TOOL

Platforms: Windows

Contributors: Josh Abraham

Version: 1.3

Created: 14 December 2017

Last Modified: 23 June 2020

[Version Permalink](#)

## Techniques Used

ATT&CK® Navigator Layers

Domain	ID		Name	Use
Enterprise	<a href="#">T1548</a>	<a href="#">.002</a>	<a href="#">Abuse Elevation Control Mechanism: Bypass User Access Control</a>	<a href="#">Cobalt Strike</a> can use a number of known techniques to bypass Windows UAC. <sup>[1]</sup>
Enterprise	<a href="#">T1134</a>	<a href="#">.001</a>	<a href="#">Access Token Manipulation: Token Impersonation/Theft</a>	<a href="#">Cobalt Strike</a> can steal access tokens from exiting processes. <sup>[1]</sup>
		<a href="#">.004</a>	<a href="#">Access Token Manipulation: Parent PID Spoofing</a>	<a href="#">Cobalt Strike</a> can spawn processes with alternate PPIDs. <sup>[3]</sup>
		<a href="#">.003</a>	<a href="#">Access Token Manipulation: Make and Impersonate Token</a>	<a href="#">Cobalt Strike</a> can make tokens from known credentials. <sup>[1]</sup>
Enterprise	<a href="#">T1071</a>		<a href="#">Application Layer Protocol</a>	<a href="#">Cobalt Strike</a> conducts peer-to-peer communication over Windows named pipes encapsulated in the SMB protocol. All protocols use their standard assigned ports. <sup>[1]</sup>
		<a href="#">.004</a>	<a href="#">DNS</a>	<a href="#">Cobalt Strike</a> uses a custom command and control protocol that can encapsulated in DNS. All protocols use their standard assigned ports. <sup>[1]</sup>
		<a href="#">.001</a>	<a href="#">Web Protocols</a>	<a href="#">Cobalt Strike</a> uses a custom command and control protocol that can be encapsulated in HTTP or HTTPS, or DNS. All protocols use their standard assigned ports. <sup>[1]</sup>

Enterprise	<a href="#">T1059</a>	<a href="#">.003</a>	<a href="#">Command and Scripting Interpreter: Windows Command Shell</a>	<a href="#">Cobalt Strike</a> uses a command-line interface to interact with systems. <sup>[2]</sup>
		<a href="#">.001</a>	<a href="#">Command and Scripting Interpreter: PowerShell</a>	<a href="#">Cobalt Strike</a> can execute a payload on a remote host with PowerShell. This technique does not write any data to disk. <sup>[1]</sup> <a href="#">Cobalt Strike</a> can also use <a href="#">PowerSploit</a> and other scripting frameworks to perform execution. <sup>[2][3]</sup>
		<a href="#">.005</a>	<a href="#">Command and Scripting Interpreter: Visual Basic</a>	<a href="#">Cobalt Strike</a> can use VBA to perform execution. <sup>[2][3]</sup>
		<a href="#">.006</a>	<a href="#">Command and Scripting Interpreter: Python</a>	<a href="#">Cobalt Strike</a> can use Python to perform execution. <sup>[2][3]</sup>
Enterprise	<a href="#">T1543</a>	<a href="#">.003</a>	<a href="#">Create or Modify System Process: Windows Service</a>	<a href="#">Cobalt Strike</a> can install a new service. <sup>[2]</sup>
Enterprise	<a href="#">T1005</a>		<a href="#">Data from Local System</a>	<a href="#">Cobalt Strike</a> can collect data from a local system. <sup>[2]</sup>
Enterprise	<a href="#">T1068</a>		<a href="#">Exploitation for Privilege Escalation</a>	<a href="#">Cobalt Strike</a> can exploit vulnerabilities such as MS14-058. <sup>[2]</sup>
Enterprise	<a href="#">T1070</a>	<a href="#">.006</a>	<a href="#">Indicator Removal on Host: Timestamp</a>	<a href="#">Cobalt Strike</a> will timestamp any files or payloads placed on a target machine to help them blend in. <sup>[1]</sup>
Enterprise	<a href="#">T1056</a>	<a href="#">.001</a>	<a href="#">Input Capture: Keylogging</a>	<a href="#">Cobalt Strike</a> can track key presses with a keylogger module. <sup>[1]</sup>
Enterprise	<a href="#">T1185</a>		<a href="#">Man in the Browser</a>	<a href="#">Cobalt Strike</a> can perform browser pivoting and inject into a user's browser to inherit cookies, authenticated HTTP sessions, and client SSL certificates. <sup>[1]</sup>
Enterprise	<a href="#">T1106</a>		<a href="#">Native API</a>	<a href="#">Cobalt Strike</a> 's "beacon" payload is capable of running shell commands without <code>cmd.exe</code> and PowerShell commands without <code>powershell.exe</code> <sup>[1]</sup>
Enterprise	<a href="#">T1046</a>		<a href="#">Network Service Scanning</a>	<a href="#">Cobalt Strike</a> can perform port scans from an infected host. <sup>[1]</sup>
Enterprise	<a href="#">T1135</a>		<a href="#">Network Share Discovery</a>	<a href="#">Cobalt Strike</a> can query shared drives on the local system. <sup>[2]</sup>
Enterprise	<a href="#">T1027</a>	<a href="#">.005</a>	<a href="#">Obfuscated Files or Information: Indicator Removal from Tools</a>	<a href="#">Cobalt Strike</a> includes a capability to modify the "beacon" payload to eliminate known signatures or unpacking methods. <sup>[1]</sup>
Enterprise	<a href="#">T1002</a>	<a href="#">.003</a>	<a href="#">OS Credential</a>	<a href="#">Cobalt Strike</a> can recover hashed

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- [esentutl](#)
- [EventBot](#)
- [EvilBunny](#)
- [EvilGrab](#)

Enterprise Domain	T1003 ID	.002	OS Credential Dumping: Security Account Manager	<a href="#">Cobalt Strike</a> can recover hashed passwords. <sup>[1]</sup>
Enterprise	T1057		Process Discovery	<a href="#">Cobalt Strike</a> 's "beacon" payload can collect information on process details. <sup>[1]</sup>
Enterprise	T1055		Process Injection	<a href="#">Cobalt Strike</a> can inject a variety of payloads into processes dynamically chosen by the adversary. <sup>[1]</sup>
		.012	Process Hollowing	<a href="#">Cobalt Strike</a> can use process hollowing for execution. <sup>[2]</sup>
Enterprise	T1572		Protocol Tunneling	<a href="#">Cobalt Strike</a> 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. <sup>[1]</sup>
Enterprise	T1090	.001	Proxy: Internal Proxy	<a href="#">Cobalt Strike</a> 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. <sup>[1]</sup>
Enterprise	T1021	.002	Remote Services: SMB/Windows Admin Shares	<a href="#">Cobalt Strike</a> can use Window admin shares (C\$ and ADMIN\$) for lateral movement. <sup>[2]</sup>
		.006	Remote Services: Windows Remote Management	<a href="#">Cobalt Strike</a> can use WinRM to execute a payload on a remote host. <sup>[1]</sup>
		.004	Remote Services: SSH	<a href="#">Cobalt Strike</a> can SSH to a remote service. <sup>[2]</sup>
		.001	Remote Services: Remote Desktop Protocol	<a href="#">Cobalt Strike</a> can start a VNC-based remote desktop server and tunnel the connection through the already established C2 channel. <sup>[1]</sup>
		.003	Remote Services: Distributed Component Object Model	<a href="#">Cobalt Strike</a> can deliver "beacon" payloads for lateral movement by leveraging remote COM execution. <sup>[5]</sup>
Enterprise	T1018		Remote System Discovery	<a href="#">Cobalt Strike</a> uses the native Windows Network Enumeration APIs to interrogate and discover targets in a Windows Active Directory network. <sup>[1]</sup>
Enterprise	T1029		Scheduled Transfer	<a href="#">Cobalt Strike</a> can set its "beacon" payload to reach out to the C2 server on an arbitrary and random interval. In addition it will break large data sets into smaller chunks for exfiltration. <sup>[1]</sup>
Enterprise	T1113		Screen Capture	<a href="#">Cobalt Strike</a> 's "beacon" payload is capable <sup>[1]</sup>

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- [Exaramel for Windows](#)
- [Exodus](#)
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Domain	ID		Name	Use
of capturing screenshots. <sup>[1]</sup>				
Enterprise	<a href="#">T1569</a>	<a href="#">.002</a>	<a href="#">System Services: Service Execution</a>	<a href="#">Cobalt Strike</a> can use <a href="#">PsExec</a> to execute a payload on a remote host. It can also use Service Control Manager to start new services. <sup>[1][2]</sup>
Enterprise	<a href="#">T1550</a>	<a href="#">.002</a>	<a href="#">Use Alternate Authentication Material: Pass the Hash</a>	<a href="#">Cobalt Strike</a> can perform pass the hash. <sup>[2]</sup>
Enterprise	<a href="#">T1078</a>	<a href="#">.003</a>	<a href="#">Valid Accounts: Local Accounts</a>	<a href="#">Cobalt Strike</a> can use known credentials to run commands and spawn processes as a local user account. <sup>[1][3]</sup>
		<a href="#">.002</a>	<a href="#">Valid Accounts: Domain Accounts</a>	<a href="#">Cobalt Strike</a> can use known credentials to run commands and spawn processes as a domain user account. <sup>[1][3]</sup>
Enterprise	<a href="#">T1047</a>		<a href="#">Windows Management Instrumentation</a>	<a href="#">Cobalt Strike</a> can use WMI to deliver a payload to a remote host. <sup>[1]</sup>

## Groups That Use This Software

ID	Name	References
<a href="#">G0073</a>	<a href="#">APT19</a>	<sup>[6]</sup>
<a href="#">G0079</a>	<a href="#">DarkHydrus</a>	<sup>[7][8]</sup>
<a href="#">G0052</a>	<a href="#">CopyKittens</a>	<sup>[9]</sup>
<a href="#">G0050</a>	<a href="#">APT32</a>	<sup>[10][11][12][13]</sup>
<a href="#">G0080</a>	<a href="#">Cobalt Group</a>	<sup>[14][15][16][17] [18][19][20][21]</sup>
<a href="#">G0016</a>	<a href="#">APT29</a>	<sup>[22]</sup>
<a href="#">G0065</a>	<a href="#">Leviathan</a>	<sup>[23][24]</sup>
<a href="#">G0037</a>	<a href="#">FIN6</a>	<sup>[25]</sup>
<a href="#">G0096</a>	<a href="#">APT41</a>	<sup>[26]</sup>

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[Keydnep](#)

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