

# Proxy, Technique T1090 - Enterprise

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## [G0096 APT41](#)

[APT41](#) used a tool called CLASSFON to covertly proxy network communications. [\[2\]](#)

## [S0456 Aria-body](#)

[Aria-body](#) has the ability to use a reverse SOCKS proxy module. [\[3\]](#)

## [S0347 AuditCred](#)

[AuditCred](#) can utilize proxy for communications. [\[4\]](#)

## [S0245 BADCALL](#)

[BADCALL](#) functions as a proxy server between the victim and C2 server. [\[5\]](#)

## [S1081 BADHATCH](#)

[BADHATCH](#) can use SOCKS4 and SOCKS5 proxies to connect to actor-controlled C2 servers. [BADHATCH](#) can also emulate a reverse proxy on a compromised machine to connect with actor-controlled C2 servers. [\[6\]](#)

## [S0268 Bisonal](#)

[Bisonal](#) has supported use of a proxy server. [\[7\]](#)

## [G0108 Blue Mockingbird](#)

[Blue Mockingbird](#) has used [FRP](#), ssf, and Venom to establish SOCKS proxy connections. [\[8\]](#)

## [C0017 C0017](#)

During [C0017](#), [APT41](#) used the Cloudflare CDN to proxy C2 traffic. [\[9\]](#)

## [C0027 C0027](#)

During [C0027](#), [Scattered Spider](#) installed the open-source rsoctx reverse proxy tool on a targeted ESXi appliance. [\[10\]](#)

## [S0348 Cardinal RAT](#)

[Cardinal RAT](#) can act as a reverse proxy. [\[11\]](#)

## [G1021 Cinnamon Tempest](#)

[Cinnamon Tempest](#) has used a customized version of the Iox port-forwarding and proxy tool. [\[12\]](#)

#### [G1052 Contagious Interview](#)

[Contagious Interview](#) has leveraged Astrill VPN for C2. [\[13\]](#)

#### [G0052 CopyKittens](#)

[CopyKittens](#) has used the AirVPN service for operational activity. [\[14\]](#)

#### [S0384 Dridex](#)

[Dridex](#) contains a backconnect module for tunneling network traffic through a victim's computer. Infected computers become part of a P2P botnet that can relay C2 traffic to other infected peers. [\[15\]](#)[\[16\]](#)

#### [G1006 Earth Lusca](#)

[Earth Lusca](#) adopted Cloudflare as a proxy for compromised servers. [\[17\]](#)

#### [G0117 Fox Kitten](#)

[Fox Kitten](#) has used the open source reverse proxy tools including FRPC and Go Proxy to establish connections from C2 to local servers. [\[18\]](#)[\[19\]](#)[\[20\]](#)

#### [S1144 FRP](#)

[FRP](#) can proxy communications through a server in public IP space to local servers located behind a NAT or firewall. [\[21\]](#)

#### [S1044 FunnyDream](#)

[FunnyDream](#) can identify and use configured proxies in a compromised network for C2 communication. [\[22\]](#)

#### [G0047 Gamaredon Group](#)

[Gamaredon Group](#) has used the Cloudflare Tunnel client to proxy C2 traffic. [\[23\]](#)

#### [S1197 GoBear](#)

[GoBear](#) implements SOCKS5 proxy functionality. [\[24\]](#)

#### [S0690 Green Lambert](#)

[Green Lambert](#) can use proxies for C2 traffic. [\[25\]](#)[\[26\]](#)

#### [S0246 HARDRAIN](#)

[HARDRAIN](#) uses the command `cmd.exe /c netsh firewall add portopening TCP 443 "adp"` and makes the victim machine function as a proxy server. [\[27\]](#)

### [S1229 Havoc](#)

[Havoc](#) has the ability to route HTTP/S communications through designated proxies. <sup>[28]</sup>

### [S0376 HOPLIGHT](#)

[HOPLIGHT](#) has multiple proxy options that mask traffic between the malware and the remote operators. <sup>[29]</sup>

### [S0040 HTRAN](#)

[HTRAN](#) can proxy TCP socket connections to obfuscate command and control infrastructure. <sup>[30][31]</sup>

### [S0283 jRAT](#)

[jRAT](#) can serve as a SOCKS proxy server. <sup>[32]</sup>

### [S1190 Kapeka](#)

[Kapeka](#) can identify system proxy settings via `WinHttpGetIEProxyConfigForCurrentUser()` during initialization and utilize these settings for subsequent command and control operations. <sup>[33]</sup>

### [S0487 Kessel](#)

[Kessel](#) can use a proxy during exfiltration if set in the configuration. <sup>[34]</sup>

### [S1051 KEYPLUG](#)

[KEYPLUG](#) has used Cloudflare CDN associated infrastructure to redirect C2 communications to malicious domains. <sup>[9]</sup>

### [S0669 KOCTOPUS](#)

[KOCTOPUS](#) has deployed a modified version of Invoke-Ngrok to expose open local ports to the Internet. <sup>[35]</sup>

### [G1004 LAPSUS\\$](#)

[LAPSUS\\$](#) has leverage NordVPN for its egress points when targeting intended victims. <sup>[36]</sup>

### [S1121 LITTLELAMB.WOOLTEA](#)

[LITTLELAMB.WOOLTEA](#) has the ability to function as a SOCKS proxy. <sup>[37]</sup>

### [S1141 LunarWeb](#)

[LunarWeb](#) has the ability to use a HTTP proxy server for C&C communications. <sup>[38]</sup>

### [G0059 Magic Hound](#)

[Magic Hound](#) has used Fast Reverse Proxy (FRP) for RDP traffic. <sup>[39]</sup>

### [G1019 MoustachedBouncer](#)

[MoustachedBouncer](#) has used a reverse proxy tool similar to the GitHub repository revsocks. [\[40\]](#)

### [S1189 Neo-reGeorg](#)

[Neo-reGeorg](#) has the ability to establish a SOCKS5 proxy on a compromised web server. [\[41\]](#)

### [S0108 netsh](#)

[netsh](#) can be used to set up a proxy tunnel to allow remote host access to an infected host. [\[42\]](#)

### [S0198 NETWIRE](#)

[NETWIRE](#) can implement use of proxies to pivot traffic. [\[43\]](#)

### [S0508 ngrok](#)

[ngrok](#) can be used to proxy connections to machines located behind NAT or firewalls. [\[44\]](#)[\[45\]](#)

### [C0048 Operation MidnightEclipse](#)

During [Operation MidnightEclipse](#), threat actors used the GO Simple Tunnel reverse proxy tool. [\[46\]](#)

### [C0013 Operation Sharpshooter](#)

For [Operation Sharpshooter](#), the threat actors used the ExpressVPN service to hide their location. [\[47\]](#)

### [C0014 Operation Wocao](#)

During [Operation Wocao](#), threat actors used a custom proxy tool called "Agent" which has support for multiple hops. [\[48\]](#)

### [S0435 PLEAD](#)

[PLEAD](#) has the ability to proxy network communications. [\[49\]](#)

### [G1005 POLONIUM](#)

[POLONIUM](#) has used the AirVPN service for operational activity. [\[14\]](#)

### [S0378 PoshC2](#)

[PoshC2](#) contains modules that allow for use of proxies in command and control. [\[50\]](#)

### [S0262 QuasarRAT](#)

[QuasarRAT](#) can communicate over a reverse proxy using SOCKS5. [\[51\]](#)[\[52\]](#)

### [S0629 RainyDay](#)

[RainyDay](#) can use proxy tools including boost\_proxy\_client for reverse proxy functionality. <sup>[53]</sup>

#### [S1212 RansomHub](#)

[RansomHub](#) can use a proxy to connect to remote SFTP servers. <sup>[54]</sup>

#### [C0047 RedDelta Modified PlugX Infection Chain Operations](#)

[Mustang Panda](#) proxied communication through the Cloudflare CDN service during [RedDelta Modified PlugX Infection Chain Operations](#). <sup>[55]</sup>

#### [C0056 RedPenguin](#)

During [RedPenguin](#), [UNC3886](#) used malware capable of establishing a SOCKS proxy connection to a specified IP and port. <sup>[56][57]</sup>

#### [S1187 reGeorg](#)

[reGeorg](#) can establish an HTTP or SOCKS proxy to tunnel data in and out of a network. <sup>[58][59][60]</sup>

#### [S0332 Remcos](#)

[Remcos](#) uses the infected hosts as SOCKS5 proxies to allow for tunneling and proxying. <sup>[61]</sup>

#### [S1210 Sagerunex](#)

[Sagerunex](#) uses several proxy configuration settings to ensure connectivity. <sup>[62]</sup>

#### [C0059 Salesforce Data Exfiltration](#)

During [Salesforce Data Exfiltration](#), threat actors used Mullvad VPN IPs to proxy voice phishing calls. <sup>[63]</sup>

#### [S1099 Samurai](#)

[Samurai](#) has the ability to proxy connections to specified remote IPs and ports through a a proxy module. <sup>[64]</sup>

#### [G0034 Sandworm Team](#)

[Sandworm Team](#)'s BCS-server tool can create an internal proxy server to redirect traffic from the adversary-controlled C2 to internal servers which may not be connected to the internet, but are interconnected locally. <sup>[65]</sup>

#### [G1015 Scattered Spider](#)

[Scattered Spider](#) has used proxy networks to hamper detection and has installed legitimate proxy tools on VMware vCenter and adversary-controlled VMs. <sup>[66][67]</sup>

#### [S0461 SDBbot](#)

[SDBbot](#) has the ability to use port forwarding to establish a proxy between a target host and C2. <sup>[68]</sup>

### [C0058 SharePoint ToolShell Exploitation](#)

During [SharePoint ToolShell Exploitation](#), threat actors used Fast Reverse Proxy to communicate with C2. [\[69\]](#)[\[70\]](#)

### [S0273 Socksbot](#)

[Socksbot](#) can start SOCKS proxy threads. [\[71\]](#)

### [S0615 SombRAT](#)

[SombRAT](#) has the ability to use an embedded SOCKS proxy in C2 communications. [\[72\]](#)

### [S0436 TSCookie](#)

[TSCookie](#) has the ability to proxy communications with command and control (C2) servers. [\[73\]](#)

### [G0010 Turla](#)

[Turla](#) RPC backdoors have included local UPnP RPC proxies. [\[74\]](#)

### [S0263 TYPEFRAME](#)

A [TYPEFRAME](#) variant can force the compromised system to function as a proxy server. [\[75\]](#)

### [S0386 Ursnif](#)

[Ursnif](#) has used a peer-to-peer (P2P) network for C2. [\[76\]](#)[\[77\]](#)

### [S0207 Vasport](#)

[Vasport](#) is capable of tunneling through a proxy. [\[78\]](#)

### [G1017 Volt Typhoon](#)

[Volt Typhoon](#) has used compromised devices and customized versions of open source tools such as [FRP](#) (Fast Reverse Proxy), Earthworm, and [Impacket](#) to proxy network traffic. [\[79\]](#)[\[80\]](#)[\[81\]](#)

### [S0670 WarzoneRAT](#)

[WarzoneRAT](#) has the capability to act as a reverse proxy. [\[82\]](#)

### [G0124 Windigo](#)

[Windigo](#) has delivered a generic Windows proxy Win32/Glubiteta.M. [Windigo](#) has also used multiple reverse proxy chains as part of their C2 infrastructure. [\[83\]](#)

### [S0117 XTunnel](#)

[XTunnel](#) relays traffic between a C2 server and a victim. [\[84\]](#)

### [S1114 ZIPLINE](#)

[ZIPLINE](#) can create a proxy server on compromised hosts. [\[85\]](#)[\[86\]](#)

### [S0412 ZxShell](#)

[ZxShell](#) can set up an HTTP or SOCKS proxy. [\[2\]](#)[\[87\]](#)

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Source: <https://attack.mitre.org/techniques/T1090>