

HiveForce Labs

THREAT ADVISORY

 **ATTACK REPORT**

C2Looper Builds Footholds for Ransomware

Date of Publication

August 25, 2026

Admiralty Code

A1

TA Number

TA2026244

Summary

First Seen: July 2026

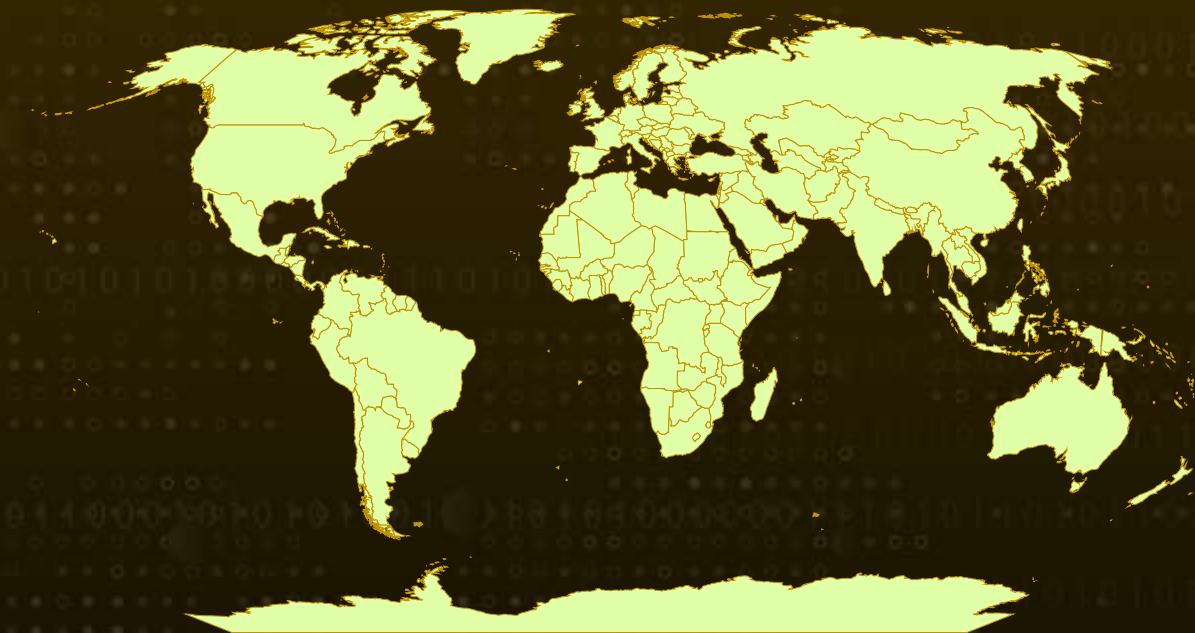
Targeted Regions: Worldwide

Targeted Platforms: Windows

Malware: C2Looper

Attack: C2Looper is a Rust-based Windows backdoor first seen in July 2026, likely delivered through ClickFix lures that trick users into running attacker-supplied commands themselves. It gives an operator remote command execution, host and domain reconnaissance, and the ability to drop follow-on payloads, while hiding through encrypted strings, runtime API resolution, and a malicious DLL loaded by the genuine OneDrive executable. Its newer version abandons its own C2 server and runs all tasking and data theft through a GitHub repository, so operator traffic looks like ordinary developer activity. The capability set fits an initial access broker preparing a foothold for ransomware deployment.

🔪 Attack Regions



Targeted

Non-Targeted

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Powered by Bing

Attack Details

#1

C2Looper is a Rust-based Windows backdoor first identified in July 2026. It likely reaches victims through a multi-stage ClickFix chain, where the user is talked into copying a command and running it themselves. The binary is built to resist analysis from the outset. It keeps its strings encrypted and decrypts them at runtime with a simple XOR operation. It declares almost none of its imports, instead resolving the Windows functions it needs on the fly through LoadLibrary and GetProcAddress. The practical effect is that a static look at the file reveals very little about what it actually does.

#2

Early builds talk to a hardcoded server over plain, unencrypted HTTP. On startup the backdoor collects the username, the machine's DNS hostname, and its own process ID, combines the hostname and username into a bot identifier, and beacons that data out once every second to request a task. The command set is small but enough to hold ground on a host, covering liveness checks, running commands through the Windows command shell either silently or with the output returned, and downloading further payloads. One of those downloads is planted in the folder used by OneDrive, after which the backdoor kills the running OneDrive process so the genuine executable loads the malicious library on restart. This serves as both an update mechanism and a hiding place, since the code now runs inside a trusted signed process.

#3

A later build, labelled version 2 in its own debug strings, adds the reconnaissance an operator needs before pushing deeper. A single command runs against the domain computers and domain admins groups, and wmic product get name, version, returning the network layout, the current user's privileges, the domain controllers, the privileged accounts, and the installed software in one response. Two further commands list a chosen directory and the drives attached to the host. Version 2 also gains an injection command that loads a legitimate Windows system module, writes downloaded shellcode into it, and runs that code on a new thread, letting follow-on payloads execute under the identity of a trusted module. The backdoor carries no credential theft capability of its own, so the enumeration is groundwork, mapping the domain and locating privileged accounts for whatever tooling arrives next.

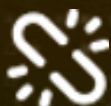
#4

The largest change in version 2 is that it abandons its own C2 server and runs everything through GitHub. Each infected host gets its own folder in a repository holding three JSON files, one carrying tasking, one carrying command output, and one recording the bot identifier and the time of its last check in. Stolen data is written into the same repository. This matters most for defenders, because the traffic is ordinary HTTPS to a domain most organisations allow by default and few will block, so data theft is hard to separate from routine developer activity. Smaller refinements follow the same logic, with command output now captured through Windows pipes rather than written to disk, downloads landing in the temporary folder, and executed files deleted once they finish. Older builds have been observed downloading version 2, confirming the two are operated together. Taken as a whole, the capability set fits an initial access broker, providing quiet entry, reconnaissance, data theft, and a foothold ready to hand to a ransomware crew. Oyster, a family linked to the operators behind Latrodectus, uses closely similar API endpoints, a resemblance worth recording though not enough on its own to connect the two.

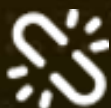
Recommendations



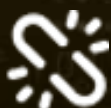
Treat Paste-and-Run Prompts as an Attack Pattern: ClickFix chains succeed only when a user copies attacker-supplied text into the Run dialog, a terminal, or PowerShell. Brief staff specifically on this pattern rather than on generic phishing awareness, and where policy allows, restrict interactive script execution for standard users so that a persuaded user still cannot complete the step.



Watch for DLL Sideloading in the OneDrive Folder: Alert on the creation or modification of wtsapi32.dll under %LocalAppData%\Microsoft\OneDrive\, and on any process abruptly terminating OneDrive. The two events together are a strong signal, because legitimate OneDrive updates do not arrive this way.



Restrict Execution from User Writable Paths: Payloads land in %LocalAppData% and the Windows temporary directory under names such as pld.exe. Application control policies that prevent execution from these locations break the second stage delivery step even after the backdoor is running.



Monitor Thread Creation in Trusted System Modules: The injection command writes shellcode into the text section of a loaded winspool.drv and starts a thread there. Endpoint tooling should treat thread creation pointing into a modified section of a signed system module as a high-fidelity indicator.



Potential MITRE ATT&CK TTPs

Tactic	Technique	Sub-technique
Initial Access	T1566 : Phishing	
Execution	T1204 : User Execution	T1204.004 : Malicious Copy and Paste
	T1059 : Command and Scripting Interpreter	T1059.003 : Windows Command Shell
	T1106 : Native API	
Defense Evasion	T1027 : Obfuscated Files or Information	
	T1140 : Deobfuscate/Decode Files or Information	
	T1574 : Hijack Execution Flow	T1574.001 : DLL
	T1055 : Process Injection	
	T1070 : Indicator Removal	T1070.004 : File Deletion
Discovery	T1033 : System Owner/User Discovery	
	T1082 : System Information Discovery	
	T1016 : System Network Configuration Discovery	
	T1018 : Remote System Discovery	
	T1069 : Permission Groups Discovery	T1069.002 : Domain Groups
	T1083 : File and Directory Discovery	
	T1518 : Software Discovery	

Tactic	Technique	Sub-technique
Discovery	<u>T1120</u> : Peripheral Device Discovery	
Collection	<u>T1005</u> : Data from Local System	
Command and Control	<u>T1071</u> : Application Layer Protocol	<u>T1071.001</u> : Web Protocols
	<u>T1102</u> : Web Service	<u>T1102.002</u> : Bidirectional Communication
	<u>T1105</u> : Ingress Tool Transfer	
	<u>T1571</u> : Non-Standard Port	
Exfiltration	<u>T1567</u> : Exfiltration Over Web Service	<u>T1567.001</u> : Exfiltration to Code Repository
Impact	<u>T1486</u> : Data Encrypted for Impact	

✂ Indicators of Compromise (IOCs)

TYPE	VALUE
SHA256	f96ff2f3abbbff7f382ace509b90e54853b4b61c402ecde27d82f1c17b414867b, 20675a659c338f7267fd09bacb431f4491f061d3acf42d07aca2dec3d25fa549, f59f32c9af4fa8a5dbd4668df8893593bc0c4324816cbf9b956acedcbfb8cd b6
IPv4:Port	45[.]158[.]196[.]23[:]:8888, 45[.]158[.]196[.]184[:]:8888

🔗 References

<https://www.zscaler.com/blogs/security-research/c2looper-new-backdoor-likely-tied-ransomware-github-c2>

What Next?

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