

Threat Level



Hiveforce Labs

THREAT ADVISORY

X ATTACK REPORT

Decoding Bronze Starlight's Strategy in the Gambling Sector

Date of Publication

August 18, 2023

Admiralty Code

A2

TA Number

TA2023337

Summary

Attack Began: August 2023 Malware: HUI Loader variants

Threat Actor: Bronze Starlight (aka DEV-0401, Cinnamon Tempest, SLIME34, Emperor

Dragonfly)

Attack Region: Southeast Asia
Targeted Industry: Gambling sector

Affected Platform: Windows, Linux, macOS

Attack: A cyberattack campaign stemming from China is currently focusing its efforts on the Southeast Asian gambling industry, with the objective of deploying Cobalt Strike

beacons on compromised systems.

X Attack Regions



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Attack Details

#1

An alleged instance of Chinese malware and infrastructure is suspected to be associated with operations originating in China and targeted toward the gambling sector in Southeast Asia. The evidence indicates the potential involvement of the China-aligned BRONZE STARLIGHT group. The threat actors exploit vulnerabilities in Adobe Creative Cloud, Microsoft Edge, and McAfee VirusScan executables, utilizing DLL hijacking to deploy Cobalt Strike beacons.

#2

These attacks are characterized by their utilization of customized installers for chat programs, which serve to download a .NET malware loader. This loader is configured to retrieve a second-stage ZIP archive from Alibaba buckets. Inside this ZIP file, an executable vulnerable to DLL search order hijacking coexists alongside a malicious DLL. The execution of the loader is facilitated by the side-loading technique, capitalizing on executables susceptible to DLL hijacking. This approach orchestrates the deployment of a payload enclosed within an encrypted file.

Remarkably, the loaders exhibit the behavior of terminating their execution if they are run on machines situated in countries such as the United States, Germany, France, Russia, India, Canada, or the United Kingdom. The primary objective appears to be espionage, rather than financial gains. The DLL files that are side-loaded are variants of the HUI Loader. This custom malware loader has found widespread use among China-based groups, including APT10, Bronze Starlight, and TA410.

Recommendations

Implement robust encryption for data at rest and in transit, enforce multifactor authentication and strict access controls to limit system access to authorized personnel, and bolster security through advanced endpoint protection to thwart unauthorized access and malware threats.

Consider segmenting networks to isolate critical systems, reducing the attack surface and containing the impact of potential compromises on less critical assets.



Utilize behavior-based analysis tools capable of detecting unusual activities on endpoints. Implement application whitelisting or control mechanisms to permit the execution of authorized applications exclusively on systems.

Potential MITRE ATT&CK TTPs

TA0002 Execution	TA0003 Persistence	TA0004 Privilege Escalation	TA0005 Defense Evasion
TA0007 Discovery	TA0009 Collection	TA0011 Command and Control	T1053 Scheduled Task/Job
T1129 Shared Modules	T1574 Hijack Execution Flow	T1574.002 DLL Side-Loading	T1027 Obfuscated Files or Information
T1027.002 Software Packing	T1036 Masquerading	T1070.006 Timestomp	T1140 Deobfuscate/Decode Files or Information
T1497 Virtualization/Sandbo x Evasion	T1562.001 Disable or Modify Tools	T1010 Application Window Discovery	T1012 Query Registry
T1057 Process Discovery	T1083 File and Directory Discovery	T1560 Archive Collected Data	T1071 Application Layer Protocol
T1095 Non-Application Layer Protocol	T1573 Encrypted Channel	T1018 Remote System Discovery	T1082 System Information Discovery

✗ Indicators of Compromise (IOCs)

ТҮРЕ	VALUE
SHA1	09f82b963129bbcc6d784308f0d39d8c6b09b293, 1a11aa4bd3f2317993cfe6d652fbe5ab652db151, 32b545353f4e968dc140c14bc436ce2a91aacd82, 4b79016d11910e2a59b18275c786682e423be4b4, 559b4409ff3611adaae1bf03cbadaa747432521b, 57bbc5fcfd97d25edb9cce7e3dc9180ee0df7111, 6e9592920cdce90a7c03155ef8b113911c20bb3a, 76bf5ab6676a1e01727a069cc00f228f0558f842, 88c353e12bd23437681c79f31310177fd476a846, 957e313abaf540398af47af367a267202a900007

ТҮРЕ	VALUE
URLs	hxxps[://]agenfile.oss-ap-southeast- 1[.]aliyuncs.com/agent_source/temp1/cefhelper.zip, hxxps[://]agenfile.oss-ap-southeast- 1.aliyuncs.com/agent_source/temp2/agent_bak.zip, hxxps[://]agenfile.oss-ap-southeast- 1.aliyuncs.com/agent_source/temp3/adobe_helper.zip, hxxps[://]codewavehub.oss-ap-southeast- 1.aliyuncs[.]com/org/com/file/CodeVerse.zip
Domains	tencentchat[.]net, kaspresksy[.]com, www.100helpchat[.]com, miscrosofts[.]com, microupdate[.]xyz, microsofts[.]org, microsofts[.]net, microsofts[.]info, microsofts[.]com, microsofts[.]com, duckducklive[.]top, 100helpchat[.]com
IPv4	8.218.31[.]103, 47.242.72[.]118

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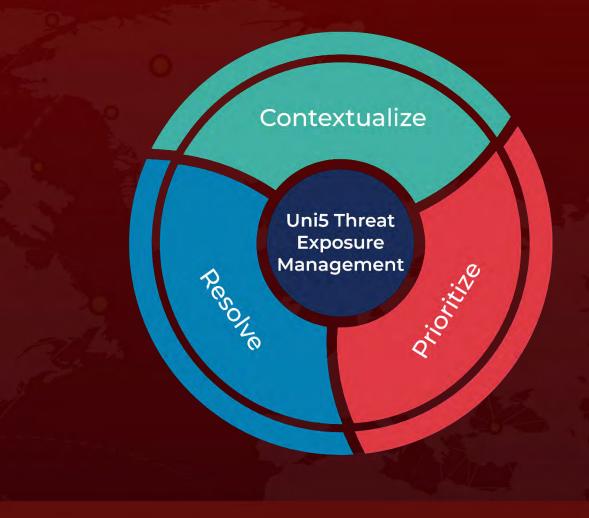
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https://www.hivepro.com/bronze-starlight-uses-loader-malware-to-deploy-ransomware/

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